Profile Summary

Generated 13-Jun-2020 13:45:42 using performance time.

Function Name	Calls	Total Time	Self Time*
main_obj_comparison	1	740.957 s	0.054 s
optimization_M_one_against_one_BCD	10	740.752 s	0.002 s
...n_M_one_against_one_binary_R_Block_CD	10	740.750 s	0.022 s
...tion_M_MLjournal_subgraph_1sbb2f_time	10	740.720 s	45.846 s
linprog	19649	384.599 s	6.969 s
...riorPoint>LinprogInteriorPoint.run	19649	349.416 s	0.358 s
iplp	19649	338.047 s	0.744 s
optim\private\interiorPointLPmex (MEX-file)	19649	334.783 s	334.783 s
...lock_ns_cell_MLjournal_subgraph_gs_ws	9583	311.601 s	75.145 s
...ock_ns_cell_MLjournal_subgraph_gs_ws2	9583	302.631 s	68.988 s
...ns_cell_MLjournal_subgraph_FULL_gs_ws	4	77.106 s	8.370 s
optimization_M_scalars	1176	64.923 s	31.742 s
gurobi_test	8	46.204 s	0.389 s
gurobi (MEX-file)	8	45.814 s	45.814 s
optimization_M_NR	10074	41.137 s	0.153 s
optimization_M_gamma_M_lc	22025	34.333 s	27.683 s
optimization_M_lobpcg	1186	33.800 s	31.604 s
...edLinear.performExitflagAndMsgActions	19649	11.011 s	0.343 s
...eneralizedLinear.createExitflagAndMsg	19649	9.895 s	2.496 s

Total Time Plot (dark band = self time)
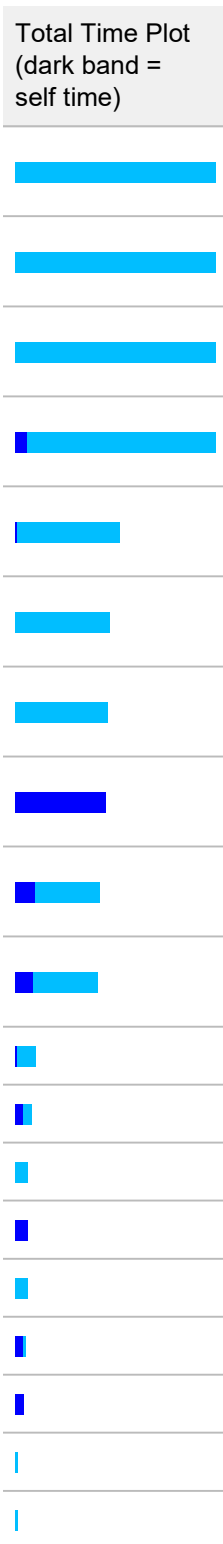
optimoptions	19659	8.764 s	0.199 s
createSolverOptions	19659	8.566 s	1.834 s
SolverOptions>SolverOptions.setProperty	117914	8.036 s	0.734 s
...t>LinprogInteriorPoint.getExitInfo	19649	7.400 s	0.648 s
Linprog>Linprog.Linprog	19659	6.732 s	0.218 s
optimization_M_set_step_gradient	22025	6.650 s	6.650 s
optimization_M_gamma_M_lc_NR	2098	6.633 s	2.556 s
...ithm>MultiAlgorithm.MultiAlgorithm	19659	6.514 s	0.133 s
...ptions>SolverOptions.SolverOptions	19659	6.381 s	2.250 s
...lizedLinear.getOptionValueAndFeedback	39298	5.367 s	2.110 s
checkfield	117934	4.995 s	1.482 s
...dLinear>GeneralizedLinear.checkRun	19649	4.378 s	0.162 s
...rithm>MultiAlgorithm.set.Algorithm	19659	4.120 s	1.850 s
...ear>GeneralizedLinear.checkProblem	19649	4.118 s	0.170 s
optimization_M_set_step_NR	2098	4.077 s	4.077 s
checkfield>prepareStringValue	117934	3.187 s	0.419 s
optimization_M_gamma_GD	1877	2.787 s	0.019 s
num2str	39392	2.692 s	0.522 s
prepareOptionsForSolver	19649	2.690 s	0.155 s
checkbounds	39298	2.440 s	2.440 s
lsml_gradient	10142	2.428 s	2.428 s
...>SolverOptions.setPropertyNoChecks	117934	2.310 s	2.310 s
...SolverOptions.extractOptionsStructure	39298	2.178 s	0.326 s
num2str>handleNumericPrecision	39334	2.167 s	0.166 s
Linprog>Linprog.set.Diagnostics	19649	2.035 s	0.438 s
num2str>convertUsingRecycledSprintf	39334	2.001 s	2.001 s
...Linprog.extractCustomOptionsStructure	39298	1.852 s	0.260 s
checkLinearConstraints	19649	1.841 s	0.310 s
optimget	176841	1.823 s	0.740 s

lsml_obj	14381	1.780 s	1.780 s
Linprog>Linprog.set.Display	19659	1.667 s	0.315 s
checkBoundConstraints	19649	1.616 s	0.257 s
...gorithm.extractCustomOptionsStructure	39298	1.592 s	0.927 s
Linprog>Linprog.createAlgorithm	19649	1.495 s	0.915 s
checkfield>isCaseSensitiveField	117934	1.386 s	0.442 s
+algorithm\private\createCSHLinks	78596	1.385 s	1.385 s
checkfield>deblankString	58967	1.381 s	0.280 s
rmfield	39299	1.358 s	1.358 s
Linprog>Linprog.set.TolCon	19649	1.286 s	0.289 s
mean	108256	1.285 s	1.043 s
Linprog>Linprog.set.MaxIter	19649	1.268 s	0.272 s
...ons>SolverOptions.convertForSolver	19649	1.180 s	1.180 s
Linprog>Linprog.set.TolFun	19649	1.153 s	0.274 s
strip	58967	1.101 s	0.875 s
optimget>optimgetfast	176841	1.083 s	1.083 s
isoptimargdbl	78596	0.972 s	0.972 s
checkLinearConstraints>i_isSolver	19649	0.956 s	0.114 s
cell.ismember	117934	0.944 s	0.944 s
cond	108246	0.914 s	0.914 s
SolverOptions>SolverOptions.isSetByUser	157192	0.859 s	0.859 s
createProblemStruct	19649	0.842 s	0.842 s
iplp>i_unwrapInternalOptions	19649	0.667 s	0.161 s
+algorithm\private\removeHTMLTags	19649	0.628 s	0.628 s
optimization_M_initialization	10	0.621 s	0.621 s
...rogInteriorPoint.LinprogInteriorPoint	19649	0.474 s	0.410 s
checkLinearObjective	19649	0.425 s	0.198 s
mean>mysize	108256	0.242 s	0.242 s
checkfield>stringsType	58967	0.200 s	0.200 s

iplp>i_createOutputStructure	19649	0.179 s	0.179 s
...Constraints>i_checkConstraintSizes	19649	0.175 s	0.175 s
str...te\convertStringToOriginalTextType	58967	0.161 s	0.161 s
Linprog>Linprog.get.Display	19657	0.145 s	0.145 s
Linprog>Linprog.get.TolFun	19649	0.137 s	0.137 s
...nts>i_ensureEmptyConHasCorrectSize	19649	0.118 s	0.118 s
...inear>GeneralizedLinear.getNumVars	39298	0.114 s	0.114 s
Linprog>Linprog.get.TolCon	19649	0.113 s	0.113 s
...rithm>MultiAlgorithm.get.Algorithm	19649	0.107 s	0.107 s
importdata	1	0.103 s	0.006 s
Linprog>Linprog.setInternalOptions	19649	0.096 s	0.096 s
importdata>LocalTextRead	1	0.080 s	0.003 s
checkfield>nonNegReal	39318	0.075 s	0.075 s
strfun\private\isTextStrict	58967	0.066 s	0.066 s
...t;SolverOptions.replaceSpecialStrings	39298	0.065 s	0.065 s
...>SolverOptions.mapOptionsForSolver	39298	0.065 s	0.065 s
...t;GeneralizedLinear.GeneralizedLinear	19649	0.064 s	0.064 s
importdata>parse	1	0.063 s	0.003 s
...hm>MultiAlgorithm.mapAlgorithmName	19659	0.056 s	0.056 s
checkLinearConstraints>i_checkRealCoeffs	19649	0.053 s	0.053 s
checkfield>nonNegInteger	19649	0.052 s	0.052 s
Linprog>Linprog.checkOptions	19649	0.051 s	0.051 s
importdata>analyze	1	0.039 s	0.002 s
importdata>isvaliddata	1	0.037 s	0.002 s
importdata>maxNotData	1	0.033 s	0.004 s
importdata>isdata	2002	0.029 s	0.029 s
crossvalind	1	0.019 s	0.005 s
importdata>readData	1	0.019 s	0.013 s
rng	13	0.017 s	0.002 s

finfo	1	0.015 s	0.008 s
grp2idx	1	0.012 s	0.001 s
grp2idx	1	0.011 s	0.002 s
...tion_M_one_against_one_voting_1_and_2	10	0.008 s	0.004 s
optimization_M_LP_A_setting	10	0.007 s	0.007 s
importdata>fixLineEndings	2	0.007 s	0.007 s
std	30	0.007 s	0.002 s
collectOutput	1	0.006 s	0.001 s
unique	1	0.006 s	0.004 s
rng>getCurrentType	13	0.006 s	0.002 s
...m.RandStream>RandStream.RandStream	13	0.006 s	0.004 s
lsml_S_D	10	0.005 s	0.005 s
var	30	0.005 s	0.004 s
fileread	1	0.004 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
...ization_M_one_against_one_voted_label	10	0.003 s	0.003 s
grp2idx>toString	1	0.003 s	0.002 s
...dStream>RandStream.setGlobalStream	13	0.003 s	0.000 s
iofun\private\guessdelim	1	0.003 s	0.003 s
finfo>getExtension	1	0.003 s	0.001 s
int2str	58	0.003 s	0.003 s
collectOutput>getTypesLengths	1	0.003 s	0.003 s
fileparts	3	0.002 s	0.002 s
RandStream.RandStream>RandStream.subsref	13	0.002 s	0.002 s
ops\private\uniquelegacy	1	0.002 s	0.002 s
strmatch	1	0.002 s	0.002 s
collectOutput>mergeColumns	1	0.002 s	0.002 s

...dStream>RandStream.getGlobalStream	13	0.002 s	0.000 s
strtok	1	0.002 s	0.001 s
importdata>TrimTrailing	1	0.002 s	0.001 s
RandStream.RandStream>getargs	13	0.002 s	0.002 s
...tion_M_one_against_one_binary_results	10	0.001 s	0.001 s
importdata>split	1	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
optimization_M_oao_vae	10	0.001 s	0.001 s
optimization_M_confusion_matrix_setting	10	0.001 s	0.001 s
intmax	2	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
importdata>getLines	2	0.001 s	0.001 s
xlsreadSupportedExtensions	3	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	8	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 function.
Self time also includes overhead resulting from the process of profiling.

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