Profile Summary

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

main_obj_comparison 1 64.702 s optimization_M_one_against_one_BCD 10 63.840 s n_M_one_against_one_binary_R_Block_CD 10 63.837 s tion_M_MLjournal_subgraph_1sbb2f_time 10 63.647 s linprog 10032 45.377 s riorPoint>LinprogInteriorPoint.run 10032 30.088 s lock_ns_cell_MLjournal_subgraph_gs_ws 5000 28.313 s ock_ns_cell_MLjournal_subgraph_gs_ws 5000 27.677 s iplp 10032 25.018 s optim\private\interiorPointLPmex (MEX-file) 10032 23.592 s optimization_M_gamma_GD 5043 6.424 s optimization_M_gamma_M_lc 13042 6.350 s	0.403 s 0.003 s 0.147 s 0.900 s 3.215 s 0.143 s
optimization_M_one_against_one_BCD 10 s n_M_one_against_one_binary_R_Block_CD 10 63.837 s tion_M_MLjournal_subgraph_1sbb2f_time 10 63.647 s linprog 10032 45.377 s riorPoint>LinprogInteriorPoint.run 10032 30.088 s lock_ns_cell_MLjournal_subgraph_gs_ws 5000 28.313 s ock_ns_cell_MLjournal_subgraph_gs_ws2 5000 27.677 s iplp 10032 25.018 s optim\private\interiorPointLPmex (MEX-file) 10032 23.592 s optimization_M_gamma_GD 5043 6.424 s optimization_M_gamma_M_lc 13042 6.350 s	0.147 s 0.900 s 3.215 s 0.143 s
ion M_MLjournal_subgraph_1sbb2f_time 10 63.647 s linprog 10032 45.377 s riorPoint>LinprogInteriorPoint.run 10032 30.088 s lock_ns_cell_MLjournal_subgraph_gs_ws 5000 27.677 s iplp 10032 25.018 s optim\private\interiorPointLPmex (MEX-file) 10032 23.592 s optimization_M_gamma_GD 5043 6.424 s optimization_M_gamma_M_lc 13042 6.350 s	0.900 s 3.215 s 0.143 s
Linprog 10032 45.377 s Linprog 10032 30.088 s riorPoint>LinprogInteriorPoint.run 10032 30.088 s lock_ns_cell_MLjournal_subgraph_gs_ws 5000 28.313 s ock_ns_cell_MLjournal_subgraph_gs_ws 5000 27.677 s iplp 10032 25.018 s optim\private\interiorPointLPmex (MEX-file) 10032 23.592 s optimization_M_gamma_GD 5043 6.424 s optimization_M_gamma_M_lc 13042 6.350 s	3.215 s
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lock_ns_cell_MLjournal_subgraph_gs_ws 5000 sock_ns_cell_MLjournal_subgraph_gs_ws2 5000 s iplp 10032 25.018 s optim\private\interiorPointLPmex (MEX-file) 10032 s optimization_M_gamma_GD 5043 6.424 s optimization_M_gamma_M_lc 13042 6.350 s	1.695 s
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optim\private\interiorPointLPmex (MEX-file) optimization M gamma GD optimization M gamma M lc 10032 s 23.592 s optimization M gamma GD 5043 6.424 s optimization M gamma M lc 13042 6.350 s	1.339 s
optimization_M_gamma_M_lc 10032 s optimization_M_gamma_M_lc 13042 6.350 s	0.260 s
optimization_M_gamma_M_lc 13042 6.350 s	23.592 s
	0.074 s
adlinear perform Evittler And Mar Actions 10022 4 020 a	1.555 s
<u>edLinear.performExitflagAndMsgActions</u> 10032 4.928 s	0.151 s
Imnn_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	
<u>optimoptions</u> 10042 3.737 s	0.345 s
<u>createSolverOptions</u> 10042 3.659 s	0.345 s 0.078 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
<u>prepareOptionsForSolver</u>	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
<u>optimget</u>	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
<u>checkLinearConstraints</u>	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
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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
<u>cell.ismember</u>	60232	0.472 s	0.472 s
<u>isoptimargdbl</u>	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
<u>createProblemStruct</u>	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
<u>checkLinearObjective</u>	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
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strte\convertStringToOriginalTextType 30116 0.074 s 0.074 s 0.074 s plp≥i_createOutputStructure 10032 0.072 s 0.064 s 0.064 s 0.064 s 0.064 s 0.061 s 0.051 s 0.050 s 0.	importdata>readData	1	0.077 s	0.070 s
pip>i_createOutputStructure 10032 0.072 s 0.072 s Linprog>Linprog.get.Display 10043 0.064 s 0.064 s Linprog>Linprog.get.TolEun 10032 0.061 s 0.061 s Linprog>Linprog.get.TolCon 10032 0.051 s 0.051 s Linprog>Linprog.get.TolCon 10032 0.050 s 0.050 s Linprog>Linprog.get.TolCon 5899 0.050 s 0.050 s Linprog>Linprog.get.TolCon 10032 0.050 s 0.050 s Linprog>Linprog.get.TolCon 5899 0.050 s 0.050 s Linprog>Linprog.get.TolCon 10032 0.046 s 0.046 s Linprog>Linprog.get.TolCon 10032 0.046 s 0.044 s Linprog>Linprog.get.TolCon 10032 0.048 s 0.044 s Liton Mone_against_one_voting_1 and_2 10 0.038 s 0.034 s <	mean	5926	0.074 s	0.060 s
Linprog>Linprog.get.Display Linprog>Linprog.get.Display Linprog>Linprog.get.TolFun Linprog>Linprog.get.TolFun Linprog>Linprog.get.TolFun Linprog>Linprog.get.TolCon Linprog>Linprog.linprog.get.TolCon Linprog>Linprog.linprog	strte\convertStringToOriginalTextType	30116	0.074 s	0.074 s
Linprog>Linprog.get.TolFun 10032 0.061 s 0.061 sinear>GeneralizedLinear.getNumVars 20064 0.051 s 0.051 snts>i_ensureEmptyConHasCorrectSize 10032 0.050 s 0.050 snts>i_ensureEmptyConHasCorrectSize 10032 0.050 s 0.050 sinthm>MultiAlgorithm.get.Algorithm 10032 0.046 s 0.046 sinprog>Linprog.setInternalOptions 10032 0.044 s 0.044 sinprog>Linprog.setInternalOptions 10032 0.044 s 0.044 sition_M_one_against_one_voting_1_and_2 10 0.038 s 0.008 sition_M_one_against_one_binary_results 10 0.037 s 0.037 sition_M_one_against_one_binary_results 10 0.033 s 0.033 sition_M_initialization 10 0.033 s 0.033 sition_M_one_against_one_binary_results 10 0.030 s 0.024 ssolverOptions.mapOptionsForSolver 20064 0.028 s 0.028 st:GeneralizedLinear.GeneralizedLinear 10032 0.026 s 0.028 st:GeneralizedLinear.GeneralizedLinear 10032 0.024 s 0.024 st:SolverOptions.replaceSpecialStrings 20064 0.025 s 0.025 st:SolverOptions.replaceSpecialStrings 20064 0.024 s 0.024 st:SolverOptions.replaceSpecialStrings 20064 0.025 s 0.026 st:SolverOptions.replaceSpecialStrings 20064 0.024 s 0.024 st:SolverOptions.replaceSpecialStrings 20064 0.025 s 0.026 st:SolverOptions.replaceSpecialStrings 20064 0.025 s 0.026 st:SolverOptions.replaceSpecialStrings 20064 0.025 s 0.024 st:SolverOptions.replaceSpecialStrings 20064 0.023 s 0.023 st:SolverOptions.replaceSpecialStrings 20064 0.024 s 0.024 st:SolverOptions.replaceSpecialStrings 20064 0.025 s 0.026 st:SolverOptions.replaceSpecialStrings 20064 0.022 s 0.022 st:SolverOptions.replaceSpec	iplp>i_createOutputStructure	10032	0.072 s	0.072 s
inear>GeneralizedLinear.getNumVars 20064 0.051 s 0.051 s inprog>Linprog.get.TolCon 10032 0.051 s 0.050 s nts>i_ensureEmptyConHasCorrectSize 10032 0.050 s 0.050 s ond 5899 0.050 s 0.050 s rithm>MultiAlgorithm.get.Algorithm 10032 0.046 s 0.046 s inprog>Linprog.setInternalOptions 10032 0.044 s 0.044 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 tion M_one_against_one_binary_results 10 0.034 s 0.034 s tion M_one_against_one_binary_results 10 0.034 s 0.034 s tion M_one_against_one_binary_results 10 0.034 s 0.034 s tifun\private\is_TextStrict 30116 0.029 s 0.029 s tifun\private\is_TextStrict 30116 0.029 s 0.028 s tigeneralizedLinear.GeneralizedLinear 10032 0.026 s 0.028 s tigeneralizedLinear.GeneralizedLinear 10032 0.024 s 0.024 s <td>Linprog>Linprog.get.Display</td> <td>10043</td> <td>0.064 s</td> <td>0.064 s</td>	Linprog>Linprog.get.Display	10043	0.064 s	0.064 s
Linprog>Linprog.get.TolCon Linprog>Linprog.get.TolCon Linprog>Linprog.get.TolCon Linprog>Linprog.get.TolCon Linprog>Linprog.get.TolCon Linprog>Linprog.get.TolCon Linprog>Linprog.get.TolCon Linprog>Linprog.get.Algorithm Linprog>Linprog.get.Algorithm Linprog>Linprog.get.Algorithm Linprog>Linprog.get.InternalOptions Linprog>Linprog.get.InternalOptions Linprog>Linprog.get.Linprog	Linprog>Linprog.get.TolFun	10032	0.061 s	0.061 s
nts>i_ensureEmptyConHasCorrectSize	inear>GeneralizedLinear.getNumVars	20064	0.051 s	0.051 s
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rithm>MultiAlgorithm.get.Algorithm 10032 0.046 s 0.046 s inprog>Linprog.setInternalOptions 10032 0.044 s 0.044 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 tion_M_one_against_one_binary_results 10 0.037 s 0.034 s tion_M_one_against_one_binary_results 10 0.034 s 0.034 s tion_M_one_against_one_binary_results 10 0.034 s 0.034 s tion_M_one_against_one_binary_results 10 0.034 s 0.034 s tifun\private\is_TextStrict 30116 0.033 s 0.033 s >SolverOptions.mapOptionsForSolver 20064 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 t;SolverOptions.replaceSpecialStrings 20064 0.024 s 0.024 s hm>MultiAlgorithm.mapAlgorithmName 10042 0.024 s 0.024 s hm>MultiAlgorithm.get.checkOptions 10032	nts>i_ensureEmptyConHasCorrectSize	10032	0.050 s	0.050 s
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tion_M_one_against_one_voting_1_and_2	Linprog>Linprog.setInternalOptions	10032	0.044 s	0.044 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 mnn_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 t;GeneralizedLinear.GeneralizedLinear 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 mnn_obj>vec 15978 0.024 s 0.024 s hm>MultiAlgorithm.mapAlgorithmName 10042 0.024 s 0.024 s hm>MultiAlgorithm.cendings 2 0.024 s 0.024 s heckLinearConstraints>i_checkRealCoeffs 10032 0.023 s 0.023 s inprog>Linprog.checkOptions 10032 0.022 s 0.022 s	general\private\parsedirs	10	0.042 s	0.041 s
checkfield>nonNegReal 20084 0.034 s 0.034 s optimization_M_initialization 10 0.033 s 0.033 s mnn_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 hm>MultiAlgorithm.mapAlgorithmName 10042 0.024 s 0.024 s hm>MultiAlgorithm.mapAlgorithmName 10042 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	tion_M_one_against_one_voting_1_and_2	10	0.038 s	0.008 s
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checkLinearConstraints>i_checkRealCoeffs 10032 0.023 s 0.023 s Linprog>Linprog.checkOptions 10032 0.022 s 0.022 s	hm>MultiAlgorithm.mapAlgorithmName	10042	0.024 s	0.024 s
Linprog>Linprog.checkOptions 10032 0.022 s 0.022 s	importdata>fixLineEndings	2	0.024 s	0.024 s
	checkLinearConstraints>i_checkRealCoeffs	10032	0.023 s	0.023 s
<u>crossvalind</u> 1 0.021 s 0.005 s	Linprog>Linprog.checkOptions	10032	0.022 s	0.022 s
	crossvalind	1	0.021 s	0.005 s

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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	
<u>std</u>	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	

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.

ctions.