

Profile Summary (Total time: 1819.347 s)

Generated 12-Feb-2024 20:47:09 using performance time.

Function Name	Calls	Total Time (s) ↓	Self Time* (s)	Total Time Plot (dark band = self time)
EvaluationOutputsService>EvaluationOutputsService.evalRegions	1	1819.347	0.000	
evaluateRegions	1	1819.347	0.001	
LiveEditorEvaluationHelperEeditor12C9BD19motw	1	1819.346	0.001	
NL_OPF_dist2	1	1819.345	0.051	
fmincon	1	1819.147	0.030	
sqpInterface	1	1819.055	794.013	
computeFinDiffGradAndJac	72	1023.031	0.009	
finitedifferences	72	1023.021	5.593	
finDiffEvalAndChkErr	319104	1016.878	7.890	
...nLinEqualities(x,simInfo,arealInfo,T,'verbose',false,'saveToFile',false)	319202	754.666	2.139	
NonLinEqualities	319202	752.527	456.952	
getIndicesT	251850378	284.029	284.029	
...@(x)objfun(x,simInfo,sysInfo,arealInfo,T,'objectiveFuns',objectiveFuns)	319202	254.719	1.835	
objfun	319202	252.884	165.438	
generateRangesFromValuesT	957606	55.897	55.897	
myfprintf	41496260	43.095	43.095	
OutputsManager>@(varargin)obj.streamOutputsCallback(varargin{:})	649	1.617	0.005	
OutputsManager>OutputsManager.streamOutputsCallback	649	1.612	0.097	
OutputsManager>OutputsManager.notifyFlushOutputs	649	1.006	0.008	
...nOutputsService,outputStreamEvent(src,ev.editorId,requestId,filePath)	649	0.997	0.005	
...aluationOutputsService>EvaluationOutputsService.outputStreamEvent	649	0.993	0.025	
OutputPackager>OutputPackager.packageOutputs	649	0.778	0.013	
OutputPackager>OutputPackager.packageEachOutput	649	0.763	0.065	
OutputPackager>OutputPackager.packageOneOutput	6989	0.699	0.148	
fwdFinDiffInsideBnds	319104	0.545	0.545	
OutputsManager>OutputsManager.flushAllOutputEvents	649	0.318	0.005	
OutputsManager>OutputsManager.collectEvents	649	0.313	0.009	
OutputEventPreprocessor>OutputEventPreprocessor.flushEvents	649	0.207	0.185	
OutputUtilities>OutputUtilities.getLineNumberForExecutingFileFrame	6989	0.203	0.203	
StdoutOutputPackager>StdoutOutputPackager.packageOutput	6987	0.164	0.089	
writematrix	1	0.132	0.003	
publish	649	0.126	0.126	
FigureManager>FigureManager.processPendingDrawnow	649	0.122	0.006	
VariableOutputPackager>VariableOutputPackager.packageOutput	2	0.110	0.004	
OutputsManager>OutputsManager.addOutputEventsToBatch	649	0.097	0.097	
VariableOutputPackager>VariableOutputPackager.packageVarNumeric	1	0.090	0.001	
..._VariablesPackager>InteractiveVariablesPackager.packageVarNumeric	1	0.089	0.001	
...eNumericsPackager>InteractiveNumericsPackager.packageVarMatrix	1	0.088	0.006	
writetable	1	0.082	0.008	
StdoutOutputPackager>StdoutOutputPackager.applyStdOutSizeLimits	6987	0.075	0.075	

OutputPackager>OutputPackager.createOutput	6989	0.075	0.056	
EODataStore>EODataStore.getEditorMap	1302	0.070	0.040	
writeTextFile	1	0.065	0.009	
EODataStore>EODataStore.getRootField	650	0.065	0.017	
EODataStore>EODataStore.getEditorField	651	0.052	0.015	
...iewModel>RemoteNumericArrayViewModel.getJSONForNumericData	1	0.044	0.007	
table.table>table.table	1	0.040	0.005	
EODataStore>EODataStore.getEditorSubMap	652	0.036	0.014	
ExecutionStateTracker>ExecutionStateTracker.getNextOutputBatchId	649	0.036	0.026	
...mericPackager>InteractiveNumericsPackager.getVariableOutputData	1	0.034	0.005	
EODataStore>EODataStore.getCoreMap	1302	0.030	0.030	
ExecutionStateTracker>ExecutionStateTracker.notifyOutputBatchSent	649	0.028	0.022	
writeTextFile>writeBody	1	0.025	0.006	
LastWarningGuard>LastWarningGuard.LastWarningGuard	649	0.024	0.024	
createExitMsg	1	0.023	0.004	
OutputEventPreprocessor>OutputEventPreprocessor.process	6989	0.021	0.021	
OutputPackagerUtilities>OutputPackagerUtilities.formatForJsonArray	7638	0.020	0.020	
...ata>BatchedOutputEventsEventData.BatchedOutputEventsEventData	649	0.017	0.017	
PeerDataUtils>PeerDataUtils.getFormattedNumericData	1	0.017	0.005	
ExecutionStateTracker>ExecutionStateTracker.getInstance	1298	0.016	0.016	
...ovider>NumberDisplayFormatProvider.NumberDisplayFormatProvider	1	0.015	0.002	
tabular.tabular>tabular.initInternals	1	0.014	0.002	
string.strcat	4	0.014	0.005	
makeUniqueStrings	2	0.013	0.004	
FigureEventDisabler>FigureEventDisabler.FigureEventDisabler	649	0.013	0.005	
...mberDisplayFormatProvider>NumberDisplayFormatProvider.initFormat	1	0.012	0.010	
PeerDataUtils>PeerDataUtils.getDisplayDataAsString	2	0.012	0.004	
RemoteManager>RemoteManager.openvar	1	0.012	0.007	
tabularDimension>tabularDimension.createLike	2	0.011	0.001	
VariableUtilities>VariableUtilities.getHeader	2	0.010	0.001	
tabularDimension>tabularDimension.setLabels	2	0.010	0.002	
num2str	12	0.010	0.006	
FigureEventDisabler>FigureEventDisabler.delete	649	0.010	0.003	
varNamesDim>varNamesDim.createLike	1	0.010	0.001	
cell.strcat	4	0.009	0.008	
prepareOptionsForSolver	1	0.009	0.001	
parseArgs	4	0.009	0.009	
getHeader	2	0.008	0.002	
tabular.dotReference	3	0.008	0.004	
numericDisplay	2	0.008	0.007	
writeTextFile>validateLineEnding	1	0.008	0.001	
FigureEventDisabler>FigureEventDisabler.disable	649	0.008	0.008	
saveFminconSolution	77	0.008	0.008	
createExitMsg>msgArgs2Str	2	0.008	0.001	
metaDim>metaDim.checkAgainstVarLabels	1	0.007	0.001	

...3,varargin)saveFminconSolution(x1,x2,x3,tracker_id,TolCon,verbosity)	74	0.007	0.001	
varNamesDim>varNamesDim.validateAndAssignLabels	1	0.007	0.003	
...csPackager>InteractiveNumericsPackager.getChoppedStringFromVar	1	0.007	0.003	
writeTextFile>varPackParams	1	0.007	0.003	
FigureEventDisabler>FigureEventDisabler.restore	649	0.007	0.007	
errorIfXML	1	0.007	0.002	
SolverOptions>SolverOptions.extractOptionsStructure	1	0.007	0.001	
...Packager>InteractiveVariablesPackager.queueAsyncVariableCreation	1	0.007	0.001	
getHeader>getDoubleHeader	2	0.006	0.002	
writeTextFile>rowFormat	1	0.006	0.002	
nonzerosign	144	0.006	0.006	
Fmincon>Fmincon.extractCustomOptionsStructure	1	0.006	0.001	
LastWarningGuard>LastWarningGuard.delete	649	0.006	0.006	
makeUniqueStrings>makeUnique	2	0.006	0.006	
RemoteManager>RemoteManager.asyncDoDelayedDocumentCreation	1	0.005	0.001	
MultiAlgorithm>MultiAlgorithm.extractCustomOptionsStructure	1	0.005	0.003	
writeTextFile>numRowsPerChunk	1	0.005	0.001	
writeTextFile>variableTraits	1	0.005	0.001	
cell.unique	2	0.004	0.004	
RemoteManager>RemoteManager.addDocument	1	0.004	0.001	
TextInputs>TextInputs.set.LineEnding	1	0.004	0.001	
validatestring	2	0.004	0.002	
fmincon>addSolutionTracker	1	0.004	0.003	
...lesPackager>InteractiveVariablesPackager.getVariableEditorManager	2	0.004	0.001	
tabular.getProperty	1	0.004	0.003	
repelem	1	0.004	0.001	
getSQPOptions	1	0.004	0.003	
optimget	31	0.004	0.002	
createCellArrayOfFunctions	1	0.004	0.002	
writeTextFile>processChunk	2	0.003	0.002	
fileparts	3	0.003	0.002	
dimensionString	1	0.003	0.003	
FormatDataUtils>FormatDataUtils.getCurrentNumericFormat	1	0.003	0.003	
RemoteManager>RemoteManager.getNextDocID	1	0.003	0.001	
optimfcnchk	2	0.003	0.003	
VEFactory>VEFactory.createManager	2	0.003	0.002	
repelem	1	0.003	0.003	
isoptimargdbl	2	0.003	0.003	
validateAndEscapeCellStrings	2	0.003	0.001	
tabular.tabular>tabular.tabular	1	0.003	0.001	
mat2str	1	0.003	0.002	
repmat	1	0.002	0.001	
varNamesDim>varNamesDim.makeValidName	1	0.002	0.001	
writeTextFile>setVarTraitsByType	1	0.002	0.002	
tabular.size	3	0.002	0.002	

strip	1	0.002	0.001	
VariableOutputPackager>VariableOutputPackager.isolatedDisplaying	1	0.002	0.002	
num2str>strvrcat	4	0.002	0.001	
fmincon>checkSolutionTracker	1	0.002	0.001	
createCellArrayOfFunctions>isFcn	1	0.002	0.001	
closeAndORDelete	1	0.002	0.002	
validatestring>checkString	2	0.002	0.002	
checkbounds	1	0.002	0.002	
repmat	1	0.002	0.001	
...ormatProvider>NumberDisplayFormatProvider.set.NumDisplayFormat	1	0.002	0.002	
tabular.tabular>tabular.countVarInputs	1	0.002	0.001	
...lesPackager>InteractiveVariablesPackager.incrementDocumentCount	1	0.002	0.001	
executeCmd	1	0.002	0.001	
fileparts>legacyPCExecution	3	0.002	0.002	
Fmincon>Fmincon.replaceSpecialStrings	1	0.002	0.001	
replace	3	0.002	0.001	
ObjectiveSenseManager>ObjectiveSenseManager.setup	1	0.002	0.002	
strjust	4	0.002	0.001	
...eVariablesPackager>InteractiveVariablesPackager.isInteractiveOutput	1	0.001	0.001	
optimget>optimgetfast	13	0.001	0.001	
makeValidName	1	0.001	0.001	
...matDataUtils.restoreNumericFormat(currentFormat,hasTempFormat)	1	0.001	0.000	
cellstr	11	0.001	0.001	
TextInputs>TextInputs.getLineEnding	1	0.001	0.001	
makeUniqueStrings>validateExclStrOrElemToChk	2	0.001	0.001	
getNumericOrStringFieldValue	1	0.001	0.001	
validateFinDiffRelStep	1	0.001	0.001	
...ablesPackager>InteractiveVariablesPackager.isMaxInteractiveOutputs	1	0.001	0.001	
VariableOutputPackager>VariableOutputPackager.applySizeLimits	1	0.001	0.001	
writeTextFile>standardizeDelimiter	1	0.001	0.001	
int2str	8	0.001	0.001	
fcnchk	1	0.001	0.001	
isenum	3	0.001	0.001	
validateopts_UseParallel	73	0.001	0.001	
settings	4	0.001	0.000	
appendNewlineToEOFIfNeeded	1	0.001	0.001	
FormatDataUtils>FormatDataUtils.restoreNumericFormat	1	0.001	0.001	
writeTextFile>packVariables	2	0.001	0.001	
tabularDimension>tabularDimension.checkDuplicateLabels	1	0.001	0.001	
setOptimFcnHandleOnWorkers	1	0.001	0.001	
getHeader>getClassnameString	1	0.001	0.001	
numericDisplay>isValidSubNumericDataOrFormatter	2	0.001	0.001	
isCharString	5	0.001	0.001	
makeUniqueStrings>truncateString	2	0.001	0.001	
isScalarInt	5	0.001	0.001	

SolverOptions>SolverOptions.convertForSolver	1	0.001	0.001	
varNamesDim>varNamesDim.checkReservedNames	1	0.001	0.001	
isText	2	0.001	0.001	
rowNamesDim>rowNamesDim.validateAndAssignLabels	1	0.001	0.001	
strjust>strjustOnChar	4	0.001	0.001	
validateVariableNameLength	2	0.001	0.001	
writeTextFile>makeChunk	2	0.001	0.001	
...VariablesPackager>InteractiveVariablesPackager.getDocumentCount	2	0.001	0.000	
validatestring>checkInputs	2	0.001	0.001	
unescape	1	0.001	0.001	
num2str>cellPrintf	4	0.001	0.001	
str2double	1	0.001	0.001	
tabular.matchPropertyName	1	0.001	0.001	
partialMatchString	1	0.001	0.001	
TextInputs>TextInputs.TextInputs	1	0.001	0.000	
strfun\private\isTextStrict	4	0.001	0.001	
isScalarText	3	0.001	0.001	
validateWriteFunctionArgumentOrder	1	0.001	0.000	
writeTextFile>isTextOutputType	1	0.001	0.001	
strfun\private\convertStringToOriginalTextType	4	0.001	0.001	
getField	1	0.001	0.001	
EODataStore>EODataStore.setEditorField	1	0.001	0.001	
settings	4	0.001	0.001	
VariableUtilities>VariableUtilities.showHeader	2	0.001	0.001	
VEFactory>VEFactory.getManagerInstances	2	0.001	0.001	
VEFactory>VEFactory.getInstance	2	0.001	0.001	
tabular.isEmpty	1	0.001	0.001	
writeTextFile>setVarTraitsNumFields	1	0.000	0.000	
isEmptyFile	1	0.000	0.000	
ArrayViewModel>ArrayViewModel.getSettingRegistrationMap	1	0.000	0.000	
FormatDataUtils>FormatDataUtils.getVariableSize	1	0.000	0.000	
getSettingsRoot	2	0.000	0.000	
createFolderIfNotExisting	1	0.000	0.000	
getSetCmdExecutionTypeIdle	1	0.000	0.000	
tabularDimension>tabularDimension.assignLabels	1	0.000	0.000	
fmincon>@().saveFminconSolution(tracker_id)	1	0.000	0.000	
EncodingInput>EncodingInput.EncodingInput	1	0.000	0.000	
checkoptionsize	1	0.000	0.000	
FormatDataUtils>FormatDataUtils.getNumericValue	3	0.000	0.000	
SolverOptions>SolverOptions.isSetByUser	4	0.000	0.000	
writeTextFile>standardizeNumericVar	2	0.000	0.000	
table.table>table.propertyNames	1	0.000	0.000	
PeerUtils>PeerUtils.isLiveEditor	3	0.000	0.000	
createExitMsg>stripHTMLTags	3	0.000	0.000	
...ericsPackager>InteractiveNumericsPackager.getDataWithDataTipInfo	2	0.000	0.000	

Fmincon>Fmincon.get.FinDiffRelStep	1	0.000	0.000	
...eVariablesPackager>InteractiveVariablesPackager.IsTabularLikeTypes	1	0.000	0.000	
repmat>checkSizesType	2	0.000	0.000	
VariableOutputPackager>VariableOutputPackager.limitStringLength	1	0.000	0.000	
tabular.dotListLength	2	0.000	0.000	
RedefinesParen,RedefinesParen>RedefinesParen,RedefinesParen	1	0.000	0.000	
...odCall>OverridesPublicDotMethodCall.OverridesPublicDotMethodCall	1	0.000	0.000	
writeTextFile>getFopenPermissionsFromWriteMode	1	0.000	0.000	
isSupportedWriteMatrixType	1	0.000	0.000	
makeUniqueStrings>validateMaxStringLength	2	0.000	0.000	
replaceFinDiffRelStepString	1	0.000	0.000	
matricize	1	0.000	0.000	
mat2str>isenumeration	1	0.000	0.000	
...ormatProvider>NumberDisplayFormatProvider.get.NumDisplayFormat	2	0.000	0.000	
...otParen,RedefinesDotParen>RedefinesDotParen,RedefinesDotParen	1	0.000	0.000	
numericDisplay>isValidNumericData	2	0.000	0.000	
validateLogical	2	0.000	0.000	
tabularDimension>tabularDimension.checkReservedNamesImpl	1	0.000	0.000	
...tiveVariablesPackager>InteractiveVariablesPackager.IsTextLikeTypes	1	0.000	0.000	
writeTextFile>fixLogicalQuoteStrings	1	0.000	0.000	
numericDisplay>mustBeTwoDimensional	2	0.000	0.000	
istall	1	0.000	0.000	
saveLoadCompatibility>saveLoadCompatibility.saveLoadCompatibility	1	0.000	0.000	
RedefinesBrace,RedefinesBrace>RedefinesBrace,RedefinesBrace	1	0.000	0.000	
mustBeNumericOrLogical	2	0.000	0.000	
mustBeNonempty	2	0.000	0.000	
RedefinesDot,RedefinesDot>RedefinesDot,RedefinesDot	1	0.000	0.000	
HasAliases>HasAliases.HasAliases	1	0.000	0.000	
table,istable	1	0.000	0.000	
SolverOptions>SolverOptions.mapOptionsForSolver	1	0.000	0.000	

*Self time is the time spent in a function excluding any time spent in child functions. The time includes any overhead time resulting from the profiling process.