

## Profile Summary (Total time: 6.488 s)

Generated 20-maj-2024 11:20:28 using performance time.

Function Name	Calls	Total Time (s) ↓	Self Time* (s)	Total Time Plot (self time / total time)
<a href="#">uppgift a b final</a>	1	6.243	0.060	<div><div></div></div>
<a href="#">uppgift a b final&gt;RungeKutta</a>	12	6.124	1.548	<div><div></div></div>
<a href="#">...rt,k_y_pert,m_0_pert,bryttid_pert,F_max_pert,k_pert)</a>	3600000	3.776	2.188	<div><div></div></div>
<a href="#">uppgift a b final&gt;eDeriv</a>	4400000	1.936	1.936	<div><div></div></div>
<a href="#">...eDeriv(x_i,y_i,t,9.82,0.001,0.001,0.05,0.08,1,0.08)</a>	800000	0.800	0.452	<div><div></div></div>
<a href="#">...ceListener&gt;WorkspaceListener.workspaceUpdatedFromCPP</a>	2	0.245	0.001	<div><div></div></div>
<a href="#">WorkspaceListener&gt;WorkspaceListener.dispatchWSEvent</a>	2	0.244	0.001	<div><div></div></div>
<a href="#">...Listener&gt;WorkspaceListener.executeWorkspaceListeners</a>	2	0.243	0.004	<div><div></div></div>
<a href="#">...spaceDataModel&gt;MLWorkspaceDataModel.workspaceUpdated</a>	2	0.230	0.004	<div><div></div></div>
<a href="#">...kspaceDataModel&gt;MLWorkspaceDataModel.variableChanged</a>	1	0.209	0.009	<div><div></div></div>
<a href="#">...spaceDataModel&gt;MLWorkspaceDataModel.notifyVarChanged</a>	1	0.190	0.002	<div><div></div></div>
<a href="#">...ewModel&gt;@(e,d)this.handleDataChangedOnDataModel(e,d)</a>	1	0.188	0.000	<div><div></div></div>
<a href="#">...emoteStructureViewModel.handleDataChangedOnDataModel</a>	1	0.188	0.000	<div><div></div></div>
<a href="#">...odel&gt;StructureViewModel.handleDataChangedOnDataModel</a>	1	0.187	0.000	<div><div></div></div>
<a href="#">ViewModel&gt;ViewModel.handleDataChangedOnDataModel</a>	1	0.187	0.001	<div><div></div></div>
<a href="#">...ubTabularDataStore&gt;@(es,ed)this.handleDataChange(ed)</a>	1	0.186	0.000	<div><div></div></div>
<a href="#">...ArrayViewModel&gt;RemoteArrayViewModel.handleDataChange</a>	1	0.186	0.000	<div><div></div></div>
<a href="#">...larDataStore&gt;PubSubTabularDataStore.handleDataChange</a>	1	0.185	0.001	<div><div></div></div>
<a href="#">...larDataStore&gt;PubSubTabularDataStore.sendDataToClient</a>	1	0.183	0.001	<div><div></div></div>
<a href="#">...PubSubTabularDataStore.executeInBackgroundIfPossible</a>	1	0.181	0.004	<div><div></div></div>
<a href="#">...tore&gt;PubSubTabularDataStore.formatAndSendMessage</a>	1	0.176	0.000	<div><div></div></div>
<a href="#">...DataStore&gt;PubSubTabularDataStore.formatDataForClient</a>	1	0.174	0.004	<div><div></div></div>
<a href="#">ArrayViewModel&gt;ArrayViewModel.getTabularDataRange</a>	1	0.170	0.000	<div><div></div></div>
<a href="#">...ceViewModel&gt;RemoteWorkspaceViewModel.getRenderedData</a>	1	0.170	0.001	<div><div></div></div>
<a href="#">...ructureViewModel&gt;RemoteStructureViewModel.renderData</a>	1	0.084	0.038	<div><div></div></div>
<a href="#">StructureViewModel&gt;StructureViewModel.getRenderedData</a>	1	0.081	0.000	<div><div></div></div>
<a href="#">StructureViewModel&gt;StructureViewModel.getDisplayData</a>	1	0.080	0.002	<div><div></div></div>
<a href="#">ValueCol&gt;ValueCol.getData</a>	1	0.060	0.004	<div><div></div></div>
<a href="#">uppgift a b final&gt;Integrator</a>	12	0.059	0.059	<div><div></div></div>
<a href="#">ValueCol&gt;ValueCol.getValue</a>	56	0.056	0.004	<div><div></div></div>
<a href="#">FormatDataUtils.formatDataBlockForMixedView</a>	57	0.055	0.020	<div><div></div></div>
<a href="#">numericDisplay</a>	128	0.042	0.028	<div><div></div></div>
<a href="#">ValueCol&gt;ValueCol.getEditValue</a>	56	0.035	0.006	<div><div></div></div>
<a href="#">FormatDataUtils.getDisplayEditValue</a>	49	0.029	0.010	<div><div></div></div>
<a href="#">FormatDataUtils.getNumericNonScalarValueDisplay</a>	8	0.012	0.002	<div><div></div></div>
<a href="#">ismember</a>	9	0.009	0.002	<div><div></div></div>
<a href="#">SizeCol&gt;SizeCol.getData</a>	1	0.008	0.002	<div><div></div></div>
<a href="#">ClassCol&gt;ClassCol.getData</a>	1	0.008	0.002	<div><div></div></div>
<a href="#">ismember&gt;ismemberR2012a</a>	9	0.007	0.002	<div><div></div></div>
<a href="#">intersect</a>	2	0.007	0.001	<div><div></div></div>
<a href="#">FormatDataUtils.getSizeString</a>	63	0.006	0.004	<div><div></div></div>
<a href="#">intersect&gt;intersectR2012a</a>	2	0.006	0.001	<div><div></div></div>
<a href="#">SizeCol&gt;SizeCol.getSize</a>	56	0.006	0.002	<div><div></div></div>
<a href="#">ismember&gt;ismemberClassTypes</a>	9	0.005	0.002	<div><div></div></div>
<a href="#">unique</a>	11	0.005	0.003	<div><div></div></div>

<a href="#">ClassCol&gt;ClassCol.getClass</a>	56	0.005	0.002	
<a href="#">mustBeNonzeroLengthText</a>	128	0.005	0.003	
<a href="#">...DataModel&gt;MLWorkspaceDataModel.getStructOfWSContents</a>	2	0.005	0.004	
<a href="#">FormatDataUtils.getClassString</a>	64	0.005	0.004	
<a href="#">WorkspaceListener&gt;WorkspaceListener.logEvent</a>	14	0.005	0.004	
<a href="#">...DataModel&gt;MLWorkspaceDataModel.getObjectValueSummary</a>	1	0.004	0.001	
<a href="#">numericDisplay&gt;isValidSubNumericDataOrFormatter</a>	128	0.004	0.003	
<a href="#">...el&gt;RemoteWorkspaceViewModel.getUpdatedDataForObjects</a>	1	0.003	0.001	
<a href="#">FieldVariableColumn&gt;FieldVariableColumn.getHeaderName</a>	228	0.003	0.003	
<a href="#">FormatDataUtils.formatSingleDataForMixedView</a>	1	0.003	0.000	
<a href="#">mustBeTextScalar</a>	130	0.003	0.002	
<a href="#">...bleObserver&gt;MLNamedVariableObserver.workspaceUpdated</a>	2	0.003	0.001	
<a href="#">FormatDataUtils.getNumericValue</a>	98	0.003	0.003	
<a href="#">validators/private/istext</a>	128	0.003	0.002	
<a href="#">unique&gt;uniqueR2012a</a>	11	0.002	0.002	
<a href="#">cell.setdiff</a>	2	0.002	0.000	
<a href="#">FormatDataUtils.getVariableSize</a>	64	0.002	0.002	
<a href="#">ViewModel&gt;ViewModel.get.DataModel</a>	120	0.002	0.002	
<a href="#">NamedVariable&gt;NamedVariable.get.Workspace</a>	137	0.002	0.002	
<a href="#">cell.setdiff&gt;cellsetdiffR2012a</a>	2	0.002	0.001	
<a href="#">ValueCol&gt;ValueCol.isMetaData</a>	56	0.002	0.002	
<a href="#">...abularDataStore&gt;PubSubTabularDataStore.getThreadPool</a>	1	0.002	0.000	
<a href="#">StructureViewModel&gt;StructureViewModel.getFieldData</a>	56	0.002	0.002	
<a href="#">NamedVariable&gt;NamedVariable.get.Name</a>	116	0.002	0.002	
<a href="#">FormatDataUtils.isSummaryValue</a>	55	0.002	0.002	
<a href="#">validators/private/isCharRowVector</a>	258	0.001	0.001	
<a href="#">...s.sendVariableEvent('VariablesChanged',ed.Variables)</a>	1	0.001	0.000	
<a href="#">...DataStore&gt;PubSubTabularDataStore.isThreadPoolStarted</a>	1	0.001	0.000	
<a href="#">cell.unique</a>	4	0.001	0.001	
<a href="#">...ViewModel&gt;RemoteWorkspaceViewModel.sendVariableEvent</a>	1	0.001	0.001	
<a href="#">MLWorkspaceDataModel&gt;isObjectOrContainerVar</a>	66	0.001	0.001	
<a href="#">FormatDataUtils.addComplexSparseToClass</a>	61	0.001	0.001	
<a href="#">...reViewModel&gt;RemoteStructureViewModel.updateSelection</a>	1	0.001	0.000	
<a href="#">PoolManager&gt;PoolManager.getAllPools</a>	1	0.001	0.000	
<a href="#">FormatDataUtils.checkIsString</a>	57	0.001	0.001	
<a href="#">...ularDataStore&gt;PubSubTabularDataStore.sendDataMessage</a>	1	0.001	0.000	
<a href="#">setdiff</a>	1	0.001	0.000	
<a href="#">logDebug</a>	3	0.001	0.001	
<a href="#">...s.WorkspaceListener.enableLXELListeners(currentState)</a>	2	0.001	0.000	
<a href="#">ArrayViewModel&gt;ArrayViewModel.getData</a>	4	0.001	0.000	
<a href="#">FormatDataUtils.dimensionString</a>	1	0.001	0.000	
<a href="#">...kspaceListener&gt;WorkspaceListener.disableLXELListeners</a>	2	0.001	0.000	
<a href="#">mustBeNumericOrLogical</a>	128	0.001	0.001	
<a href="#">numericDisplay&gt;mustBeTwoDimensional</a>	128	0.001	0.001	
<a href="#">numericDisplay&gt;isValidNumericData</a>	128	0.001	0.001	
<a href="#">...wModel&gt;RemoteStructureViewModel.updateSelectedFields</a>	1	0.001	0.000	
<a href="#">mustBeNonempty</a>	128	0.001	0.001	
<a href="#">setdiff&gt;setdiffR2012a</a>	1	0.001	0.000	
<a href="#">...rkspaceListener&gt;WorkspaceListener.enableLXELListeners</a>	2	0.001	0.000	
<a href="#">FormatDataUtils.getCurrentNumericFormat</a>	1	0.001	0.000	

<a href="#">FormatDataUtils.isEmpty</a>	56	0.001	0.001	
<a href="#">ArrayViewModel&gt;ArrayViewModel.getTabularDataSize</a>	3	0.001	0.000	
<a href="#">StructureDataModel&gt;StructureDataModel.getData</a>	12	0.001	0.001	
<a href="#">...orkspaceDocument&gt;MLWorkspaceDocument.variableChanged</a>	2	0.001	0.000	
<a href="#">...ubSubTabularDataStore.messageserviceDispatchToClient</a>	1	0.001	0.000	
<a href="#">num2str</a>	2	0.001	0.000	
<a href="#">WorkspaceListener&gt;WorkspaceListener.logEventsEnabled</a>	14	0.001	0.001	
<a href="#">MLStructureDataModel&gt;MLStructureDataModel.getData</a>	6	0.001	0.000	
<a href="#">...ataStore&gt;PubSubTabularDataStore.rangeAffectsViewport</a>	2	0.001	0.000	
<a href="#">...bTabularDataStore&gt;PubSubTabularDataStore.havePageSet</a>	2	0.001	0.000	
<a href="#">StructureViewModel&gt;StructureViewModel.getSize</a>	3	0.001	0.000	
<a href="#">getBaseVariableName</a>	2	0.001	0.000	
<a href="#">...ructureViewModel&gt;StructureViewModel.findVisibleField</a>	4	0.001	0.001	
<a href="#">publish</a>	1	0.001	0.001	
<a href="#">ismember&gt;ismemberBuiltinTypes</a>	4	0.000	0.000	
<a href="#">...paceViewModel&gt;RemoteWorkspaceViewModel.getSubVarName</a>	112	0.000	0.000	
<a href="#">StructureDataModel&gt;StructureDataModel.set.Data</a>	1	0.000	0.000	
<a href="#">...tureViewModel&gt;StructureViewModel.getRenderedCellData</a>	1	0.000	0.000	
<a href="#">...Listener&gt;WorkspaceListener.getSetLXELListenersEnabled</a>	8	0.000	0.000	
<a href="#">...WorkspaceDataModel&gt;MLWorkspaceDataModel.getVarsToLog</a>	1	0.000	0.000	
<a href="#">mustBeNonnegative</a>	5	0.000	0.000	
<a href="#">...kspaceListenerList&gt;WorkspaceListenerList.getListener</a>	4	0.000	0.000	
<a href="#">partialMatchString</a>	4	0.000	0.000	
<a href="#">int2str</a>	2	0.000	0.000	
<a href="#">isprop</a>	1	0.000	0.000	
<a href="#">...larDataStore&gt;PubSubTabularDataStore.getAdjustedRange</a>	1	0.000	0.000	
<a href="#">...sa(x,'internal.matlab.workspace.ObjectValueSummary')</a>	66	0.000	0.000	
<a href="#">repmat</a>	1	0.000	0.000	
<a href="#">...acebrowser.RemoteWorkspaceViewModel.getHeaderName(x)</a>	4	0.000	0.000	
<a href="#">...&gt;RemoteStructureViewModel.updateSelectedRowIntervals</a>	1	0.000	0.000	
<a href="#">...reViewModel&gt;RemoteStructureViewModel.isFieldEditable</a>	56	0.000	0.000	
<a href="#">FormatDataUtils.isValueSummaryClass</a>	2	0.000	0.000	
<a href="#">rectint</a>	2	0.000	0.000	
<a href="#">settings</a>	1	0.000	0.000	
<a href="#">repmat</a>	1	0.000	0.000	
<a href="#">StructureDataModel&gt;StructureDataModel.getData_I</a>	12	0.000	0.000	
<a href="#">...paceViewModel&gt;RemoteWorkspaceViewModel.getHeaderName</a>	4	0.000	0.000	
<a href="#">cell.ismember</a>	3	0.000	0.000	
<a href="#">...stenerList&gt;WorkspaceListenerList.getListenerListSize</a>	6	0.000	0.000	
<a href="#">strjoin</a>	1	0.000	0.000	
<a href="#">settings</a>	1	0.000	0.000	
<a href="#">...WorkspaceDataModel&gt;MLWorkspaceDataModel.doAnsCompare</a>	1	0.000	0.000	
<a href="#">PoolManager&gt;PoolManager.cleanupStalePools</a>	1	0.000	0.000	
<a href="#">...Listener&gt;WorkspaceListener.getWorkspaceListenersList</a>	6	0.000	0.000	
<a href="#">NameCol&gt;NameCol.getData</a>	1	0.000	0.000	
<a href="#">...&gt;WorkspaceListener.getSetListenerExecutionInProgress</a>	4	0.000	0.000	
<a href="#">...tener&gt;WorkspaceListener.get.WorkspaceListenerEnabled</a>	4	0.000	0.000	
<a href="#">Document&gt;Document.get.DataModel</a>	2	0.000	0.000	
<a href="#">...leObserver&gt;MLNamedVariableObserver.get.IgnoreUpdates</a>	4	0.000	0.000	
<a href="#">StructureViewModel&gt;StructureViewModel.getFields</a>	3	0.000	0.000	

<a href="#">...List&gt;WorkspaceListenerList.resetDisabledListenerList</a>	2	0.000	0.000	
<a href="#">repmat&gt;checkSizesType</a>	1	0.000	0.000	
<a href="#">PoolManager&gt;PoolManager.getInstance</a>	1	0.000	0.000	
<a href="#">StructureDataModel&gt;StructureDataModel.set.Data_I</a>	1	0.000	0.000	
<a href="#">getSettingsRoot</a>	2	0.000	0.000	
<a href="#">StructureDataModel&gt;StructureDataModel.getSize</a>	3	0.000	0.000	
<a href="#">FormatDataUtils.isExpandableScalar</a>	1	0.000	0.000	
<a href="#">mustBeInteger</a>	1	0.000	0.000	
<a href="#">...erList&gt;WorkspaceListenerList.getDisabledListenerList</a>	2	0.000	0.000	
<a href="#">deg2rad</a>	1	0.000	0.000	
<a href="#">...ngeEventData&gt;DataChangeEventData.DataChangeEventData</a>	1	0.000	0.000	
<a href="#">isStringScalar</a>	1	0.000	0.000	
<a href="#">...ta&gt;WorkspaceChangeEventData.WorkspaceChangeEventData</a>	1	0.000	0.000	
<a href="#">FormatDataUtils.getDesktopInUse</a>	1	0.000	0.000	
<a href="#">...ctValueSummary&gt;ObjectValueSummary.ObjectValueSummary</a>	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.