## Profile Summary (Total time: 405.298 s)

Generated 20-Mar-2023 18:46:14 using performance time.

Function Name	Calls	Total Time (s) ‡	Self Time* (s)	Total Time Plot (dark band = self time)
product code test	1	405.298	0.248	
product code dec	120	404.451	0.377	
BCH_decode	61200	404.075	354.713	
polyval	15710655	49.362	49.362	
plotting_script	1	0.405	0.054	
legend	1	0.239	0.007	
legend>make_legend	1	0.230	0.009	
product_code_enc	1	0.182	0.004	
BCH_encode	494	0.178	0.178	
Legend.Legend>Legend	2	0.091	0.015	
Legend.Legend>Legend.set.Axes	1	0.075	0.002	
newplotwrapper	11	0.075	0.002	
newplot	11	0.074	0.009	
Legend.Legend>Legend.set.Axes_I	1	0.073	0.001	
Legend.Legend>Legend.setAxesImpl	1	0.072	0.003	
legendcolorbarlayout	2	0.059	0.003	
legend>process_inputs	1	0.051	0.011	
<u>Legend.doSetup</u>	2	0.046	0.007	
CanvasPlugin.CanvasPlugin>CanvasPlugin.createCanvas	1	0.038	0.003	
ayoutManager.AxesLayoutManager>AxesLayoutManager.getManager	2	0.035	0.003	
CanvasSetup>CanvasSetup.createScribeLayers	1	0.024	0.002	
<u>ibeStackManager.ScribeStackManager&gt;ScribeStackManager.getLayer</u>	4	0.023	0.003	
LayoutManager.AxesLayoutManager>AxesLayoutManager.addToTree	1	0.020	0.003	
$\dots \underline{tack Manager. Scribe Stack Manager. Scribe Stack Manager. createLayer}$	3	0.019	0.004	
$ \underline{tManager.AxesLayoutManager>AxesLayoutManager.insertAboveAxes}$	1	0.018	0.006	
hggetbehavior	4	0.018	0.001	
hggetbehavior>localGet	4	0.017	0.004	
legend>getLegendableChildren	1	0.016	0.000	
<u>getLegendableChildren</u>	1	0.016	0.002	
Legend.Legend>Legend.set.Location	2	0.012	0.001	
<u>Legend.attachAxesListeners</u>	1	0.012	0.006	
newplot>ObserveAxesNextPlot	11	0.012	0.002	
nager.AxesLayoutManager>AxesLayoutManager.AxesLayoutManager	1	0.012	0.001	
ScribeLayer.ScribeLayer>ScribeLayer.ScribeLayer	3	0.011	0.005	
xlabel	1	0.011	0.005	
hold	2	0.011	0.005	
rng	1	0.011	0.002	
<u>hgbehaviorfactory</u>	4	0.010	0.001	
Legend.Legend>Legend.set.Location_I	2	0.010	0.001	
<u>Legend.setupBoxEdge</u>	2	0.010	0.009	
hgbehaviorfactory>localCreate	4	0.009	0.004	
cla	1	0.009	0.003	
ToolbarFactory>ToolbarFactory.getToolbar	1	0.009	0.001	
<u>roller.DesktopToolbarController&gt;DesktopToolbarController.getInstance</u>	~	0.008	0.001	
outManager.AxesLayoutManager>AxesLayoutManager.ValidateObject	1	0.008	0.002	

Legend.Legend>Legend.setLocationImpl	2	0.008	0.003	
ToolbarController>DesktopToolbarController.DesktopToolbarController	1	0.007	0.002	
InteractionContainer>InteractionContainer.InteractionContainer	3	0.007	0.003	
xlim	1	0.007	0.001	
rulerFunctions	2	0.007	0.005	
Legend.doMethod	4	0.006	0.001	
ismember	2	0.006	0.001	
Legend.Legend>Legend.set.BoxEdge_I	2	0.006	0.002	
RandStream.RandStream>RandStream	1	0.006	0.003	
artesianAxesInteractionContainer.CartesianAxesInteractionContainer	1	0.006	0.000	
AnnotationPane.AnnotationPane>AnnotationPane.AnnotationPane	2	0.006	0.001	
esLayoutManager.AxesLayoutManager>AxesLayoutManager.set.Axes	1	0.005	0.001	
$ \underline{Standard Axes Interaction Container. Standard Axes Interaction Container}$	1	0.005	0.000	
islegendable	1	0.005	0.004	
ScribeLayer.ScribeLayer>@(src,event)hObj.childAdded(src,event)	2	0.005	0.001	
graphics\private\clo	1	0.005	0.004	
Legend.Legend>Legend.set.AxesListenerList	4	0.005	0.003	
>OuterPositionChangedEventMixin.OuterPositionChangedEventMixin	1	0.005	0.004	
ylabel	1	0.005	0.004	
ntainer>BaseAxesInteractionContainer.BaseAxesInteractionContainer	1	0.005	0.001	
allchild	1	0.005	0.003	
anager.AxesLayoutManager>AxesLayoutManager.addAxesListeners	1	0.005	0.005	
Legend.Legend>Legend.set.TitleSeparator I	2	0.005	0.002	
ismember>ismemberR2012a	2	0.005	0.003	
ayoutManager.AxesLayoutManager>AxesLayoutManager.findMethod	4	0.005	0.005	
Legend.doMethod>createDefaultContextMenu	2	0.005	0.005	
ScribeLayer.ScribeLayer.ScribeLayer.childAdded	2	0.005	0.004	
AnnotationPane.AnnotationPane.doSetup	2	0.004	0.003	
Legend.Legend>Legend.setBoxEdge IFanoutProps	2	0.004	0.003	
hgbehaviorfactory>localGetBehaviorInfo	4	0.004	0.004	
Legend.Legend>Legend.set.BoxFace	2	0.004	0.002	
youtManager.AxesLayoutManager>@(h,e)localReparentCB(h,e,hObj)	1	0.004	0.001	
flipud	2	0.004	0.001	
objArrayDispatch	5	0.003	0.002	
outManager>AxesLayoutManager.addAxesListeners/localReparentCB	1	0.003	0.003	
gobjects	27	0.003	0.003	
Legend.Legend>Legend.set.SelfListenerList	2	0.003	0.002	
InteractionContainer>InteractionContainer.set.InteractionsArrayMode	3	0.003	0.002	
ToolbarController.ToolbarController.ToolbarController	1	0.003	0.002	
teractionContainer>TextInteractionContainer.TextInteractionContainer	2	0.003	0.001	
Legend.Legend>Legend.setTitleSeparator IFanoutProps	2	0.003	0.003	
flip	2	0.003	0.001	
Legend.Legend>Legend.set.LimitMaxLegendEntries	1	0.003	0.001	
RandStream.RandStream>RandStream	1	0.003	0.001	
	2	0.003	0.000	
graph2d\private\labelcheck	2	0.003	0.002	
cell_ismember				
beStackManager.ScribeStackManager.ScribeStackManager.findLayer		0.003	0.003	
youtManager.AxesLayoutManager>AxesLayoutManager.addToLayoutableLegend>AbstractExpandableLegend	2	0.003	0.002	
RandStream.RandStream>localGetSetGlobalStream	1	0.002	0.002	

Legend.Legend>Legend.setBoxFace IFanoutProps	2	0.002	0.002	
Legend.Legendset.Bot. acc in another reps  Legend.Legendset.PlotChildrenSpecified	1	0.002	0.002	
axescheck	2	0.002	0.001	
grid	1	0.002	0.002	
ismember>ismemberClassTypes	2	0.002	0.002	
Legend.Legendset.DecorationContainer_I	2	0.002	0.002	
Legend.Legend.get.Axes	6	0.002	0.001	
Legend.Legendset.DataSpace I	2	0.002	0.002	
markFigure	5	0.002	0.002	
ScribeLayer.ScribeLayer>@(src,event)hObj.childRemoved(src,event)	1	0.002	0.001	
PostUpdatePlugin>PostUpdatePlugin	1	0.002	0.001	
Legend.Legendset.ColorSpace I	2	0.002	0.002	
Legend.Legend>Legend.set.SelectionHandle_!	2	0.002	0.002	
Legend.Legendset.EntryContainer_I	2	0.002	0.002	
RandStream.RandStream>getargs	1	0.002	0.002	
flip	2	0.002	0.002	
tractChartIllustration>AbstractChartIllustration.AbstractChartIllustration		0.002	0.001	
legend>find_legend	1	0.002	0.001	
PointerMixin>PointerMixin.setPointerStrategy	1	0.002	0.001	
expandLegendChildren	1	0.002	0.001	
outManager.AxesLayoutManager.SetParentImpl	100	0.002	0.002	
Legend.LegendsLegend.get.Axes I	7	0.002	0.001	
graphics\private\claNotify	1	0.002	0.002	
Legend.Legendset.EdgeColor_I	1	0.002	0.001	
StackManager.ScribeStackManager.hasLayers	3	0.001	0.001	
Legend.Legend.get.Position_I	1	0.001	0.000	
er.ScribeLayer>@(src,event)hObj.childRemovedOrDeleted(src,event)	1	0.001	0.000	
tainer>CartesianAxesInteractionContainer.getDefaultInteractionsArray	1	0.001	0.001	
Legend.Legendset.LocationMode	2	0.001	0.001	
ScribeLayer.ScribeLayer>ScribeLayer.childRemoved	1	0.001	0.001	
Legend.Legend>Legend.set.AxesListenerListMode	4	0.001	0.001	
Legend.Legendset.SelfListenerListMode	2	0.001	0.001	
Legend.Legend.Legend.get.AxesListenerList	8	0.001	0.001	
Legend.Legend>Legend.set.PlotChildrenSpecifiedMode	1	0.001	0.001	
ylim	1	0.001	0.000	
Legend.Legend>Legend.set.LimitMaxLegendEntriesMode	1	0.001	0.001	
AbstractChartIllustration.setParentImpl	1	0.001	0.001	
isMatchingSize	1	0.001	0.001	
Legend.Legend>Legend.set.AxesMode	1	0.001	0.001	
rulerFunctions>parseFunctionName	2	0.001	0.001	
hasbehavior	11	0.001	0.001	
Legend.Legend>Legend.getPositionImpl	1	0.001	0.001	
AnnotationPane.AnnotationPane.setParentImpl	2	0.001	0.001	
Legend.doPostSetup	1	0.001	0.001	
Legend.doSetup>@(h,e)hObj.doDelete	1	0.001	0.001	
hggetbehavior>localPeek	4	0.001	0.001	
AnnotationPane.AnnotationPane.addChild	2	0.001	0.001	
ScribeLayer.ScribeLayer>ScribeLayer.childRemovedOrDeleted	1	0.001	0.001	
PlotEditBehavior.PlotEditBehavior.PlotEditBehavior.PlotEditBehavior	2	0.001	0.001	
outManager.AxesLayoutManager>AxesLayoutManager.set.LayoutList		0.001	0.001	
odinanagoi. ricoscayodiivianagoi - ricoscayodiivianagoi. set. cayoditist	-	0.001	0.001	

Legend.Legend>Legend.getGraphicsAxes	2	0.001	0.001	
axescheck>@(x)(isStringScalar(x))  ischar(x))&&strcmpi('parent',x)	2	0.001	0.001	
legend>lcl is2D	1	0.001	0.001	
Legend.Legend>Legend.set.Camera	2	0.001	0.001	
	11	0.001	0.001	
newplot>ObserveFigureNextPlot	1	0.001	0.001	
sInteractionSet>DefaultAxesInteractionSet.DefaultAxesInteractionSet				
ModeStrategy>FigureBasedModeStrategy.FigureBasedModeStrategy	1	0.001	0.001	
Legend.Legendset.PositionMode	2	0.001	0.001	
Legend.Legendsget.SelfListenerList	4	0.001	0.000	
odeStrategy>FigurePointerModeStrategy_FigurePointerModeStrategy	1	0.001	0.001	
Legend.Legend>Legend.get.Location_I	2	0.001	0.000	
<u>Legend.removeAllEntries</u>	1	0.001	0.001	
AxesLayoutManager.AxesLayoutManager>setInstancePropOnAxes	1	0.001	0.001	
<u>mustBeValidGraphicsObject</u>	3	0.001	0.001	
isCharOrString	3	0.001	0.001	
Legend.Legend>Legend.set.CLim_I	2	0.001	0.001	
PlotEditBehavior.PlotEditBehavior.dosupport	2	0.001	0.001	
PrintBehavior>PrintBehavior.dosupport	2	0.001	0.001	
<u>Legend.Legend&gt;Legend.get.standalone</u>	1	0.001	0.000	
RandStream.RandStream>RandStream.algName	1	0.001	0.001	
allchild>getchildren	1	0.001	0.001	
$ \underline{Interaction Container > Base Axes Interaction Container.set. Current Mode}$	1	0.001	0.001	
PrintBehavior>PrintBehavior.PrintBehavior	2	0.001	0.000	
ChildEventData>ChildEventData.ChildEventData	3	0.001	0.001	
Legend.Legend>Legend.getAxesImpl	7	0.001	0.001	
Legend.Legend>Legend.set.AxesListenerList_I	4	0.001	0.001	
convertStringToCharArgs	2	0.001	0.001	
Legend.Legend>Legend.get.AxesListenerList_I	12	0.001	0.001	
ToolbarFactory>ToolbarFactory.getInstance	1	0.001	0.001	
AxesLayoutManager.AxesLayoutManager>addInstancePropToAxes	1	0.001	0.001	
Legend.doMethod>@(h,e)delete(uic)	1	0.001	0.001	
Legend.Legend>Legend.get.BoxEdge	35	0.001	0.001	
ScribeLayer.ScribeLayer>ScribeLayer.checkValidity	1	0.001	0.001	
mpower	2	0.000	0.000	
RandStream.RandStream>RandStream.delete	1	0.000	0.000	
CanvasPlugin.CanvasPlugin>CanvasPlugin.getInstance	1	0.000	0.000	
ctorHelper	6	0.000	0.000	
Legend.Legend>Legend.get.TitleSeparator	31	0.000	0.000	
<u>isplotyyaxes</u>	2	0.000	0.000	
Legend.Legend>Legend.get.EdgeColor	4	0.000	0.000	
Legend.doDelete	1	0.000	0.000	
allchild>@()set(rootobj,'ShowHiddenHandles',Temp)	1	0.000	0.000	
<u>usejava</u>	1	0.000	0.000	
legend>setDisplayNames	1	0.000	0.000	
tackManager.ScribeStackManager.getInstance	1	0.000	0.000	
AnnotationPane.AnnotationPane>AnnotationPane.getParentImpl	6	0.000	0.000	
HGBehavior>HGBehavior.HGBehavior	4	0.000	0.000	
Legend.Legend>Legend.get.Box I	10	0.000	0.000	
ScribeLayer.ScribeLayer>ScribeLayer.findCanvas	4	0.000	0.000	
uitools\private\allchildRootHelper	1	0.000	0.000	
and the property of the part o	ļ .	3.000	3.000	

Legend.Legend>Legend.get.LocationMode	4	0.000	0.000	
expandLegendChildren>@(x)isa(x,'matlab.graphics.primitive.Group')	11	0.000	0.000	
Legend.Legend.Legend.get.BoxFace	12	0.000	0.000	
graph2d\private\labelcheck>local_validlabelobj	1	0.000	0.000	
Legend.Legend.get.DecorationContainer	12	0.000	0.000	
Legend.Legend.get.Camera	9	0.000	0.000	
Legend.doMethod>setButtonDownFcn	2	0.000	0.000	
Legend.Legend>Legend.get.ColorSpace	10	0.000	0.000	
Legend.Legend.get.DataSpace	8	0.000	0.000	
Legend.LegendsLegend.get.EdgeColor_I	9	0.000	0.000	
Legend.Legends_Legend.get.SelfListenerList_I	6	0.000	0.000	
Legend.Legend.get.SelectionHandle	6	0.000	0.000	
Legend.LegendsLegend.get.EntryContainer	5	0.000	0.000	
isStringScalar	2	0.000	0.000	
a>OuterPositionChangedEventData.OuterPositionChangedEventData	1	0.000	0.000	
	8	0.000	0.000	
Legend_Legend>Legend_get.LineWidth_I	1			
BaseAxesInteractionContainer>BaseAxesInteractionContainer.set.is2d	10	0.000	0.000	
ics.illustration.Legend')  isa(obj,'matlab.graphics.illustration.ColorBar')	1			
legend>get_legend_properties	2	0.000	0.000	
Legend.Legend>Legend.getLocationImpl		0.000	0.000	
ab.graphics.illustration.ColorBar')  isa(ax,'matlab.graphics.chart.Chart')	1	0.000	No. orange and	
Legend_Legend>Legend.get.LimitMaxLegendEntriesMode	1	0.000	0.000	
Legend.Legend>Legend.get.LimitMaxLegendEntries_I	2	0.000	0.000	
isPublishingTest		0.000	0.000	
Legend.Legend>Legend.get.Color_I	3	0.000	0.000	
Legend_Legend>Legend.get_AxesListenerListMode	2	0.000	0.000	
Legend_Legend_legend_get_SelfListenerListMode	1		100 00000 D	
Legend.Legend>Legend.get.standalone_I Legend.Legend>Legend.set.SelfListenerList_I	2	0.000	0.000	
	7			
legend>istextscalar	1	0.000	0.000	
Legend Legend Set Version		0.000	0.000	
Legend.Legend>Legend.get.TextColor_I	1	0.000	0.000	
Legend.Legend_get.PlotChildrenSpecifiedMode	1	0.000	0.000	
Legend.Legend>Legend.get.PositionMode	2	0.000	0.000	
Legend.Legend>Legend.get.AxesMode	1	0.000	0.000	
isFigureShowEnabled	2	0.000	0.000	
hasDisplay.	2	0.000	0.000	
BaseInteractionSet>BaseInteractionSet.BaseInteractionSet	1	0.000	0.000	
PointerMixin>PointerMixin.PointerMixin	1	0.000	0.000	
PointerModeStrategy>PointerModeStrategy.PointerModeStrategy	1	0.000	0.000	
AbstractModeStrategy>AbstractModeStrategy_AbstractModeStrategy	1	0.000	0.000	
outManager.AxesLayoutManager.getParentImpl		0.000	0.000	
ractionContainer>TextInteractionContainer.getDefaultInteractionsArray		0.000	0.000	
Legend.Legend>Legend.setColorSpace_IFanoutProps	2	0.000	0.000	
Legend.Legend>Legend.setSelectionHandle_IFanoutProps	2	0.000	0.000	
Legend.Legend>Legend.setDataSpace_IFanoutProps	2	0.000	0.000	
Legend.LegendsetEntryContainer_IFanoutProps	2	0.000	0.000	
Legend.Legend>Legend.setCamera_IFanoutProps	2	0.000	0.000	
Legend.Legend>Legend.setDecorationContainer_IFanoutProps	2	0.000	0.000	
legend>istextscalarvector	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.