

## Profile Summary

Generated 26-Nov-2015 14:06:51 using cpu time.

<a href="#">Function Name</a>	<a href="#">Calls</a>	<a href="#">Total Time</a>	<a href="#">Self Time</a> *	Total Time Plot (dark band = self time)
<a href="#">detectCards</a>	1	995.784 s	0.108 s	
<a href="#">ccl</a>	3	889.228 s	497.779 s	
<a href="#">sub2ind</a>	3405500	277.665 s	277.665 s	
<a href="#">meshgrid</a>	1702750	113.784 s	113.784 s	
<a href="#">gauss</a>	7	104.602 s	104.572 s	
<a href="#">detectCardValue</a>	6	46.197 s	0.108 s	
<a href="#">detectSymbol</a>	8	1.120 s	0.000 s	
<a href="#">insertObjectAnnotation</a>	3	0.471 s	0.442 s	
<a href="#">regionprops</a>	9	0.403 s	0.029 s	
<a href="#">regionprops&gt;ComputeBoundingBox</a>	9	0.295 s	0.049 s	
<a href="#">regionprops&gt;ComputePixelList</a>	9	0.246 s	0.098 s	
<a href="#">imshow</a>	1	0.206 s	0.020 s	
<a href="#">imread</a>	1	0.147 s	0.000 s	
<a href="#">ind2sub</a>	812	0.147 s	0.147 s	
<a href="#">imagesci/private/readjpg</a>	1	0.137 s	-0.000 s	
<a href="#">imagesci/private/rjpg8c (MEX-file)</a>	1	0.128 s	0.128 s	
<a href="#">imageDisplayParseInputs</a>	1	0.128 s	0.000 s	
<a href="#">imcrop</a>	21	0.118 s	0.088 s	
<a href="#">imageDisplayValidateParams</a>	1	0.118 s	0.029 s	
<a href="#">threshOtsu</a>	15	0.108 s	0.069 s	
<a href="#">imageDisplayValidateParams&gt;validateCData</a>	1	0.079 s	0.079 s	
<a href="#">im2double</a>	1	0.069 s	0.069 s	
<a href="#">rgb2gray</a>	13	0.069 s	0.069 s	
<a href="#">padAndDelete</a>	6	0.069 s	0.029 s	
<a href="#">padarray</a>	13	0.049 s	0.020 s	
<a href="#">imresize</a>	8	0.049 s	0.000 s	
<a href="#">imhist</a>	15	0.039 s	0.010 s	

<a href="#">regionprops&gt;ComputePixelIdxList</a>	9	0.039 s	0.000 s	
<a href="#">images/private/regionpropsmex</a> (MEX-file)	3	0.039 s	0.039 s	
<a href="#">...tAnnotation&gt;validateAndParseInputs</a>	3	0.029 s	0.000 s	
<a href="#">images/private/imhistc</a> (MEX-file)	15	0.029 s	0.029 s	
<a href="#">bwlabel</a>	10	0.029 s	0.000 s	
<a href="#">imcrop&gt;parseInputs</a>	21	0.029 s	0.010 s	
<a href="#">imresize&gt;parseInputs</a>	8	0.029 s	0.000 s	
<a href="#">initSize</a>	1	0.029 s	0.010 s	
<a href="#">padarray&gt;ParseInputs</a>	13	0.020 s	0.010 s	
<a href="#">regionprops&gt;createOutputStatsStructure</a>	9	0.020 s	0.010 s	
<a href="#">images/private/bwlabel2</a> (MEX-file)	10	0.020 s	0.020 s	
<a href="#">imresize&gt;parsePreMethodArgs</a>	8	0.020 s	0.010 s	
<a href="#">newplot</a>	2	0.020 s	0.020 s	
<a href="#">findZoomMag</a>	3	0.020 s	0.010 s	
<a href="#">imagesci/private/imftype</a>	1	0.010 s	0.000 s	
<a href="#">imagesci/private/isjpg</a>	1	0.010 s	0.010 s	
<a href="#">imagesci/private/imjpgbaselineinfo</a>	1	0.010 s	0.010 s	
<a href="#">imagesci/private/imjpginfo</a>	1	0.010 s	0.000 s	
<a href="#">validatestring</a>	21	0.010 s	0.000 s	
<a href="#">validatestring&gt;checkString</a>	21	0.010 s	0.010 s	
<a href="#">regionprops&gt;getPropsFromInput</a>	9	0.010 s	0.010 s	
<a href="#">padarray&gt;ConstantPad</a>	6	0.010 s	0.010 s	
<a href="#">regionprops&gt;ParseInputs</a>	9	0.010 s	0.000 s	
<a href="#">cell.ismember</a>	9	0.010 s	0.000 s	
<a href="#">cell.ismember&gt;cellismemberR2012a</a>	9	0.010 s	0.010 s	
<a href="#">bwconncomp</a>	6	0.010 s	0.010 s	
<a href="#">images/private/labelBinaryRuns</a>	16	0.010 s	0.000 s	
<a href="#">images/private/bwlabel1</a> (MEX-file)	16	0.010 s	0.010 s	
<a href="#">...checkForInvertedWorldCoordinateSystem</a>	42	0.010 s	0.010 s	
<a href="#">imcrop&gt;checkCData</a>	21	0.010 s	0.010 s	
<a href="#">imresize&gt;scaleOrSize</a>	8	0.010 s	0.010 s	
<a href="#">imresize&gt;fixupSizeAndScale</a>	8	0.010 s	0.000 s	
<a href="#">imresize&gt;deriveScaleFromSize</a>	8	0.010 s	0.010 s	

<a href="#">imresize&gt;contributions</a>	16	0.010 s	0.000 s	
<a href="#">imresize&gt;@(x)scale*kernel(scale*x)</a>	6	0.010 s	0.010 s	
<a href="#">imresize&gt;resizeAlongDim</a>	16	0.010 s	0.000 s	
<a href="#">...gt:resizeAlongDimUsingNearestNeighbor</a>	2	0.010 s	0.010 s	
<a href="#">num2str</a>	3	0.010 s	0.000 s	
<a href="#">int2str</a>	3	0.010 s	0.010 s	
<a href="#">strcat</a>	6	0.010 s	0.010 s	
<a href="#">insertObjectAnnotation&gt;checkImage</a>	3	0.010 s	0.010 s	
<a href="#">insertObjectAnnotation&gt;crossCheckInputs</a>	3	0.010 s	0.000 s	
<a href="#">insertObjectAnnotation&gt;getNumColors</a>	6	0.010 s	0.010 s	
<a href="#">insertObjectAnnotation&gt;getColorMatrix</a>	6	0.010 s	0.000 s	
<a href="#">insertObjectAnnotation&gt;colorRGBValue</a>	6	0.010 s	0.010 s	
<a href="#">basicImageDisplay</a>	1	0.010 s	0.000 s	
<a href="#">imshow&gt;getBorder</a>	1	0.010 s	0.010 s	
<a href="#">imageDisplayParsePVPairs</a>	1	0.010 s	0.010 s	
<a href="#">checkDisplayRange</a>	1	0.010 s	0.010 s	
<a href="#">magPercentsDiffer</a>	10	0.010 s	0.000 s	
<a href="#">magPercentsDiffer&gt;toPercent</a>	20	0.010 s	0.010 s	
<a href="#">imread&gt;parse_inputs</a>	1	0 s	0.000 s	
<a href="#">imformats</a>	1	0 s	0.000 s	
<a href="#">imformats&gt;find_in_registry</a>	1	0 s	0.000 s	
<a href="#">...gbaselineinfo&gt;recover_valid_marker</a>	7	0 s	0.000 s	
<a href="#">...selineinfo&gt;parse_app1_exif_segment</a>	1	0 s	0.000 s	
<a href="#">intmin</a>	1	0 s	0.000 s	
<a href="#">intmax</a>	1	0 s	0.000 s	
<a href="#">rgb2gray&gt;parse_inputs</a>	13	0 s	0.000 s	
<a href="#">validatestring&gt;checkInputs</a>	21	0 s	0.000 s	
<a href="#">insertObjectAnnotation&gt;checkColor</a>	6	0 s	0.000 s	
<a href="#">images/private/getPaddingIndices</a>	7	0 s	0.000 s	
<a href="#">...ate/getPaddingIndices&gt;ReplicatePad</a>	7	0 s	0.000 s	
<a href="#">images/private/mkconstarray</a>	6	0 s	0.000 s	
<a href="#">imhist&gt;parse_inputs</a>	15	0 s	0.000 s	
<a href="#">getrangefromclass</a>	15	0 s	0.000 s	

<a href="#">linspace</a>	15	0 s	0.000 s	
<a href="#">regionprops&gt;InitializeStatStructures</a>	9	0 s	0.000 s	
<a href="#">deal</a>	9	0 s	0.000 s	
<a href="#">bwconncomp&gt;parseInputs</a>	6	0 s	0.000 s	
<a href="#">images/private/bwconncomp_2d</a>	6	0 s	0.000 s	
<a href="#">images/private/pixelIdxLists</a> (MEX-file)	6	0 s	0.000 s	
<a href="#">imresize&gt;findMethodArg</a>	8	0 s	0.000 s	
<a href="#">imresize&gt;findFirstParamString</a>	8	0 s	0.000 s	
<a href="#">imresize&gt;warnIfPostMethodArgs</a>	8	0 s	0.000 s	
<a href="#">imresize&gt;parseParamValuePairs</a>	8	0 s	0.000 s	
<a href="#">imresize&gt;fixupScale</a>	8	0 s	0.000 s	
<a href="#">imresize&gt;fixupSize</a>	8	0 s	0.000 s	
<a href="#">imresize&gt;checkForMissingOutputArgument</a>	8	0 s	0.000 s	
<a href="#">imresize&gt;preprocessImage</a>	8	0 s	0.000 s	
<a href="#">imresize&gt;postprocessImage</a>	8	0 s	0.000 s	
<a href="#">imresize&gt;isInputIndexed</a>	24	0 s	0.000 s	
<a href="#">im2uint8</a>	6	0 s	0.000 s	
<a href="#">imresize&gt;dimensionOrder</a>	8	0 s	0.000 s	
<a href="#">imresize&gt;create@(x)scale*kernel(scale*x)</a>	6	0 s	0.000 s	
<a href="#">imresize&gt;cubic</a>	16	0 s	0.000 s	
<a href="#">...e&gt;isPureNearestNeighborComputation</a>	24	0 s	0.000 s	
<a href="#">images/private/imresizemex</a> (MEX-file)	14	0 s	0.000 s	
<a href="#">blanks</a>	6	0 s	0.000 s	
<a href="#">insertObjectAnnotation&gt;convert2RGB</a>	3	0 s	0.000 s	
<a href="#">insertObjectAnnotation&gt;checkLabel</a>	3	0 s	0.000 s	
<a href="#">cell.strfind</a>	6	0 s	0.000 s	
<a href="#">insertObjectAnnotation&gt;getLabels</a>	3	0 s	0.000 s	
<a href="#">insertObjectAnnotation&gt;cell2labels</a>	3	0 s	0.000 s	
<a href="#">...notation&gt;validateAndParseOptInputs</a>	3	0 s	0.000 s	
<a href="#">...ectAnnotation&gt;getDefaultParameters</a>	3	0 s	0.000 s	
<a href="#">...jectAnnotation&gt;checkTextBoxOpacity</a>	3	0 s	0.000 s	
<a href="#">insertObjectAnnotation&gt;checkFontSize</a>	3	0 s	0.000 s	
<a href="#">...ectAnnotation&gt;getNumPointsForShape</a>	3	0 s	0.000 s	

<a href="#">insertObjectAnnotation&gt;getSystemObjects</a>	3	0 s	0.000 s	
<a href="#">insertObjectAnnotation&gt;getDTypeIdx</a>	3	0 s	0.000 s	
<a href="#">insertObjectAnnotation&gt;getShapeIdx</a>	3	0 s	0.000 s	
<a href="#">insertObjectAnnotation&gt;getLabelTypeIdx</a>	3	0 s	0.000 s	
<a href="#">insertObjectAnnotation&gt;tuneOpacity</a>	3	0 s	0.000 s	
<a href="#">...bjectAnnotation&gt;getTextLocAndWidth</a>	3	0 s	0.000 s	
<a href="#">insertObjectAnnotation&gt;appendAlignment</a>	3	0 s	0.000 s	
<a href="#">getWorkArea</a>	2	0 s	0.000 s	
<a href="#">isFigureAvailable</a>	3	0 s	0.000 s	
<a href="#">...t:preParseInputsForSpatialReferencing</a>	1	0 s	0.000 s	
<a href="#">imshow&gt;create@(c)isa(c,'imref2d')</a>	1	0 s	0.000 s	
<a href="#">imshow&gt;@(c)isa(c,'imref2d')</a>	1	0 s	0.000 s	
<a href="#">imshow&gt;preParseInputs</a>	1	0 s	0.000 s	
<a href="#">imshow&gt;processReduceSyntax</a>	1	0 s	0.000 s	
<a href="#">migrateImshowSettings</a>	1	0 s	0.000 s	
<a href="#">getSettingsRoot</a>	4	0 s	0.000 s	
<a href="#">imageDisplayValidateParams&gt;findImageType</a>	1	0 s	0.000 s	
<a href="#">imageDisplayValidateParams&gt;validateMap</a>	1	0 s	0.000 s	
<a href="#">rmfield</a>	1	0 s	0.000 s	
<a href="#">cellstr</a>	1	0 s	0.000 s	
<a href="#">...playValidateParams&gt;getCDataMapping</a>	1	0 s	0.000 s	
<a href="#">imshow&gt;convertImrefToXDataYData</a>	1	0 s	0.000 s	
<a href="#">newplot&gt;ObserveFigureNextPlot</a>	2	0 s	0.000 s	
<a href="#">cla</a>	2	0 s	0.000 s	
<a href="#">graphics/private/claNotify</a>	2	0 s	0.000 s	
<a href="#">graphics/private/clo</a>	2	0 s	0.000 s	
<a href="#">newplot&gt;ObserveAxesNextPlot</a>	2	0 s	0.000 s	
<a href="#">allchild</a>	1	0 s	0.000 s	
<a href="#">uitools/private/allchildRootHelper</a>	1	0 s	0.000 s	
<a href="#">...set(rootobj,'ShowHiddenHandles',Temp)</a>	1	0 s	0.000 s	
<a href="#">onCleanup&gt;onCleanup.onCleanup</a>	1	0 s	0.000 s	
<a href="#">onCleanup&gt;onCleanup.delete</a>	1	0 s	0.000 s	
<a href="#">...set(rootobj,'ShowHiddenHandles',Temp)</a>	1	0 s	0.000 s	

<a href="#">isSingleImageDefaultPos</a>	1	0 s	0.000 s	
<a href="#">getImWidth</a>	1	0 s	0.000 s	
<a href="#">getImHeight</a>	1	0 s	0.000 s	
<a href="#">isRSetImage</a>	2	0 s	0.000 s	
<a href="#">constrainToWorkArea</a>	1	0 s	0.000 s	
<a href="#">figparams</a>	1	0 s	0.000 s	
<a href="#">initSize&gt;calculateDimensions</a>	4	0 s	0.000 s	
<a href="#">initSize&gt;getGutterWidth</a>	4	0 s	0.000 s	
<a href="#">initSize&gt;getGutterHeight</a>	4	0 s	0.000 s	
<a href="#">findZoomMag&gt;findZoomingOutMag</a>	2	0 s	0.000 s	
<a href="#">initSize&gt;getAxesX</a>	1	0 s	0.000 s	
<a href="#">initSize&gt;getAxesY</a>	1	0 s	0.000 s	

**Self time** is the time spent in a function excluding the time spent in its child functions. Self time also includes overhead resulting from the process of profiling.