# Profile Summary

*Generated 28-Aug-2016 16:24:26 using performance time.*

| Function Name | Calls | Total Time | Self Time * |
|---|---|---|---|
| fastidct | 4713984 | 213.057 s | 213.057 s |
| fastdct | 4713984 | 212.641 s | 212.641 s |
| log_search | 760320 | 108.593 s | 108.593 s |
| dec_huffman_new | 976 | 44.788 s | 44.788 s |
| IntraDecode | 496 | 329.841 s | 34.870 s |
| IntraEncode | 496 | 314.305 s | 23.286 s |
| IntraDecode>blk_transform | 2356992 | 269.123 s | 22.068 s |
| IntraEncode>blk_transform | 2356992 | 270.546 s | 21.886 s |
| enc_huffman_new | 976 | 19.385 s | 19.385 s |
| DCT8x8 | 2356992 | 227.578 s | 14.937 s |
| IDCT8x8 | 2356992 | 226.837 s | 13.781 s |
| ZeroRunEncED | 496 | 13.536 s | 13.536 s |
| ZigZag8x8 | 2356992 | 12.965 s | 12.965 s |
| DeZigZag8x8 | 2356992 | 12.783 s | 12.783 s |
| IntraDecode>split_block | 2356992 | 12.045 s | 12.045 s |
| mat2cell | 2976 | 11.272 s | 11.272 s |
| Quant8x8 | 2356992 | 8.117 s | 8.117 s |
| DeQuant8x8 | 2356992 | 7.434 s | 7.434 s |
| motionEstimation | 480 | 117.906 s | 6.901 s |
| ZeroRunDecED | 496 | 5.959 s | 5.959 s |

| Total Time Plot (dark band = self time) |
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|---|---|---|---|
| motion_compensation | 480 | 6.515 s | 4.180 s |
| cell2mat | 2976 | 3.508 s | 3.508 s |
| images\private\imresizemex (MEX-file) | 1920 | 3.180 s | 3.180 s |
| pic_analysis_bidirect | 192 | 642.437 s | 1.079 s |
| RGB2YCbCr | 304 | 0.890 s | 0.890 s |
| YCbCr2RGB | 304 | 0.662 s | 0.662 s |
| savefig | 1 | 0.756 s | 0.639 s |
| main | 1 | 838.446 s | 0.578 s |
| imresize>resizeAlongDim | 1920 | 3.683 s | 0.498 s |
| imresize>contributions | 1920 | 0.394 s | 0.350 s |
| calcMSE | 304 | 0.340 s | 0.340 s |
| pic_analysis | 96 | 164.044 s | 0.283 s |
| path | 12 | 0.329 s | 0.265 s |
| calcPSNR | 304 | 0.494 s | 0.154 s |
| imresize>parseInputs | 960 | 0.449 s | 0.152 s |
| imresize | 960 | 4.747 s | 0.140 s |
| newplot | 1 | 0.172 s | 0.138 s |
| ylabel | 1 | 0.128 s | 0.128 s |
| general\private\parsedirs | 12 | 0.064 s | 0.063 s |
| imresize>getMethodInfo | 1920 | 0.055 s | 0.055 s |
| GOP | 16 | 806.535 s | 0.053 s |
| stillimage | 16 | 29.656 s | 0.053 s |
| imresize>parsePreMethodArgs | 960 | 0.070 s | 0.053 s |
| imresize>triangle | 1920 | 0.045 s | 0.045 s |
| FigFile.write | 1 | 0.045 s | 0.041 s |
| imresize>findFirstParamString | 960 | 0.035 s | 0.035 s |
| graphics\private\hgsaveStructClass | 1 | 0.043 s | 0.033 s |

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|---|---|---|---|
| imresize>isMethodString | 960 | 0.069 s | 0.033 s |
| timefun\private\formatdate | 21 | 0.044 s | 0.028 s |
| imresize>postprocessImage | 960 | 0.049 s | 0.028 s |
| imresize>isInputIndexed | 2880 | 0.028 s | 0.028 s |
| imresize>fixupSizeAndScale | 960 | 0.048 s | 0.027 s |
| imresize>parseMethodArg | 960 | 0.045 s | 0.026 s |
| cla | 1 | 0.027 s | 0.022 s |
| imread | 21 | 0.193 s | 0.020 s |
| imresize>scaleOrSize | 960 | 0.018 s | 0.018 s |
| imresize>findMethodArg | 960 | 0.086 s | 0.017 s |
| cnv2icudf | 21 | 0.015 s | 0.015 s |
| ima...ivate\readbmpdata>bmpReadData24 | 21 | 0.036 s | 0.015 s |
| imagesci\private\imbmpinfo | 21 | 0.105 s | 0.012 s |
| imresize>deriveSizeFromScale | 960 | 0.012 s | 0.012 s |
| savefig>localGetHandleAndFile | 1 | 0.018 s | 0.011 s |
| imresize>dimensionOrder | 960 | 0.011 s | 0.011 s |
| ima...rivate\readbmpdata>readFromFile | 21 | 0.013 s | 0.011 s |
| axis | 1 | 0.012 s | 0.010 s |
| ima...i\private\initializeMetadataStruct | 21 | 0.067 s | 0.009 s |
| rot90 | 21 | 0.008 s | 0.008 s |
| ...e>isPureNearestNeighborComputation | 2880 | 0.008 s | 0.008 s |
| imagesci\private\isbmp | 21 | 0.007 s | 0.007 s |
| imresize>warnIfPostMethodArgs | 960 | 0.007 s | 0.007 s |
| datestr | 21 | 0.058 s | 0.007 s |
| imagesci\private\imftype | 21 | 0.022 s | 0.007 s |
| ...te\imbmpinfo>readWin3xBitmapHeader | 21 | 0.008 s | 0.007 s |
| imagesci\private\readbmp | 21 | 0.149 s | 0.006 s |
| imresize>parseParamValuePairs | 960 | 0.006 s | 0.006 s |
| imresize>preprocessImage | 960 | 0.008 s | 0.006 s |

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|---|---|---|---|
| imresize>checkForMissingOutputArgument | 960 | 0.009 s | 0.005 s |
| mean | 32 | 0.005 s | 0.005 s |
| imresize>fixupSize | 960 | 0.005 s | 0.005 s |
| processSaveArguments | 1 | 0.007 s | 0.005 s |
| xlabel | 1 | 0.005 s | 0.005 s |
| imresize>fixupScale | 960 | 0.005 s | 0.005 s |
| newplot>ObserveAxesNextPlot | 1 | 0.031 s | 0.004 s |
| timefun\private\dateformverify | 21 | 0.048 s | 0.004 s |
| findall | 1 | 0.005 s | 0.004 s |
| UnsupportedInUifigure>isWebFigure | 1 | 0.004 s | 0.004 s |
| imformats>find_in_registry | 21 | 0.004 s | 0.004 s |
| title | 1 | 0.004 s | 0.004 s |
| FigFile.write>localGetV2Data | 1 | 0.004 s | 0.004 s |
| onCleanup>onCleanup.onCleanup | 46 | 0.004 s | 0.004 s |
| graphics\private\clo | 1 | 0.004 s | 0.004 s |
| imformats | 21 | 0.008 s | 0.003 s |
| ...\imbmpinfo>initializeBMPInfoStruct | 21 | 0.070 s | 0.003 s |
| unique>uniqueR2012a | 2 | 0.003 s | 0.003 s |
| datestr>getdateform | 21 | 0.003 s | 0.003 s |
| close>safegetchildren | 1 | 0.007 s | 0.003 s |
| imagesci\private\imbmpinfo>readBMPInfo | 21 | 0.016 s | 0.003 s |
| onCleanup>onCleanup.delete | 46 | 0.005 s | 0.003 s |
| gobjects | 2 | 0.003 s | 0.003 s |
| imagesci\private\imbmpinfo>readWin3xInfo | 21 | 0.013 s | 0.002 s |
| unique | 2 | 0.005 s | 0.002 s |
| imagesci\private\imbmpinfo>getSignature | 21 | 0.002 s | 0.002 s |
| ima...ate\imbmpinfo>readBMPFileHeader | 21 | 0.002 s | 0.002 s |
| FigFile.FigFile>FigFile.FigFile | 1 | 0.002 s | 0.002 s |
| imread>parse_inputs | 21 | 0.002 s | 0.002 s |

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|---|---|---|---|
| allchild | 1 | 0.004 s | 0.002 s |
| imagesci\private\readbmpdata | 21 | 0.038 s | 0.002 s |
| imagesci\private\imbmpinfo>postProcess | 21 | 0.001 s | 0.001 s |
| allchild>getchildren | 1 | 0.001 s | 0.001 s |
| axis>LocSetLimits | 1 | 0.002 s | 0.001 s |
| fileparts | 1 | 0.001 s | 0.001 s |
| ...te\imbmpinfo>readVersion3xColormap | 21 | 0.001 s | 0.001 s |
| graph2d\private\labelcheck | 3 | 0.001 s | 0.001 s |
| ishold | 2 | 0.001 s | 0.001 s |
| UnsupportedInUifigure | 1 | 0.006 s | 0.001 s |
| graphics\private\claNotify | 1 | 0.001 s | 0.001 s |
| close | 1 | 0.009 s | 0.001 s |
| ima...rivate\imbmpinfo>@()fclose(fid) | 21 | 0.001 s | 0.001 s |
| ima...vate\readbmpdata>@()fclose(fid) | 21 | 0.001 s | 0.001 s |
| graphics\private\hgsaveObject | 1 | 0.001 s | 0.001 s |
| filesep | 12 | 0.001 s | 0.001 s |
| ima...ate\imbmpinfo>decodeCompression | 21 | 0.001 s | 0.001 s |
| pathsep | 12 | 0.001 s | 0.001 s |
| ...>showHiddenHandlesToFindAllHandles | 1 | 0.000 s | 0.000 s |
| processSaveArguments>localIsValidHGArray | 1 | 0.000 s | 0.000 s |
| ...ts>GraphicsObjects.GraphicsObjects | 1 | 0.000 s | 0.000 s |
| markFigure | 2 | 0.000 s | 0.000 s |
| close>getEmptyHandleList | 1 | 0.000 s | 0.000 s |
| newplot>ObserveFigureNextPlot | 1 | 0.000 s | 0.000 s |
| FigFile.FigFile>FigFile.set.Format3Data | 1 | 0.000 s | 0.000 s |
| FigFile.FigFile>localDefaultV2Struct | 2 | 0.000 s | 0.000 s |
| FigFile.FigFile>FigFile.set.FigFormat | 1 | 0.000 s | 0.000 s |
| FigFile.FigFile>localVerifyStruct | 1 | 0.000 s | 0.000 s |
| FigFile.FigFile>FigFile.set.Format2Data | 1 | 0.001 s | 0.000 s |

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|---|---|---|---|
| axis>allAxes | 1 | 0.000 s | 0.000 s |
| ...>FigFile.set.RequiredMatlabVersion | 1 | 0.000 s | 0.000 s |
| FigFile.FigFile>localVerifyObject | 1 | 0.000 s | 0.000 s |
| ...set(rootobj,'ShowHiddenHandles',Temp) | 1 | 0.000 s | 0.000 s |
| ...set(rootobj,'ShowHiddenHandles',Temp) | 1 | 0.000 s | 0.000 s |
| uitools\private\allchildRootHelper | 1 | 0.000 s | 0.000 s |
| savefig>localIsFigureArray | 1 | 0.000 s | 0.000 s |
| ...figure>@()lastwarn(lastmsg,lastid) | 1 | 0.000 s | 0.000 s |
| FigFile.FigFile>localIsHG | 1 | 0.000 s | 0.000 s |
| UnsupportedInUifigure>@()warning(w) | 1 | 0.000 s | 0.000 s |
| ispc | 1 | 0.000 s | 0.000 s |
| close>request_close | 1 | 0.000 s | 0.000 s |
| close>checkfigs | 1 | 0.000 s | 0.000 s |

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

tions.