## Profile Summary (Total time: 1360.678 s)

Generated 21-May-2023 22:20:46 using performance time.

Function Name	Calls	Total Time (s) <sup>↓</sup>	Self Time* (s)	Total Time Plot (dark band = self time)
classificationres	1	1360.667	1.911	
runSpringerSegmentationAlgorithm	3240	1119.528	0.289	
viterbiDecodePCG_Springer	3240	834.263	91.254	
viterbi_Springer (MEX-file)	3240	486.481	486.481	
getSpringerPCGFeatures	3240	242.460	2.306	
spectrogram	6480	233.923	0.361	
signal\private\pspectrogram	6480	233.538	4.126	
signal\private\computeDFT	6480	199.527	1.252	
signal\private\computeDFT>computeDFTviaCZT	6480	197.889	0.200	
<u>czt</u>	6480	197.689	197.167	
<u>extractFeaturesFromHsIntervals</u>	3240	190.721	2.271	
<u>mvnpdf</u>	15110444	179.625	114.719	
calculate_energy	3240	149.347	17.739	
get_PSD_feature_Springer_HMM	3240	132.524	4.324	
cell2mat	30233848	71.551	71.551	•
cholcov	15110444	64.906	64.906	•
<u>getHeartRateSchmidt</u>	3240	41.209	1.604	
getDWT	3240	40.623	9.725	II.
audioread	3240	36.013	0.503	
resample	16200	33.621	1.394	ı
audioread>readaudio	3240	32.673	2.069	ı
Homomorphic Envelope with Hilbert	6480	29.580	3.995	ı
<u>uniformResample</u>	16200	29.093	2.672	ı
filtfilt	19440	25.618	0.615	ı
<u>spectralEntropy</u>	3240	25.387	3.083	
filtfilt>efiltfilt	19440	24.068	0.768	ı
preprocess	3240	22.304	1.084	ı
createFilter	16200	21.109	2.270	ı
hilbert	9720	20.860	0.107	
hilbert>hilbert_ml	9720	20.724	20.537	ı
<u>stft</u>	3240	20.483	3.578	
filtfilt>ffOneChan	15798	18.149	18.149	ı
<u>buffer</u>	3240	16.847	16.842	ı
<u>getSTFTColumns</u>	6480	15.949	15.949	ı
appcoef	9720	15.133	0.985	I
<u>absolutePathForReading</u>	3240	14.692	1.044	
butterworth_low_pass_filter	6480	13.641	0.105	ı
wavedec	3240	12.912	1.841	I
signal entropy	3240	12.534	0.217	
histogram_signalEntropy	3240	12.317	12.317	ı
butterworth high pass filter	6480	12.191	0.370	
<u>butter</u>	19440	11.290	0.504	I
firls	16200	11.083	0.290	I
firls>eFirls	16200	10.726	6.413	
<del></del>	1	T. Comments	1	

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xcorr	3240	9.405	0.116	I
signal\private\pspectrogram>compute_PSD	3240	9.339	6.741	I
xcorr>autocorr	3240	9.015	8.313	I
dwt	9720	8.814	3.292	I
spectral_entropy	3240	8.575	6.136	I
<u>idwt</u>	9720	8.418	1.501	I
FilePath>FilePath.get.Exists	9720	8.153	8.153	I
kaiser	16200	7.673	6.240	I
Hilbert_Envelope	3240	7.596	0.768	I
wfilters	12960	7.212	1.138	I
upsconv1	19440	6.624	0.264	
Channel>Channel.Channel	3240	6,222	4.440	
prctile	9720	5.935	5.701	
wconv1	38880	5.434	0.966	
schmidt_spike_removal	6480	5.172	4.959	
mnrval	12960	5.006	3.050	
FilePath>FilePath.get.Absolute	3240	4.874	2.438	
FilePath>FilePath,get,Readable	3240	4.811	2.364	
conv	38880	4.469	4.469	
<u>upfirdn</u>	16200	4.364	0.360	
sinc	64800	4.127	4.127	
wkeep1	38880	4.045	3.948	
guantile	6480	3.865	0.074	
filtfilt>ffOneChanCat	3642	3.793	3.786	
skewness	3240	3.547	2.997	
xlsread	1	3.489	0.006	
wavemngr	25920	3.487	3.050	
kurtosis	3240	3.484	2.983	
iofun\private\xlsreadCOM	1	3.473	0.009	
zp2ss	19440	3.410	1.154	
hamming	9720	3.327	0.128	
InputStream>InputStream.read	3240	3.307	0.877	
signal/private/gencoswin	9720	3.168	0.274	
tabular.braceAssign	3240	3.104	0.674	
mean mean	84204	3.025	2.494	
welchparse	6480	2,955	0.293	
PluginManager>PluginManager.getPluginForRead	3240	2.778	2.396	
iofun\private\xlsreadCOM>segmentedRead	1	2.757	2.698	
	16200	2.671	2.671	
signal\private\upfirdnmex (MEX-file)				
RemoteToLocal>RemoteToLocal.RemoteToLocal	3240	2.610	0.118	
<u>computepsd</u>	3240	2.599	2.599	
sharedParser	16200	2.549	0.817	
wextend	9720	2.523	0.156	
RemoteToLocal>RemoteToLocal.hasHTTPSPrefix	3240	2.478	2.478	
InputStream>InputStream.readPackets	3872	2.409	2.409	
wextend	9720	2.366	0.184	
igr	3240	2.185	0.041	
wextend>makeSym	9720	2.183	2.183	
signal\private\gencoswin>sym_window	9720	2.165	0.941	
<u>isUnderlyingType</u>	142560	2.151	1.674	

tabular.oneLevelParenAssign	3240	1.980	1,605	
std	48564	1.684	0.297	
sigcasttofloat	45360	1,634	0.564	
dyadup	19440	1.586	1.586	
poly.	51840	1,566	1,566	
	25920	1.498	0.202	
nanmean				
rbiowavf	12960	1.444	0.214	
<u>median</u>	17330	1.410	1.410	
var	48564	1.387	1.259	
detcoef	19440	1.372	1.372	
<u>sigcheckfloattype</u>	64800	1,365	1,365	
filtfilt>getCoeffsAndInitialConditions	19440	1,358	1.122	
sharedParser>dimParser	16200	1.344	0.657	
<u>upfirdnParser</u>	16200	1.333	0.741	
expand_qt	3240	1.307	1.307	
bilinear	19440	1.289	0.935	
biorwavf	12960	1,229	0.335	
cplxpair	38880	1.184	0.991	
audioread>@()delete(durationListener)	3240	1.178	0.315	
welchparse>welch_options	6480	1,153	0.491	
mad	3240	1,092	0.645	
welchparse>segment_info	6480	1.088	0.129	
signal\private\gencoswin>calc_window	9720	1.033	1.033	
<u>lp2lp</u>	12960	1.027	0.491	
normalise_signal	12960	1.019	0.187	
abcdchk	38880	0.974	0.905	
bandpower	3240	0.958	0.129	
validatestring	12960	0.926	0.286	
buttap	19440	0.908	0.549	
uniformParser	16200	0.889	0.274	
Channel>Channel.delete	3240	0.862	0.486	
biorfilt	12960	0.862	0.367	
<u>getParamVal</u>	25920	0.858	0.140	
errorlf	417960	0.857	0.857	
str2num	25920	0.814	0.171	
bandpower>timedomainbandpower	3240	0.805	0.501	
audioread>@()channel.close()	3240	0.775	0.037	
Channel>Channel.open	3240	0.774	0.342	
Stream-Stream	6480	0.749	0.529	
Channel>Channel.close	3240	0.738	0.392	
getParamVal	25920	0.717	0.471	
target	317520	0.703	0.703	
xcorr>findTransformLength	3240	0.702	0.702	
FilePath>FilePath.FilePath	3240	0.692	0.702	
riptorValidator>SpectralDescriptorValidator.SpectralDescriptorValidator	3240	0.692	0.342	
str2num>protected_conversion	25920	0.643	0.643	
signal\private\pspectrogram>nonConjugateTransposeOutputs	6480	0.636	0.636	
parseArgs	12960	0.622	0.438	
psdoptions	6480	0.620	0.532	
iofun\private\xlsreadSplitNumericAndText	1	0.566	0.560	

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InputStream>InputStream.InputStream	3240	0.557	0.056	
<u>lp2hp</u>	6480	0.534	0.330	
Channel>Channel.postlnit	3240	0.502	0.502	
fileparts	9725	0.490	0.126	
signal\private\iirchk	19440	0.484	0.452	
stats\private\stattestlink	12960	0.477	0.477	
zp2ss>parse_input	19440	0.452	0.400	
<u>orientToNdim</u>	16200	0.448	0.351	
isodd	51840	0.421	0.333	
validatestring≥checkString	12960	0.412	0.412	
welchparse>parse_inputs	6480	0.410	0.378	
rat	16200	0.395	0.395	
shiftdim	38880	0.380	0.380	
fileparts>legacyPCExecution	9725	0.363	0.363	
Channel>Channel.isOpen	9720	0.355	0.355	
<u>orthfilt</u>	25920	0.354	0.173	
PluginManager>PluginManager.errorIfUnsupportedFile	3240	0.347	0.134	
wavemngr>noblank	155520	0.337	0.337	
<u>audioread&gt;validateDataType</u>	3240	0.332	0.045	
<u>isStringScalar</u>	139320	0.318	0.318	
OutputStream>OutputStream,OutputStream	3240	0.304	0.029	
Channel>Channel.preOpen	3240	0.304	0.304	
getSpectrogramOptions	6480	0.303	0.173	
default Springer HSMM options	9721	0.293	0.293	
const	32400	0.286	0.286	
signal\private\check_order	25920	0.282	0.282	
assert	106920	0.281	0.281	
mean>mysize	84204	0.278	0.278	
butter>buttzeros	19440	0.272	0.272	
nullcopy	77760	0.269	0.269	
sharedParser>countNumericInputs	32400	0.261	0.223	
signal\private\isodd	19440	0.260	0.093	
Stream>Stream,addFilter	3240	0.255	0.255	
tabularDimension>tabularDimension.subs2inds	9720	0.254	0.162	
mean>parseInputs	25920	0.253	0.207	
cellstr	25920	0.246	0.246	
sharedParser>getInterpMethod	16200	0.236	0.179	
isUnderlyingType>ilsScalarText	142560	0.233	0.233	
nextpow2	12960	0.232	0.232	
<u>deblankl</u>	25920	0.232	0.232	
varNamesDim>varNamesDim,subs2inds	6479	0.231	0.111	
validatestring>checkInputs	12960	0.228	0.228	
getUniformApprox	6480	0.224	0.122	
<u>validateResampleRatio</u>	16200	0.224	0.221	
Stream-Stream.isSupported	6480	0.221	0.221	
Channel>Channel,postClose	3240	0.220	0.220	
escriptorValidator>SpectralDescriptorValidator.validateOptionalInputs	3240	0.208	0.155	
mat2cell	3240	0.208	0.208	
FilePath>FilePath,set,Extension	3240	0.202	0.079	
get_duration_distributions	3240	0.195	0.097	

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1972   0.182   0.081					
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asymphotometricitis     15000     0.154     0.154     0.154     0.154     0.154     0.154     0.154     0.154     0.154     0.154     0.154     0.154     0.154     0.154     0.154     0.154     0.154     0.154     0.152     0.154     0.102     0.154     0.102     0.154     0.102     0.154     0.102     0.154     0.102     0.154     0.102     0.154     0.102 <td></td> <td></td> <td></td> <td></td> <td></td>					
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erase     \$240     0.123     0.081     Chance-Channel profem       Cachestlysce     6480     0.121     0.124     Chance-Channel profem       Cachestlysce     6480     0.121     0.108     Chance-Channel profess       Carriary Could on Professor     3240     0.112     0.112     Chance-Channel professor       Carriary Could on Professor     3240     0.108     0.034     Channel professor       Carriary Could on Professor     3240     0.096     0.092     Channel professor       Cachellona Professor     3240     0.098     0.092     Channel professor       Cachellona Professor     4880     0.092     0.092     Channel professor       Cachellona Professor     12900     0.083     0.093     Channel professor       Cachellona Professor     12900     0.083     0.083     Channel professor       United Channel Lucida Andréset Lock Court     6480     0.078     0.075     Channel Professor       Channel Channel Lucida Andréset Lock Court     6480     0.075     0.075     Channel Professor       Channel Channel Lucida Andréset Lock Court					
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codedatyine     6480     0.121     0.105     Common Control		3240	0.121	0.121	
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	iofun\private\openExcelWorkbook	1	0.118	0.088	
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mustile Member     3240     0.095     0.045     Conceptions       Stream-Stream delete     6480     0.092     0.092     Conceptions       packpotinose reads apelinputArq     12860     0.088     0.089     Conceptions       packpotinose reads apelinputArq     6200     0.080     0.083     0.083       packpotinose reads apelinputArq     6480     0.080     0.080     0.080       packpotinose reads apelinputArq     6480     0.080     0.080     0.081       packpotinose reads apelinputArq     6480     0.078     0.078     0.078       packpotinose reads apelinputArq     6480     0.075     0.075     0.072       packpotinose reads apelinputArg     6480     0.072     0.072     0.072       packpotinose reads apelinputArg     9720     0.068     0.068     0.061       packpotinose reads pectroargame chinqual     8480     0.068     0.061     0.061       packpotinose reads pectroargame chinqual     8240     0.062     0.062     0.062       packpotinose reads pectroargame chinqual reads apelinputatinose pectroargame chinqual reads apelinputatino	audioread>validateRange	3240	0.106	0.034	
paddoptions=reshaneInputArg     12960     0.088     0.069     □       createFilter-computeZeroPadLength     16200     0.083     0.083     □       signaliprivate(aspectrogram>computeReassign     6480     0.080     0.080     □       litick     25954     0.090     0.080     □       Channels-Channel undateAnd Fetch LockCount     6480     0.075     0.075     □       duitorade-validateRangeWithTotalSamedes     3240     0.075     0.075     □       signaliprivate(aspectrogram>chkinput     6480     0.068     0.068     □       signaliprivate(aspectrogram>chkinput     6480     0.068     0.068     □       MessasgeHandler-MessageHandler MessageHandler     3240     0.068     0.068     □       Channels-Channel unlock     3240     0.064     0.027     □       variate     23082     0.062     0.062     □       isignaliprivate(aspectrogram>processFrequencyOptions     6480     0.059     0.059     □       isignaliprivate(aspectrogram>processFrequencyOptions     6480     0.059     0.059     □ </td <td>-</td> <td>3240</td> <td>0.095</td> <td>0.045</td> <td></td>	-	3240	0.095	0.045	
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Signaltorivate/ospectrogram-computeReassign	psdoptions>reshapeInputArg	12960	0.088	0.069	
flight     25954     0.080     0.080       linspace     6480     0.078     0.078       Channel>Channel undateAndFetchLockCount     6480     0.075     0.075       audioread>validateRangeWithTotalSamples     3240     0.072     0.072       crctile>dominantTypeHelper     9720     0.068     0.068       signaltorivatelospectrogram>chkinput     6480     0.068     0.041       MessageHandler-MessageHandler MessageHandler     3240     0.068     0.068       Channel-Channel unlock     3240     0.064     0.027       varsize     23082     0.062     0.062       signaltorivatelospacetrogram>crocessFrequencyOptions     6480     0.059     0.059       isConstTue     16200     0.054     0.059     0.059       isConstTue     3240     0.060     0.007     0.007       cell.ismember     3240     0.060     0.060     0.007       idbular,size     3240     0.048     0.048     0.048       num2sit     454     0.047     0.016     0.006 <td< td=""><td>createFilter&gt;computeZeroPadLength</td><td>16200</td><td>0.083</td><td>0.083</td><td></td></td<>	createFilter>computeZeroPadLength	16200	0.083	0.083	
Linsbace     6480     0.078     0.078       Channel-Channel undateAndFetchLockCount     6480     0.075     0.075       audioreadz-validateRangeWithTotalSamoles     3240     0.072     0.072       protilez-dominantTypeHelper     9720     0.068     0.068       signalprivatelospectrogram>chkinput     6480     0.068     0.041       MessageHandler-MessageHandler     3240     0.068     0.068       Channel-Channel unlock     3240     0.064     0.027       varsize     23082     0.062     0.062       signalprivatelospectrogram≥processFrequencyOptions     6480     0.059     0.059       isConstTrue     16200     0.054     0.054     0.054       iofurlprivatelxisreadCOM>rowCol2A1     210     0.053     0.007     0.006       indZsub     3240     0.049     0.049     0.049       indZsub     3240     0.048     0.048     0.048       ibular,size     3240     0.048     0.048     0.048       num2str     454     0.047     0.016     0.046 </td <td>signal\private\pspectrogram&gt;computeReassign</td> <td>6480</td> <td>0.080</td> <td>0.080</td> <td></td>	signal\private\pspectrogram>computeReassign	6480	0.080	0.080	
Channel-Channel updateAndFetchLockCount     6480     0.075     0.075       audioread>validateRangeWithTotalSamoles     3240     0.072     0.072       prctile=dominantTypeHelper     9720     0.068     0.068       signalprivatelipsrectrogram>chkinput     6480     0.068     0.041       MessageHandler>MessageHandler MessageHandler     3240     0.068     0.068       Channel>Channel unlock     3240     0.064     0.027       varsize     23082     0.062     0.062       signalprivatelipspectrogram>processFrequencyOptions     6480     0.059     0.059       isConstTrue     16200     0.054     0.054       iofuniprivatelyIsreadCOM>rowColZA1     210     0.053     0.007       cell.ismember     3240     0.049     0.049       ind2sub     3240     0.048     0.048       cwNamesDim>rowNamesDim.lengthenTo     3240     0.048     0.048       umm2str     454     0.047     0.016       mean>isInvalidText     25920     0.046     0.045       signalprivatelyaspectrogram>formatSpectrogram	flipIr	25954	0.080	0.080	
audioread>validateRangeWithTotalSamples     3240     0.072     0.072       pccilie≥dominantTypeHelper     9720     0.068     0.068       signalprivate\pspectrogram≥chkinput     6480     0.068     0.041       MessageHandler>MessageHandler     3240     0.068     0.088       Channel-Channel.unlock     3240     0.064     0.027       varsize     23082     0.062     0.062       signalprivate\pspectrogram>processFrequencyOptions     6480     0.059     0.059       isConstTrue     16200     0.054     0.054       ofunlyprivate\styreadCOM>rowCol2A1     210     0.053     0.007       ind2sub     3240     0.049     0.049       rowNamesDim>rowNamesDimIengthenTo     3240     0.048     0.048       tabular.size     3240     0.048     0.048       num2sir     454     0.047     0.016       mean>isInvalidText     25920     0.046     0.045       signalprivate\pspectrogram>formatSpectrogram     6480     0.045     0.045       tabular.disp     1     0.043	linspace	6480	0.078	0.078	
pctile≥dominantTypeHelper     9720     0.068     0.068       signalprivate\pspectrogram≥chkinput     6480     0.068     0.041       MessageHandler≥MessageHandler     3240     0.068     0.068       Channel≥Channel_unlock     3240     0.064     0.027       varsize     23082     0.062     0.062       signalprivate\pspectrogram≥processFrequencyOptions     6480     0.059     0.059       isConstTrue     16200     0.054     0.054       iofunlprivate\useradCOM>rowCot2A1     210     0.053     0.007       cell.ismember     3240     0.049     0.049       ind2sub     3240     0.048     0.048       rowNamesDim>rowNamesDim.lengthenTo     3240     0.048     0.048       iabular.size     3240     0.048     0.048       num2sir     454     0.047     0.016       mean-sinvalidText     25920     0.046     0.046       signalprivate\pspectrogram>formatSpectrogram     6480     0.045     0.045       tabular.disq     1     0.043     0.025 <tr< td=""><td>Channel&gt;Channel.updateAndFetchLockCount</td><td>6480</td><td>0.075</td><td>0.075</td><td></td></tr<>	Channel>Channel.updateAndFetchLockCount	6480	0.075	0.075	
signal/privatel/pspectrogram>chkinput     6480     0.068     0.041       MessageHandler>MessageHandler     3240     0.068     0.027       Channel>Channel_unlock     3240     0.064     0.027       varsize     23082     0.062     0.062       signal/privatel/pspectrogram>processFrequencyOptions     6480     0.059     0.059       isConstTrue     16200     0.054     0.054       iofun/privatelxIsreadCOM>rowCol2A1     210     0.053     0.007       cell.ismember     3240     0.050     0.050       ind2sub     3240     0.049     0.049       rowNamesDim>rowNamesDim.lengthenTo     3240     0.048     0.048       tabular.size     3240     0.048     0.048       num2str     454     0.047     0.016       mean≥isInvalidText     25920     0.046     0.046       signalprivatel/pspectrogram>formatSpectrogram     6480     0.045     0.045       tabular.disp     1     0.043     0.025       Remote ToLocal>Remote ToLocal.delete     3240     0.039     0.039	audioread>validateRangeWithTotalSamples	3240	0.072	0.072	
MessageHandler>MessageHandler MessageHandler     3240     0.068     0.068       Channel>Channel.unlock     3240     0.064     0.027       varsize     23082     0.062     0.062       signal\trivate\topspectrogram>processFrequencyOptions     6480     0.059     0.059       isConstTrue     16200     0.054     0.054       iofun\private\tx\sreadCOM>rowCol2A1     210     0.053     0.007       cell.ismember     3240     0.050     0.050       ind2sub     3240     0.049     0.049       towNamesDim>rowNamesDim.lengthenTo     3240     0.048     0.048       tabular.size     3240     0.048     0.048       num2str     454     0.047     0.016       mean≥isInvalidText     25920     0.046     0.046       signal\trivate\topspectrogram>formatSpectrogram     6480     0.045     0.045       tabular.disp     1     0.043     0.025       RemoteToLocal>RemoteToLocal.delete     3240     0.040     0.025       gather     3240     0.039     0.039	prctile>dominantTypeHelper	9720	0.068	0.068	
Channel>Channel unlock     3240     0.064     0.027       Varsize     23082     0.062     0.062       signal/private/pspectrogram>processFrequencyOptions     6480     0.059     0.059       isConstTrue     16200     0.054     0.054       iofun/private/uxlsreadCOM>rowCol2A1     210     0.053     0.007       cell ismember     3240     0.050     0.050       ind2sub     3240     0.049     0.049       rowNamesDim>rowNamesDim.lengthenTo     3240     0.048     0.048       tabular.size     3240     0.048     0.048       num2str     454     0.047     0.016       mean>isInvalidText     25920     0.046     0.046       signal/private/pspectrogram>formatSpectrogram     6480     0.045     0.045       tabular.disp     1     0.043     0.025       RemoteToLocal>RemoteToLocal.delete     3240     0.040     0.025       gather     3240     0.039     0.039     0.039	signal\private\pspectrogram>chkinput	6480	0.068	0.041	
varsize     23082     0.062     0.062       signal\private\pspectrogram>processFrequencyOptions     6480     0.059     0.059       isConstTrue     16200     0.054     0.054       iofun\private\x\sreadCOM>rowCol2A1     210     0.053     0.007       cell.ismember     3240     0.050     0.050       ind2sub     3240     0.049     0.049       rowNamesDim>rowNamesDim.lengthenTo     3240     0.048     0.048       tabular.size     3240     0.048     0.048       num2str     454     0.047     0.016       mean>isInvalidText     25920     0.046     0.045       signal\private\pspectrogram>formatSpectrogram     6480     0.045     0.045       tabular.disp     1     0.043     0.025       RemoteToLocal>RemoteToLocal.delete     3240     0.040     0.025       gather     3240     0.039     0.039       num2cell     3240     0.039     0.039	MessageHandler>MessageHandler,MessageHandler	3240	0.068	0.068	
signal\private\pspectrogram>processFrequencyOptions     6480     0.059     0.059       isConstTrue     16200     0.054     0.054       iofun\private\xisreadCOM>rowCot2A1     210     0.053     0.007       cell.ismember     3240     0.050     0.050       ind2sub     3240     0.049     0.049       rowNamesDim>rowNamesDim.lengthenTo     3240     0.048     0.048       tabular.size     3240     0.048     0.048       num2str     454     0.047     0.016       mean>isInvalidText     25920     0.046     0.046       signal\private\pspectrogram>formatSpectrogram     6480     0.045     0.045       tabular.disp     1     0.043     0.025       RemoteToLocal>RemoteToLocal.delete     3240     0.040     0.025       gather     3240     0.039     0.039       num2cell     3240     0.039     0.039	Channel>Channel.unlock	3240	0.064	0.027	
isConstTrue   16200   0.054   0.054     iofun\private\xlsreadCOM>rowCol2A1   210   0.053   0.007     cell.ismember   3240   0.050   0.050     ind2sub   3240   0.049   0.049     rowNamesDim>rowNamesDim.lengthenTo   3240   0.048   0.048     tabular.size   3240   0.048   0.048     num2str   454   0.047   0.016     mean>isInvalidText   25920   0.046   0.046     signal\private\pspectrogram>formatSpectrogram   6480   0.045   0.045     tabular.disp   1   0.043   0.025     Remote ToLocal>Remote ToLocal.delete   3240   0.040   0.025     gather   3240   0.039   0.039     num2cell   3240   0.039   0.039	varsize	23082	0.062	0.062	
iofun\private\x\sreadCOM>rowCol2A1     210     0.053     0.007       cell.ismember     3240     0.050     0.050       ind2sub     3240     0.049     0.049       rowNamesDim>rowNamesDim.lengthenTo     3240     0.048     0.048       tabular.size     3240     0.048     0.048       num2str     454     0.047     0.016       mean>isInvalidText     25920     0.046     0.046       signal\private\pspectrogram>formatSpectrogram     6480     0.045     0.045       tabular.disp     1     0.043     0.025       RemoteToLocal>RemoteToLocal.delete     3240     0.040     0.025       gather     3240     0.039     0.039       num2cell     3240     0.039     0.039	signal\private\pspectrogram>processFrequencyOptions	6480	0.059	0.059	
cell.ismember   3240   0.050   0.050     ind2sub   3240   0.049   0.049     rcwNamesDim>rcwNamesDim.lengthenTo   3240   0.048   0.048     tabular.size   3240   0.048   0.048     num2str   454   0.047   0.016     mean>isInvalidText   25920   0.046   0.046     signallprivate\pspectrogram>formatSpectrogram   6480   0.045   0.045     tabular.disp   1   0.043   0.025     RemoteToLocal>RemoteToLocal.delete   3240   0.040   0.025     gather   3240   0.039   0.039     num2cell   3240   0.039   0.039	<u>isConstTrue</u>	16200	0.054	0.054	
ind2sub     3240     0.049     0.049       rowNamesDim>rowNamesDim.lengthenTo     3240     0.048     0.048       tabular.size     3240     0.048     0.048       num2str     454     0.047     0.016       mean>isInvalidText     25920     0.046     0.046       signal\private\pspectrogram>formatSpectrogram     6480     0.045     0.045       tabular.disp     1     0.043     0.025       RemoteToLocal>RemoteToLocal.delete     3240     0.040     0.025       gather     3240     0.039     0.039       num2cell     3240     0.039     0.039	iofun\private\xlsreadCOM>rowCol2A1	210	0.053	0.007	
rowNamesDim>rowNamesDim.lengthenTo     3240     0.048     0.048       tabular,size     3240     0.048     0.048       num2str     454     0.047     0.016       mean>islnvalidText     25920     0.046     0.046       signal\private\pspectrogram>formatSpectrogram     6480     0.045     0.045       tabular.disp     1     0.043     0.025       RemoteToLocal>RemoteToLocal.delete     3240     0.039     0.039       gather     3240     0.039     0.039       num2cell     3240     0.039     0.039	cell.ismember	3240	0.050	0.050	
tabular.size   3240   0.048   0.048     num2str   454   0.047   0.016     mean>isInvalidText   25920   0.046   0.046     signal\private\pspectrogram>formatSpectrogram   6480   0.045   0.045     tabular.disp   1   0.043   0.025     RemoteToLocal>RemoteToLocal.delete   3240   0.040   0.025     gather   3240   0.039   0.039     num2cell   3240   0.039   0.039	ind2sub	3240	0.049	0.049	
num2str   454   0.047   0.016     mean>isInvalidText   25920   0.046   0.046     signal\private\pspectrogram>formatSpectrogram   6480   0.045   0.045     tabular.disp   1   0.043   0.025     RemoteToLocal>RemoteToLocal.delete   3240   0.040   0.025     gather   3240   0.039   0.039     num2cell   3240   0.039   0.039	rowNamesDim>rowNamesDim.lengthenTo	3240	0.048	0.048	
mean>isInvalidText     25920     0.046     0.046       signal\private\pspectrogram>formatSpectrogram     6480     0.045     0.045       tabular.disp     1     0.043     0.025       RemoteToLocal>RemoteToLocal.delete     3240     0.040     0.025       gather     3240     0.039     0.039       num2cell     3240     0.039     0.039	tabular, size	3240	0.048	0.048	
signal\private\pspectrogram>formatSpectrogram     6480     0.045     0.045       tabular.disp     1     0.043     0.025       RemoteToLocal>RemoteToLocal.delete     3240     0.040     0.025       gather     3240     0.039     0.039       num2cell     3240     0.039     0.039	num2str	454	0.047	0.016	
tabular.disp     1     0.043     0.025       RemoteToLocal>RemoteToLocal.delete     3240     0.040     0.025       gather     3240     0.039     0.039       num2cell     3240     0.039     0.039	mean>isInvalidText	25920	0.046	0.046	
RemoteToLocal>RemoteToLocal.delete     3240     0.040     0.025       gather     3240     0.039     0.039       num2cell     3240     0.039     0.039	signal\private\pspectrogram>formatSpectrogram	6480	0.045	0.045	
gather     3240     0.039     0.039       num2cell     3240     0.039     0.039	<u>tabular.disp</u>	1	0.043	0.025	
<u>num2cell</u> 3240 0.039 0.039	RemoteToLocal>RemoteToLocal.delete	3240	0.040	0.025	
	gather	3240	0.039	0.039	
<u>unique&gt;uniqueR2012a</u> 3241 0.038 0.038	num2cell	3240	0.039	0.039	
	unique>uniqueR2012a	3241	0.038	0.038	

PluginManager>PluginManager,errorIfFile	9720	0.035	0.035
PluginManager>PluginManager,handlePluginError	3240	0.034	0.034
InputStream>InputStream,clearPartialPacket	3240	0.028	0,028
strfun\private\convertStringToOriginalTextType	3240	0.028	0.028
Channel>Channel,validateStreamLimits	3240	0,026	0,026
int2str	420	0.025	0.025
isColon	12961	0.023	0.023
InputStream>InputStream.readPartialPacket	3240	0.021	0.021
setProperties	3240	0.018	0.018
Channel>@(x)isstruct(x)  isempty(x)	3240	0.017	0.017
registerevent	1	0.017	0.006
varNamesDim>varNamesDim.orientAs	6479	0.017	0.017
iofun\private\xlsreadCOM>@()xlsCleanup(Excel,file,workbookState)	1	0.017	0.001
iofun\private\xlsCleanup	1	0.016	0.016
RemoteToLocal>RemoteToLocal.deletelfLocalCopy	3240	0.015	0.015
strfun\private\isTextStrict	3240	0.015	0.015
<u>isCharVector</u>	3240	0.014	0.014
tabular,dotAssign	1	0.012	0.006
varNamesDim>varNamesDim.createLike	1	0.012	0.001
getFileInfoForToolstrip	2	0.011	0.011
rowNamesDim>rowNamesDim,orientAs	3241	0.011	0.011
tabularDimension>tabularDimension.createLike	1	0.011	0.001
columnLetter	420	0.010	0.010
tabularDimension>tabularDimension.setLabels	1	0.010	0.001
tabular,parenReference	1	0.009	0.005
metaDim>metaDim,checkAgainstVarLabels	1	0.009	0.001
unregisterevent	1	0.009	0.002
varNamesDim>varNamesDim.validateAndAssignLabels	1	0.009	0.003
<u>makeUniqueStrings</u>	1	0.008	0.002
iofun\private\xlsreadCOM>activate_sheet	1	0.007	0.007
getExcelInstance	1	0.006	0.002
winfun\private\removeevent	1	0.006	0.006
registerevent>addevent	1	0.006	0.006
varNamesDim>varNamesDim.makeValidName	3	0.006	0.003
iofun\private\xlsreadSplitNumericAndText>getCorner	4	0.006	0.006
getExcelInstance>isactive	1	0.005	0.005
num2str>strvrcat	34	0.005	0.001
winfun\private\checkeventname	1	0.004	0.004
table.table>table.table	1	0.004	0.001
strjust	34	0.004	0.001
iofun\private\validpath	1	0.004	0.001
varNamesDim>varNamesDim.lengthenTo	1	0.004	0.002
iofun\private\xlsreadCOM>ensurelsCell	210	0.003	0.003
makeUniqueStrings>makeUnique	1	0.003	0.003
strjust>strjustOnChar	34	0.003	0.003
tabular.disp>getVarNamesDispLines	1	0.003	0.003
tabular.tabular>tabular.tabular	1	0.003	0.002
winfun\private\comeventcallback	1	0.003	0.002
varNamesDim>varNamesDim.checkReservedNames	4	0.003	0.002
iofun\private\xlsreadCOM>selectData	1	0.002	0.002

varNamesDim>varNamesDim.defaultLabels	1	0.002	0.000	
iofun\private\openExcelWorkbook>waitForValidWorkbook	1	0.002	0.002	
num2str>cellPrintf	34	0.002	0.002	
varNamesDim>varNamesDim,dfltLabels	1	0.001	0.001	
tabularDimension>tabularDimension,checkDuplicateLabels	1	0.001	0.001	
isenum	34	0.001	0.001	
<u>validateVariableNameLength</u>	4	0.001	0.001	
<u>isText</u>	1	0.001	0.001	
table.table>table.cloneAsEmpty.	1	0.001	0.000	
tabular.disp>getPaddedStr	11	0.001	0.001	
tabularDimension>tabularDimension.checkReservedNamesImpl	4	0.001	0.001	
iofun\private\validpath>getFullName	1	0.001	0.001	
xlsreadSupportedExtensions	1	0.001	0.001	
tabular.disp>boldifyLabels	1	0.001	0.000	
numberedNames	1	0.001	0.001	
iscom	2	0.001	0.001	
makeUniqueStrings>validateExclStrOrElemToChk	1	0.001	0.001	
tabular.disp>nSpaces	26	0.001	0.001	
makeUniqueStrings>truncateString	1	0.001	0.001	
tabularDimension>tabularDimension.selectFrom	1	0.000	0.000	
table,table>table,empty	1	0.000	0.000	
tabularDimension>tabularDimension.assignLabels	1	0.000	0.000	
$ \underline{odCall} > \underline{OverridesPublicDotMethodCall}. \underline{OverridesPublicDotMethodCall}$	1	0.000	0.000	
iofun\private\openExcelWorkbook>WorkbookActivateHandler	1	0.000	0.000	
<u>getExcelWorkbookActivationTimeout</u>	1	0.000	0.000	
<u>iofun\private\xlsreadSplitNumericAndText&gt;emptyCase</u>	4	0.000	0.000	
tabular,disp>nUnder	34	0.000	0.000	
makeUniqueStrings>validateMaxStringLength	1	0.000	0.000	
tabular,disp>containsRegexp	1	0.000	0.000	
RedefinesParen,RedefinesParen,RedefinesParen	1	0.000	0.000	
matricize	33	0.000	0.000	
isCharString	2	0.000	0.000	
$ \underline{otParen.RedefinesDotParen>RedefinesDotParen.RedefinesDotParen}$	1	0.000	0.000	
tabular.disp>getFloatFormats	1	0.000	0.000	
RedefinesBrace.RedefinesBrace.RedefinesBrace	1	0.000	0.000	
saveLoadCompatibility>saveLoadCompatibility.saveLoadCompatibility	1	0.000	0.000	
RedefinesDot,RedefinesDot,RedefinesDot	1	0.000	0.000	
tabular,disp>vectorizedWrappedLength	1	0.000	0.000	

<sup>\*</sup>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.