Profile Summary
Generated 13-Aug-2019 10:23:23 using performance time.

<u>Function Name</u>	Calls	Total Time	Self Time*	Total Time Plot (dark band = self time)
HorseShoeMethod2	1	71.815 s	0.975 s	
Load_Cube	21	70.156 s	5.756 s	
imwarp	4500	31.837 s	1.086 s	
Calibrate_Image	1500	25.805 s	1.594 s	
rmoutliers	3000	21.600 s	0.080 s	
<u>rmMissingOutliers</u>	3000	21.520 s	0.137 s	
rmMissingOutliers>applyFun	3000	19.364 s	0.084 s	
isoutlier	3000	19.280 s	0.097 s	
datafun/private/locateoutliers	3000	18.335 s	1.009 s	
datafun/private/datafuniqr	3000	17.216 s	10.084 s	
imwarp>parseInputs	4500	14.850 s	3.696 s	
validatestring	21046	8.312 s	2.345 s	
interp1q	3000	7.132 s	7.052 s	
imref2d>imref2d.imref2d	4521	6.945 s	0.613 s	
imwarp>validateInterpMethod	4500	6.884 s	0.066 s	
ImageDatastore.readimage	1500	6.343 s	0.063 s	
ensionManager.SpatialDimensionManager	9042	6.333 s	2.540 s	
t;ImageDatastore.readUsingSplitReader	1500	6.280 s	0.088 s	
holeFileCustomReadSplitReader.getNext	1500	5.556 s	0.247 s	
validatestring>checkString	21046	5.415 s	0.967 s	
imwarp>remapPointsAndResample	4500	5.285 s	0.089 s	
imwarp>ippWarpAffine	4500	5.127 s	0.842 s	
@ImageDatastore/te/readDatastoreImage	1500	5.112 s	0.312 s	
imread	1500	4.678 s	0.290 s	
string>throwErrorWithArgDescriptor	4500	4.196 s	2.452 s	1
imwarp>validateTform	9000	3.896 s	0.698 s	
imread>call_format_specific_reader	1500	3.798 s	0.149 s	•

imagesci/private/readtif	1500	3.649 s	0.093 s	
attributes	10500	3.538 s	0.368 s	
imwarp>preparseSpatialReferencingObjects	4500	3.502 s	1.197 s	ı
imagesci/private/rtifc (MEX-file)	1500	3.449 s	3.449 s	
<u>undistortImage</u>	1500	2.611 s	0.097 s	I
images/private/ippgeotrans (MEX-file)	4500	1.984 s	1.984 s	I
attributes>checkAttrs	10500	1.771 s	0.523 s	I
meraParametersImpl.undistortImageImpl	1500	1.384 s	0.454 s	I
>SpatialDimensionManager.set.Delta	9042	1.226 s	0.866 s	1
IDimensionManager.set.NumberOfSamples	9042	1.154 s	0.610 s	1
imwarp>postProcessMethodString	4500	1.023 s	0.591 s	1
affine2d>affine2d.set.T	12104	1.009 s	0.651 s	1
rmMissingOutliers>reduceSize	3000	0.990 s	0.990 s	1
attributes>checkInputs	10500	0.943 s	0.530 s	I
ialDimensionManager.set.DimensionName	9042	0.921 s	0.207 s	1
affine2d>affine2d.affine2d	6063	0.899 s	0.167 s	1
getArgumentDescriptor	4500	0.866 s	0.866 s	1
<u>isoutlier>parseinput</u>	3000	0.842 s	0.370 s	I
imwarp>validateInputImage	4500	0.828 s	0.828 s	1
er>ImageTransformer.transformImage	1500	0.826 s	0.041 s	1
interp2d	1500	0.781 s	0.067 s	1
imwarp>remapPartialParamNamesImwarp	4500	0.719 s	0.276 s	1
remapmex (MEX-file)	1500	0.702 s	0.702 s	1
rat	18084	0.698 s	0.698 s	1
attributes>valueAttributor	18000	0.596 s	0.504 s	1
undistortImage>parseInputs	1500	0.578 s	0.047 s	1
expectedScalar',msgld,argname,argpos)	9000	0.563 s	0.172 s	1
validatestring>checkInputs	21046	0.552 s	0.552 s	1
affine2d>affine2d.invert	4500	0.548 s	0.088 s	1
rmMissingOutliers>cumputeIndex	3000	0.540 s	0.540 s	1
undistortImage>checkCameraParameters	1500	0.531 s	0.192 s	

ustomReadFileSetSplitter.createReader 1501 0.529 s 0.239 s generateArgumentDescriptor 15000 0.519 s 0.428 s ionManager.set.StartCoordinateInWorld 9042 0.492 s 0.492 s rmMissingOutliers>parseInputs 3000 0.488 s 0.205 s attributes>checkClass 10500 0.456 s 0.456 s generateId 4500 0.450 s 0.175 s remapPartialParamNames 4500 0.443 s 0.306 s attributes>findSupportedAttr 18000 0.374 s 0.374 s imageDatastore 1 0.369 s 0.001 s tore>ImageDatastore.ImageDatastore 1 0.369 s 0.365 s SpatialDimensionManager>simplifyRatio 9042 0.360 s 0.081 s store>ImageDatastore.initDatastore 1 0.352 s 0.013 s	
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<u>SpatialDimensionManager>simplifyRatio</u> 9042 0.360 s 0.081 s	
store>ImageDatastore.initDatastore 1 0.352 s 0.013 s	
<u>errorlf</u> 25712 0.339 s 0.261 s	
<u>validatestring>createCommaSeparatedText</u> 4500 0.321 s 0.321 s	
pectedNonempty',msgld,argname,argpos) 9000 0.312 s 0.107 s	
<u>undistortImage>parseInputsMatlab</u> 1500 0.279 s 0.279 s	
generateId>isValidId 4500 0.275 s 0.275 s	
atialDimensionManager.get.WorldLimits 27042 0.271 s 0.271 s	
rmMissingOutliersVarargin 3000 0.267 s 0.175 s	
esolvedFileSetFactory.buildCompressed 1 0.254 s 0.003 s	
<u>ismissing</u> 4500 0.252 s 0.038 s	
imref2d>imref2d.get.PixelExtentInWorldX 18000 0.241 s 0.170 s	
<u>validateImage</u> 1500 0.219 s 0.028 s	
<u>ismissingKernel</u> 4500 0.214 s 0.162 s	
<u>DsFileSet.DsFileSet>DsFileSet.getFiles</u> 1502 0.206 s 0.025 s	
setGlobalVariables 1 0.198 s 0.055 s	
imref2d>imref2d.get.PixelExtentInWorldY 18000 0.196 s 0.139 s	
affine2d>affine2d.get.Tinv 4500 0.186 s 0.172 s	
edFileSetFactory.buildFileInformation 2 0.183 s 0.005 s	
<u>fileparts</u> 3000 0.183 s 0.161 s	

validateImage>localValidate	1500	0.183 s	0.057 s	
ResolvedFileSet>ResolvedFileSet.getFiles	1502	0.181 s	0.016 s	
<u>lookupAndFilterExtensions</u>	1	0.178 s	0.033 s	
t;RemoteToLocalFile.RemoteToLocalFile	1500	0.173 s	0.102 s	
t;CompressedFileSet.getFilesAsCellStr	1502	0.165 s	0.157 s	
imwarp>checkOutputViewAgreementWithTform	4500	0.163 s	0.163 s	
imref2d>imref2d.get.XWorldLimits	9000	0.158 s	0.078 s	
imref2d>imref2d.get.YWorldLimits	9000	0.145 s	0.078 s	
<u>cell.ismember</u>	7506	0.143 s	0.143 s	
imref2d>imref2d.get.ImageSize	4500	0.139 s	0.139 s	
remapPartialParamNames>my_strmatch	9000	0.137 s	0.137 s	
imref2d>imref2d.get.XIntrinsicLimits	9000	0.129 s	0.082 s	
>SpatialDimensionManager.get.Delta	36000	0.127 s	0.127 s	
arameters>cameraParameters.loadobj	1	0.126 s	0.003 s	
>cameraParameters.cameraParameters	1	0.123 s	0.001 s	
raParametersImpl.CameraParametersImpl	1	0.122 s	0.025 s	
imref2d>imref2d.get.YIntrinsicLimits	9000	0.117 s	0.080 s	
mean	3000	0.109 s	0.081 s	
imagesci/private/readtif>parse_args	1500	0.107 s	0.080 s	
;WholeFileCustomReadSplitReader.reset	1501	0.096 s	0.096 s	
onCleanup>onCleanup.delete	1503	0.095 s	0.043 s	
<u>checkInputName</u>	3000	0.092 s	0.078 s	
attributes>@(x)~isempty(x)	9000	0.092 s	0.092 s	
eArgumentDescriptor>isCharOrString	45000	0.092 s	0.092 s	
pathLookup	1	0.087 s	0.005 s	
ver	1	0.085 s	0.001 s	
IDimensionManager.get.IntrinsicLimits	18000	0.084 s	0.084 s	
ver>locGetSingleToolboxInfo	1	0.083 s	0.013 s	
imwarp>validateFillValues	4500	0.081 s	0.081 s	
interp1q>linformula	3000	0.080 s	0.080 s	
assert	25712	0.078 s	0.078 s	

<u>pathLookupLocalForDsFileSet</u>	1	0.077 s	0.041 s	
rmer>ImageTransformer.needToUpdate	1500	0.076 s	0.046 s	
<u>uselPPLibrary</u>	7502	0.069 s	0.069 s	
leSetFactory.buildFromFileInformation	1	0.068 s	0.004 s	
ustomReadFileSetSplitter.getFileSizes	1501	0.067 s	0.032 s	
<u>validateNotObject</u>	1500	0.067 s	0.067 s	
>RemoteToLocalFile.createLocalFile	1500	0.064 s	0.022 s	
prefer_const	21104	0.060 s	0.060 s	
istabular	13521	0.053 s	0.053 s	
DatastoreImage>@()warning(onState)	1500	0.052 s	0.052 s	
inline	27167	0.052 s	0.052 s	
target	9004	0.051 s	0.051 s	
ctory>ResolvedFileSetFactory.build	2	0.049 s	0.004 s	
fgetl	1455	0.046 s	0.046 s	
t;CompressedFileSet.CompressedFileSet	2	0.044 s	0.007 s	
isIRI	1502	0.043 s	0.043 s	
t;CustomReadDatastore.initFromReadFcn	1	0.041 s	0.003 s	
imread>parse_inputs	1500	0.040 s	0.040 s	
ransformation.GeometricTransformation	6063	0.039 s	0.039 s	
ippl	3002	0.039 s	0.019 s	
imwarp>checkImageAgreementWithTform	4500	0.036 s	0.036 s	
imwarp>checkFillValues	4500	0.035 s	0.035 s	
t.DsFileSet>DsFileSet.getFileSizes	1501	0.034 s	0.020 s	
ImageDatastore.reset	1	0.033 s	0.002 s	
Reader.WholeFileCustomReadSplitReader	1501	0.032 s	0.022 s	
ismissingKernel>arraySwitch	4500	0.031 s	0.031 s	
str2double	905	0.030 s	0.030 s	
ategorical>categorical.categorical	1	0.029 s	0.016 s	
onCleanup>onCleanup.onCleanup	1503	0.029 s	0.029 s	
nableFileSetLabels.getLabelUsingIndex	1500	0.029 s	0.017 s	
<u>scalarExpandFillValues</u>	1500	0.029 s	0.029 s	
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imwarp>@(ref)isa(ref,'imref2d')	4500	0.029 s	0.029 s
mean>mysize	3000	0.028 s	0.028 s
Datastore>FileBasedDatastore.reset	1	0.027 s	0.001 s
<u>cell.unique</u>	4	0.027 s	0.009 s
atastore>SplittableDatastore.reset	1	0.026 s	0.003 s
LocalFile>RemoteToLocalFile.delete	1500	0.024 s	0.014 s
<u>DsFileSet.DsFileSet>DsFileSet.DsFileSet</u>	1	0.023 s	0.002 s
<u>cell.intersect</u>	1	0.023 s	0.004 s
ispc	3003	0.022 s	0.022 s
ressedFileSet.setInitialInternalPaths	1	0.022 s	0.002 s
<u>splitapply</u>	1	0.022 s	0.007 s
<u>cell.strcat</u>	3	0.021 s	0.019 s
imwarp>isProblemSizeTooBig	4500	0.020 s	0.020 s
<u>checkImageSize</u>	1500	0.020 s	0.016 s
re>SplittableDatastore.moveToSplit	1	0.020 s	0.003 s
ver>locParseContentsFiles	1	0.020 s	0.007 s
imagesci/private/getFileFromURL	1500	0.019 s	0.019 s
imagesci/private/readtif>process_region	1500	0.019 s	0.019 s
Datastore>ImageDatastore.get.Files	1	0.018 s	0.001 s
cell.intersect>cellintersectlegacy	1	0.017 s	0.006 s
CompressedFileSet>iCreateInternalPaths	3	0.017 s	0.011 s
ableFileSet.getFilesAsCellStrAndCache	1	0.017 s	0.002 s
interp1	2	0.016 s	0.007 s
imregconfig	1	0.016 s	0.002 s
ImageTransformer>ImageTransformer.update	1	0.016 s	0.004 s
strlength	3004	0.015 s	0.015 s
leSet>ResolvedFileSet.getFileSizes	1501	0.014 s	0.014 s
<u>DsFileSet.DsFileSet>iParseNameValues</u>	1	0.013 s	0.005 s
ver>locGetContentsListFromPath	1	0.012 s	0.002 s
atastore>ImageDatastore.get.Labels	1500	0.012 s	0.012 s
<u>isdatetime</u>	3000	0.012 s	0.012 s

cell.unique>celluniqueR2012a	2	0.011 s	0.011 s
<u>nullcopy</u>	1500	0.011 s	0.011 s
former>ImageTransformer.computeMap	1	0.011 s	0.009 s
SplitReader>SplitReader.SplitReader	1501	0.010 s	0.010 s
t;RemoteToLocalFile.deletelfLocalCopy	1500	0.010 s	0.010 s
entDescent.RegularStepGradientDescent	1	0.009 s	0.006 s
<u>fullfile</u>	2	0.009 s	0.006 s
re.ImageDatastore>iParseNameValues	1	0.009 s	0.003 s
<u>isduration</u>	3000	0.009 s	0.009 s
<u>unique</u>	1	0.008 s	0.002 s
imagesci/private/readtif>check_info	1500	0.008 s	0.008 s
ver>locParseLineFromFile	6	0.008 s	0.003 s
<u>istimetable</u>	3000	0.008 s	0.008 s
interp1>parseinputs	2	0.007 s	0.006 s
ileRoots.set.AlternateFileSystemRoots	2	0.007 s	0.004 s
splitapply>localsplit	1	0.007 s	0.005 s
<u>isCharVector</u>	1501	0.007 s	0.007 s
cell.unique>celluniquelegacy	2	0.006 s	0.005 s
<u>DsFileSet.DsFileSet>iValidateSplitSize</u>	1	0.006 s	0.002 s
unique>uniqueR2012a	1	0.006 s	0.006 s
@(x)iSplitFullFile(x,originalFileSep)	19	0.006 s	0.001 s
splitapply>localapply	1	0.005 s	0.005 s
eFileCustomReadFileSetSplitter.create	1	0.005 s	0.001 s
<u>parseArgs</u>	1	0.005 s	0.005 s
sedFileSet>CompressedFileSet.reset	5	0.005 s	0.002 s
et>ResolvedFileSet.ResolvedFileSet	2	0.005 s	0.005 s
CompressedFileSet>iSplitFullFile	19	0.005 s	0.005 s
tastore>SplittableDatastore.delete	1	0.004 s	0.004 s
t;ImageDatastore.getDefaultExtensions	1	0.004 s	0.001 s
;CustomReadDatastore.set.SplitterName	1	0.004 s	0.002 s
er.WholeFileCustomReadFileSetSplitter	1	0.004 s	0.002 s

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stomReadDatastore.CustomReadDatastore	1	0.003 s	0.001 s
eFileSet>SubsasgnableFileSet.reset	1	0.003 s	0.001 s
atastore>ImageDatastore.set.Labels	1	0.002 s	0.002 s
fullfile>refinePath	2	0.002 s	0.001 s
partialMatchString	4	0.002 s	0.002 s
pathLookup>isIncludeSubfoldersLogical	1	0.002 s	0.001 s
aParametersImpl.checkRadialDistortion	1	0.002 s	0.001 s
cellstr	6	0.002 s	0.002 s
ResolvedFileSet>ResolvedFileSet.reset	5	0.002 s	0.002 s
isConcreteSubclassOf	1	0.002 s	0.002 s
interp1>reshapeAndSortXandV	2	0.002 s	0.002 s
>ImageTransformer.ImageTransformer	1	0.002 s	0.002 s
Splitter>Splitter.get.NumSplits	1	0.002 s	0.001 s
FileBasedDatastore.FileBasedDatastore	1	0.002 s	0.001 s
mes hgrid	1	0.002 s	0.002 s
splitapply>getVarRows	19	0.002 s	0.002 s
ver>locCleanDate	1	0.002 s	0.002 s
validatePaths_	1	0.002 s	0.002 s
fullfile>ensureTrailingFilesep	1	0.002 s	0.000 s
interp1>sanitycheckmethod	2	0.002 s	0.002 s
astore>ImageDatastore.set.ReadSize	1	0.001 s	0.001 s
cell.unique>localcat	4	0.001 s	0.001 s
splitapply>expandVariables	1	0.001 s	0.001 s
<u>validateCustomReadFcn</u>	1	0.001 s	0.001 s
validateLogicalOption	1	0.001 s	0.001 s
tformFileRoots.updateFilesFromPathMap	2	0.001 s	0.001 s
<u>imformats</u>	1	0.001 s	0.001 s
<u>filesep</u>	36	0.001 s	0.001 s
omReadFileSetSplitter.updateNumSplits	2	0.001 s	0.001 s
ver>locRemoveUnwantedEntries	1	0.001 s	0.001 s
fullfile>addTrailingFileSep	1	0.001 s	0.001 s

t;FileBasedSplitter.FileBasedSplitter	1	0.001 s	0.001 s
ver>locRemoveUnwantedFixPointEntries	1	0.001 s	0.001 s
ResolvedFileSetFactory>iGetFolderNames	1	0.001 s	0.001 s
<u>validateNonTableLabels</u>	1	0.001 s	0.001 s
escent.set.GradientMagnitudeTolerance	1	0.001 s	0.001 s
ameraParametersImpl.checkEstimateSkew	1	0.001 s	0.001 s
littableDatastore.SplittableDatastore	1	0.001 s	0.001 s
leSetLabels.SubsasgnableFileSetLabels	1	0.001 s	0.001 s
shiftdim	1	0.001 s	0.001 s
fullfile>replaceMultipleFileSeps	1	0.001 s	0.001 s
gularStepGradientDescent.set.Minimize	1	0.001 s	0.001 s
CompressedFileSet>iFindCorrectFileSep	1	0.001 s	0.001 s
gt;CameraParametersImpl.set.ImageSize	1	0.001 s	0.001 s
e>ImageDatastore.resetBatchReading	1	0.001 s	0.001 s
<u>validateLogical</u>	2	0.001 s	0.001 s
et>SubsasgnableFileSet.getNumFiles	1	0.001 s	0.001 s
>iValidateAlternateFileSystemRoots	2	0.001 s	0.001 s
splitapply>emptyGroups	1	0.001 s	0.001 s
DsFileSet.DsFileSet>DsFileSet.reset	1	0.001 s	0.001 s
ossPlatformFileRoots.isSetFromLoadObj	4	0.001 s	0.001 s
t.DsFileSet>DsFileSet.get.NumFiles	5	0.001 s	0.001 s
e>SplittableDatastore.set.Splitter	1	0.001 s	0.001 s
splitapply>@(ii){ii}	19	0.001 s	0.001 s
wantedHideable.HandleUnwantedHideable	2	0.001 s	0.001 s
e.ImageDatastore>iValidateReadSize	1	0.001 s	0.001 s
leSet>DsFileSet.setInternalFileSet	1	0.001 s	0.001 s
validateFileExtensions	1	0.001 s	0.001 s
interp1>reshapeValuesV	2	0.001 s	0.001 s
NumelOverride>NumelOverride.numel	1	0.001 s	0.001 s
atastore>ImageDatastore.getFileSet	3	0.001 s	0.001 s
ver>@()fclose(fid)		0.001 s	0.001 s

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;CameraParametersImpl.checkWorldUnits	1	0.000 s	0.000 s
ParametersImpl.computeUndistortBounds	1	0.000 s	0.000 s
@ImageDatastore/private/isSupportedIRI	1	0.000 s	0.000 s
ver>locGetMatlabToolboxLocation	4	0.000 s	0.000 s
categorical.categorical>removeUtil	1	0.000 s	0.000 s
<u>isNumLogical</u>	1	0.000 s	0.000 s
LocalForDsFileSet>@(x){vertcat(x)}	19	0.000 s	0.000 s
t;CameraParametersImpl.checkImageSize	2	0.000 s	0.000 s
pGradientDescent.set.RelaxationFactor	1	0.000 s	0.000 s
Regular Step Gradient Descent. set. Scales	1	0.000 s	0.000 s
GradientDescent.set.MaximumIterations	1	0.000 s	0.000 s
GradientDescent.set.MaximumStepLength	1	0.000 s	0.000 s
GradientDescent.set.MinimumStepLength	1	0.000 s	0.000 s
arametersImpl.checkReprojectionErrors	1	0.000 s	0.000 s
categorical>categorical.castCodes	1	0.000 s	0.000 s
CameraParametersImpl.checkWorldPoints	1	0.000 s	0.000 s
tformFileRoots.CrossPlatformFileRoots	2	0.000 s	0.000 s
raParametersImpl.checkRotationVectors	1	0.000 s	0.000 s
raParametersImpl.checkNumRadialCoeffs	1	0.000 s	0.000 s
<u>pathsep</u>	1	0.000 s	0.000 s
arametersImpl.checkTranslationVectors	1	0.000 s	0.000 s
ver>locInitializeVerStruct	1	0.000 s	0.000 s
eraParametersImpl.get.IntrinsicMatrix	1	0.000 s	0.000 s
mpl.checkEstimateTangentialDistortion	1	0.000 s	0.000 s
raParametersImpl.checkIntrinsicMatrix	1	0.000 s	0.000 s
ametersImpl.checkTangentialDistortion	1	0.000 s	0.000 s
<u>extrinsic</u>	1	0.000 s	0.000 s
forceScalarHandle.EnforceScalarHandle	1	0.000 s	0.000 s
erride>NumelOverride.NumelOverride	1	0.000 s	0.000 s
Splitter>Splitter.Splitter	1	0.000 s	0.000 s
eBasedDatastore.convertFileSetToFiles	1	0.000 s	0.000 s

MeanSquares > MeanSquares. MeanSquares	1	0.000 s	0.000 s	
<u>Datastore>Datastore.Datastore</u>	1	0.000 s	0.000 s	
bsasgnableFileSet.SubsasgnableFileSet	1	0.000 s	0.000 s	
Shuffleable>Shuffleable.Shuffleable	1	0.000 s	0.000 s	
leBasedSupport.HadoopFileBasedSupport	1	0.000 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.