Profile Summary (Total time: 769.181 s)

Generated 27-sep.-2022 14:41:04 using performance time.

Function Name	Calls			Total Time Plot (dark band = self time)
PlusOp>PlusOp.forward	1179351	308.933	308.933	
RecordingArray.backwardPass	1	581.308	186.102	
RecordingArray.parenReference	786235	42.539	29.714	
internal_parenReferenceBackward	786232	38.594	18.259	
<u>dlarray.size</u>	1206526	18.093	18.093	ı
<u>dlarray.parenReference</u>	786243	75.760	17.542	m .
RecordingArray.parenAssign	393128	24.608	16.851	1
internal_parenAssignBackward>iComputeRHSGradient	393128	23.516	16.581	i
SAXS tomo 3D err metric AD	1	768.911	14.349	
<u>dlarray.parenAssign</u>	393128	54.984	12.259	III
ParenReferenceOp>ParenReferenceOp.backward	786232	48.635	10.041	III.
<u>dlarray.plus</u>	393120	19.582	9.930	II.
ndgrid	393112	8.813	8.813	ı
ParenReferenceOp>ParenReferenceOp.forward	786235	8.639	8.639	ı
internal_parenReferenceBackward>iReplaceColonAndRemoveLogical	786232	10.880	8.178	1
FormattedData>FormattedData.extractData	1572506	7.388	7.388	
dlfeval	1	754.446	6.964	
ParenAssignOp>ParenAssignOp.backward	393128	37.509	6.613	
@dlarray\private\extractBinaryBroadcastData	393125	7.498	6.464	i
repmat	393128	6.935	6.309	1
FormattedData>FormattedData.insertData	1179379	5.306	5.306	1
ParenAssignOp>ParenAssignOp.forward	393128	5.040	5.040	1
arb_projection	1	166.052	3.793	
dlarray,parenReference>iRemoveDlarray	786243	5.699	3.430	
internal_parenAssignBackward	393128	30.897	3.344	
internal_parenReferenceBackward>iAdjustSizeVector	1179344	3.344	3.344	
internal_parenAssignBackward>iComputeXGradient	393119	3.074	3.074	
ParenReferenceOp>ParenReferenceOp.memory	786235	2.668	2.668	
dlarray.dims	1179373	2.131	2.131	
@dlarray\private\addOrDropDimensionLabels	1179371	2.094	2.094	
ParenAssignOp>ParenAssignOp.memory	393128	1.894	1.894	
dlarray.parenAssign>iGetRHS	393128	3.430	1.859	
dlarray,parenAssign>iRemoveDlarray	393128	3.160	1.831	
	393125	1.587	1.587	
@dlarray\private\restoreBinaryBroadcastData ParenReferenceOp>ParenReferenceOp.ParenReferenceOp	786235		1.518	
		1.518		
dlarray.parenReference>ilsDlarray	1179372	1.274	1.274	
@dlarray\private\extractBinaryBroadcastData>iCombineLayouts	393125	1.033	1.033	
dlarray.parenReference>ilsRecordingArray	786243	0.995	0.995	
internal_parenAssignBackward>iRemoveObjectIndex	393128	0.962	0.962	
dlarray.parenAssign>ilsDlarray	786264	0.879	0.879	
ParenAssignOp>ParenAssignOp ParenAssignOp ParenAssignOp	393128	0.823	0.823	
PlusOp>PlusOp.backward	393120	0.660	0.660	
repmat>checkSizesType	393128	0.625	0.625	
dlarray.parenAssign>ilsRecordingArray	393128	0.450	0.450	
containerfeval>iProcessStruct_1out_1in	768	0.082	0.082	

containerfeval>iDispatch_1out_1in	16123	0.145	0.064	
recordContainer>iRecordValue	14835	0.043	0.027	
workspacefunc	5	0.101	0.022	
workspacefunc>getShortValueObjectJ	149	0.072	0.021	
workspacefunc>getAbstractValueSummaryJ	81	0.022	0.017	
SAXS AD forward backward>SAXS AD cost function	1	747.472	0.016	
bsxpagemult (MEX-file)	2	0.015	0.015	
recordContainer>ilsUnrecordedDlarray	14835	0.015	0.014	
ParamTableCreator>ParamTableCreator.validateTableStructure	4853	0.017	0.013	
workspacefunc>num2complex	142	0.042	0.012	
FileStorage>FileStorage.getSortedJobIDsFromDisk	1	0.016	0.011	
<u>dlarray.dlgradient</u>	1	581.336	0.009	
containerfeval>iProcessCell 1out 1in	513	0.011	0.009	
containerfeval>ilsParameterTable	4853	0.026	0.008	
MtimesOp>MtimesOp.backward	1	0.006	0.006	
PowerBroadcastOp>iPowerBroadcastBackward	2	0.015	0.006	
PowerBroadcastOp>PowerBroadcastOp.forward	2	0.006	0.006	
unbroadcast	4	0.005	0.005	
containerfeval	5	0.020	0.005	
SumOp>SumOp.backward	3	0.006	0.005	
containerfeval>ilsParameterProvider	4853	0.004	0.004	
istable	4853	0.004	0.004	
PowerBroadcastOp>PowerBroadcastOp.backward	2	0.004	0.004	
workspacefunc>locallsDistributedType	248	0.004	0.004	
MatlabUpdateProviderWrapper>iGetJobStatusData	1	0.030	0.003	
codetools\private\dataviewerhelper	50	0.004	0.003	
PowerBroadcastOp>iBackwardUntraced	2	0.009	0.003	
optimize_SH	1	768.917	0.003	
workspacefunc>getclass	81	0.003	0.003	
<u>dlarray.mtimes</u>	1	0.004	0.003	
<u>dlarray.times</u>	2	0.013	0.003	
containerfeval>iDispatch_0out_1in	4	0.007	0.003	
meshgrid	1	0.003	0.003	
workspacefunc>locallsString	142	0.003	0.003	
@dlarray\private\helperReduction	3	0.004	0.003	
workspacefunc>getWhosInformation	2	0.003	0.003	
dlarray.dlarray>dlarray.dlarray.	10	0.005	0.003	
TimesBroadcastOp>TimesBroadcastOp.forward	2	0.002	0.002	
FormattedData>FormattedData.gatherData	36	0.003	0.002	
dlarray.permute	1	0.005	0.002	
PowerBroadcastOp>iComputeXGradientZeroNeg	1	0.004	0.002	
<u>dlarray.reshape</u>	1	0.010	0.002	
TimesBroadcastOp>TimesBroadcastOp.backward	2	0.008	0.002	
unique>uniqueR2012a	1	0.002	0.002	
PowerBroadcastOp>iComputeXGradient	1	0.002	0.002	
@dlarray\private\permuteExplicitly	1	0.006	0.002	
PermuteOp>PermuteOp.backward	1	0.003	0.002	
dlarray.mrdivide	1	0.003	0.002	
<u>dlarray.sum</u>	3	0.009	0.002	
workspacefunc>createComplexVector	8	0.004	0.002	

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Resoubling/intray/permule 1 0.003 0.002 Image: Contract of the cont	RecordingArray.sum	3	0.003	0.002	
Selfant Self	<u>validateNonDlarray</u>	17	0.002	0.002	
	RecordingArray.permute	1	0.003	0.002	
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Designation	unique	1	0.004	0.002	
	containerfeval>iProcessCell_0out_1in	2	0.003	0.002	
ditional 1 754.448 0.002 ditarguagerillimes 1 0.010 0.002 TimestirandicastOpic-ComputeXCradient 2 0.008 0.001 CLSSupport CutSSupport gelibida GraCluster 1 0.019 0.001 CLSSupport CutSSupport gelibida GraCluster 1 0.019 0.001 Numbrada 1 0.002 0.001 0.001 Workspacefinance-Paralludier 2 0.002 0.001 0.001	datenum	5	0.002	0.002	
	networkInputContainerFun	2	0.006	0.002	
Carray.cagumtimes		1	754.448	0.002	
Times Promise Promi	dlarray.pagemtimes	1	0.010	0.002	
CulsSurroort-CulsSurroort getLobes ForCluster 1 0.021 0.001 culsSurroort-CulsSurroort getLobes ForCluster 1 0.019 0.001 num2att 1 0.002 0.001 worksasseefunc-getCleanupHandler 2 0.001 0.001 FormattedData> FormattedData> getRecorded 5 0.002 0.001 scradableed.data XalueSummany Factory getInstance (Java method) 88 0.001 0.001 dlarray Aconsey - Brower 2 0.008 0.001 dlarray Aconsey - Brower 2 0.008 0.001 larray Aconsey 2 0.002 0.001 larray Aconsey 2 0.002 0.001 dlarray Aconsey 2 0.011 0.001 dlarray Aconsey 2 0.011 0.001 dlarray Aconsey 2 0.011 0.001 dlarray Acouste 1 0.002 0.001 dlarray Acouste 1 0.002 0.001 dlarray Acouste 1 0.002 0.001 <t< td=""><td></td><td>2</td><td>0.006</td><td>0.001</td><td></td></t<>		2	0.006	0.001	
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1	get_YIm_coeff	1	0.001	0.001	
workspacefunc>createComplexScalar 35 0.002 0.001 CJSCluster>CJSCluster.getJobs 1 0.022 0.001 recordContainer 1 0.006 0.001 errorplot 1 0.001 0.001 MatlabUpdateProviderWrapper>GetCachedJobStatusData 1 0.001 0.001 metworkContainerFun 2 0.008 0.001 PermuteOp>PermuteOp.forward 1 0.001 0.001 getCluster 1 0.002 0.001 Cluster.Cluster>Cluster.get.Jobs 1 0.003 0.001 MinusOp>MinusOp_forward 1 0.001 0.001 MinusOp>MinusOp_forward 1 0.001 0.001 dlarray,isreal 1 0.002 0.001 dlarray,isreal 12 0.001 0.001 FormattedData>FormattedData.stop 5 0.001 0.001 getCluster_Unavailable 1 0.001 0.001 CJSSupport>@(x,y)obj.get.JobsForCluster(x,y(1)) 1 0.002 0.001	<u>dlarray.abs</u>	1			
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EcordContainer	workspacefunc>createComplexScalar	35	0.002	0.001	
### STOOPLOOF ### S	CJSCluster>CJSCluster.getJobs	1	0.022	0.001	
MatlabUpdateProviderWrapper>iGetCachedJobStatusData 1 0.001 0.001 networkContainerFun 2 0.008 0.001 PermuteOp>PermuteOp.forward 1 0.001 0.001 getCluster 1 0.002 0.001 Cluster.Cluster>Cluster.get.Jobs 1 0.023 0.001 MinusOp>MinusOp.forward 1 0.001 0.001 dlarray,pagemtines>iScalarPages 2 0.002 0.001 dlarray,isreal 12 0.001 0.001 FormattedData>FormattedData.stop 5 0.001 0.001 getCluster>ilsClusterUnavailable 1 0.001 0.001 CJSSupport>@(x.y)obj.getJobsForCluster(x.y{1}) 1 0.019 0.001 dlarray,dlarray>dlarray,getDataDim 3 0.001 0.001 dlarray,dlarray-getRecorded 5 0.002 0.001 EileStorage≥iUnique 1 0.004 0.001 GrttoSpSqrtOp.forward 1 0.001 0.001	recordContainer	1	0.006	0.001	
networkContainerFun 2 0.008 0.001 PermuteOp>PermuteOp, forward 1 0.001 0.001 getCluster 1 0.002 0.001 Cluster_Cluster>Cluster.get_Jobs 1 0.023 0.001 MinusOp>MinusOp, forward 1 0.001 0.001 dlarray_pagemtimes>iScalarPages 2 0.002 0.001 dlarray_isreal 12 0.001 0.001 FormattedData>FormattedData.stop 5 0.001 0.001 getCluster_bisClusterUnavailable 1 0.001 0.001 GJSSupport>@(x,y)obj.getJobsForCluster(x,y{1}) 1 0.019 0.001 dlarray_dlarray_dlarray_getDataDim 3 0.001 0.001 dlarray_dlarray_getRecorded 5 0.002 0.001 EileStorage>iUnique 1 0.004 0.001 dlarray_isnumeric 20 0.003 0.001 SqrtOp>SqrtOp_forward 1 0.001 0.001	errorplot	1	0.001	0.001	
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Cluster.Cluster>Cluster.get.Jobs 1 0.023 0.001 MinusOp>MinusOp.forward 1 0.001 0.001 dlarray.pagemtimes>iScalarPages 2 0.002 0.001 dlarray.isreal 12 0.001 0.001 FormattedData>FormattedData.stop 5 0.001 0.001 getCluster>ilsclusterUnavailable 1 0.001 0.001 C_JSSupport>@(x,y)obj.getJobsForCluster(x,y{1}) 1 0.019 0.001 dlarray.dlarray>dlarray.getDataDim 3 0.001 0.001 dlarray.dlarray.getRecorded 5 0.002 0.001 FileStorage>iUnique 1 0.004 0.001 dlarray.isnumeric 20 0.003 0.001 SqrtOp>SqrtOp.forward 1 0.001 0.001	PermuteOp>PermuteOp.forward	1	0.001	0.001	
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dlarray.isreal 12 0.001 0.001 FormattedData>FormattedData.stop 5 0.001 0.001 getCluster>ilsClusterUnavailable 1 0.001 0.001 CJSSupport>@(x,y)obj.getJobsForCluster(x,y{1}) 1 0.019 0.001 dlarray.dlarray>dlarray.getDataDim 3 0.001 0.001 dlarray.dlarray.getRecorded 5 0.002 0.001 FileStorage>iUnique 1 0.004 0.001 dlarray.isnumeric 20 0.003 0.001 SqrtOp>SqrtOp.forward 1 0.001 0.001	MinusOp>MinusOp.forward	1	0.001	0.001	
FormattedData>FormattedData.stop 5 0.001 0.001 getCluster>ilsClusterUnavailable 1 0.001 0.001 CJSSupport>@(x,y)obj,getJobsForCluster(x,y{1}) 1 0.019 0.001 dlarray.dlarray>dlarray.getDataDim 3 0.001 0.001 dlarray.dlarray.getRecorded 5 0.002 0.001 FileStorage>iUnique 1 0.004 0.001 dlarray.isnumeric 20 0.003 0.001 SqrtOp>SqrtOp.forward 1 0.001 0.001	dlarray.pagemtimes>iScalarPages	2	0.002	0.001	
getCluster>ilsClusterUnavailable 1 0.001 0.001 CJSSupport>@(x,y)obj.getJobsForCluster(x,y{1}) 1 0.019 0.001 dlarray.dlarray.getDataDim 3 0.001 0.001 dlarray.dlarray.getRecorded 5 0.002 0.001 FileStorage>iUnique 1 0.004 0.001 dlarray.isnumeric 20 0.003 0.001 SqrtOp>SqrtOp.forward 1 0.001 0.001	<u>dlarray.isreal</u>	12	0.001	0.001	
CJSSupport>@(x,y)obj,getJobsForCluster(x,y{1}) 1 0.019 0.001 dlarray.dlarray>dlarray.getDataDim 3 0.001 0.001 dlarray.dlarray.getRecorded 5 0.002 0.001 FileStorage>iUnique 1 0.004 0.001 dlarray.isnumeric 20 0.003 0.001 SqrtOp>SqrtOp.forward 1 0.001 0.001	FormattedData>FormattedData.stop	5	0.001	0.001	
dlarray.dlarray>dlarray.getDataDim 3 0.001 0.001 dlarray.dlarray>dlarray.getRecorded 5 0.002 0.001 FileStorage>iUnique 1 0.004 0.001 dlarray.isnumeric 20 0.003 0.001 SqrtOp>SqrtOp.forward 1 0.001 0.001	getCluster>ilsClusterUnavailable	1	0.001	0.001	
dlarray.dlarray>dlarray.getRecorded 5 0.002 0.001 FileStorage>iUnique 1 0.004 0.001 dlarray.isnumeric 20 0.003 0.001 SqrtOp>SqrtOp.forward 1 0.001 0.001	CJSSupport>@(x,y)obj.getJobsForCluster(x,y{1})	1	0.019	0.001	
dlarray.dlarray>dlarray.getRecorded 5 0.002 0.001 FileStorage>iUnique 1 0.004 0.001 dlarray.isnumeric 20 0.003 0.001 SqrtOp>SqrtOp.forward 1 0.001 0.001		3	0.001	0.001	
FileStorage>iUnique 1 0.004 0.001 dlarray.isnumeric 20 0.003 0.001 SqrtOp>SqrtOp.forward 1 0.001 0.001		5	0.002	0.001	
dlarray.isnumeric 20 0.003 0.001 SqrtOp>SqrtOp.forward 1 0.001 0.001		1	0.004	0.001	
SqrtOp>SqrtOp.forward 1 0.001 0.001					
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now	5	0.002	0.001
<u>FileStorage>FileStorage.getJobSlds</u>	1	0.017	0.001
FileStorage>FileStorage.parseJobIDs	1	0.001	0.001
SumOp>SumOp.forward	3	0.001	0.001
AbsOp>AbsOp.forward	1	0.001	0.001
SqrtOp>SqrtOp.backward	1	0.001	0.001
dlarray.dlarray.isscalar	1	0.001	0.001
+operations\private\computeReductionDim	3	0.001	0.001
codetools\private\dataviewerhelper>upconvertIntegralType	43	0.001	0.001
int2str	1	0.001	0.001
@dlarray\private\omitnanUnsupported	3	0.001	0.001
dateFunction>LearnableUpdateFunction.makeUnaryUpdateFunction	1	0.001	0.001
dlfeval>stopRecording	6	0.001	0.001
@dlarray\private\extractUnaryElwiseData	3	0.001	0.001
ReshapeOp>ReshapeOp.forward	1	0.001	0.001
dlarray.dlarray.stop	5	0.001	0.001
@dlarray\private\dropTrailingODims	14	0.001	0.001
dlarray.dlarray.isempty	8	0.000	0.000
dlarray.islogical	16	0.001	0.000
UpdateProviderWrapper>MatlabUpdateProviderWrapper.getJobData	1	0.030	0.000
FormattedData>FormattedData.record	1	0.000	0.000
AbsOp>AbsOp.backward	1	0.000	0.000
dlarray.dlarray.hasFormat	4	0.000	0.000
CJSCluster>CJSCluster.hGetSupportID	1	0.000	0.000
PowerBroadcastOp>ilsRecordingArray	2	0.000	0.000
ReshapeOp>ReshapeOp.backward	1	0.000	0.000
Collection>Collection.collect	1	0.000	0.000
validateGradientInput>iValidate	1	0.000	0.000
RecordingArray.ndims	3	0.000	0.000
@dlarray\private\addTrailingQDims	1	0.000	0.000
pdateFunction>LearnableUpdateFunction.LearnableUpdateFunction	1	0.000	0.000
dlarray.mrdivide>ilsDLArray	3	0.000	0.000
dlarray.dlarray.record	1	0.001	0.000
startTracingAndSetupCleanup	1	0.000	0.000
internal isRecordingArray	34	0.000	0.000
dlarray.dlgradient>@(~)retrieve(collector)	1	0.000	0.000
dlarray.dlgradient>collectfun	1	0.001	0.000
MinusOp>MinusOp.backward	1	0.000	0.000
codetools\private\dataviewerhelper>isUnsignedIntegralType	7	0.000	0.000
@dlarray\private\restoreUnaryElwiseData	3	0.000	0.000
gets.spreadsheet.data.ComplexScalarFactory,valueOf (Java method)	35	0.000	0.000
MtimesOp>MtimesOp.forward	1	0.000	0.000
RecordingArray.isreal	3	0.000	0.000
com.mathworks.mlwidgets.workspace.WhosInformation (Java method)	2	0.000	0.000
basicContainerFun	1	0.000	0.000
	4		
s.mlwidgets.workspace.MatlabWorkspaceListener.swl (Java method)		0.000	0.000
unbroadcast>iUniformizeShapes	4	0.000	
SumOp>SumOp.SumOp validateGradientInput	3	0.000	0.000
validateGradientInputUpdateProviderWrapper>@()feature('hotlinks',currentHotLinksValue)	1	0.009	0.000
	1.1	0.000	LU UUU

dlarray.pagemtimes>iErrorForLabeledUnlessScalarPages	1	0.000	0.000	
RecordingArray.issparse	1	0.000	0.000	
RdivideOp>RdivideOp.forward	1	0.000	0.000	
$\underline{.} mathworks.mlwidgets.workspace.MatlabWorkspaceListener.swl(swl)$	2	0.000	0.000	
@dlarray\private\omitnanUnsupported>ilsOmitnan	3	0.000	0.000	
ReshapeOp>ReshapeOp.memory	1	0.000	0.000	
RecordingArray.internal_isRecordingArray	15	0.000	0.000	
gets.spreadsheet.data.ComplexArrayFactory.valueOf (Java method)	8	0.000	0.000	
ReshapeOp>ReshapeOp.ReshapeOp	1	0.000	0.000	
@dlarray\private\errorForLabeledUnlessScalar	1	0.000	0.000	
DoubleOp>DoubleOp.forward	1	0.000	0.000	
PermuteOp>PermuteOp.PermuteOp	1	0.000	0.000	
SumOp>SumOp.memory	3	0.000	0.000	
RecordingArray.permute>ilsRecordingArray.	1	0.000	0.000	
Collection>Collection.retrieve	1	0.000	0.000	
PermuteOp>PermuteOp.memory	1	0.000	0.000	
RecordingArray.backwardPass>iValidateAdjoint	1	0.000	0.000	
RdivideOp>iComputeXGradient	1	0.000	0.000	
java.lang.String (Java method)	7	0.000	0.000	
Collection>Collection	1	0.000	0.000	
<u>mathworks.widgets.spreadsheet.data.ValueSummary</u> (Java method)	10	0.000	0.000	
DoubleOp>DoubleOp.backward	1	0.000	0.000	
java.util.ArrayList (Java method)	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.