


















Profile Summary

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Function Name	Calls	Total Time	Self Time*	Total Time Plot (dark band = self time)
MainOptimizing5	1	564.960 s	212.565 s	
Olho_mex (MEX-file)	256	98.606 s	98.606 s	
DelayInterfG	6350	86.416 s	86.416 s	
OpticalFFTGT	3810	73.427 s	22.265 s	
OpticalIFFTGT	2540	43.641 s	8.387 s	
ProagationDelayT	1	33.645 s	6.986 s	
MZMGT	1280	24.911 s	24.329 s	
MeasPower	512	22.278 s	22.278 s	
findpeaks	256	21.545 s	0.338 s	
RedDowOok_mex (MEX-file)	256	16.173 s	16.173 s	
FiltroGaussiano	644	15.926 s	15.926 s	
SelectEachCarrier	1	15.890 s	12.910 s	
findpeaks>getAllPeaks	256	13.553 s	0.677 s	
findpeaks>findLocalMaxima	256	12.875 s	12.875 s	
mean	1018890	6.402 s	6.402 s	
Fibra_Monomodo1	132	5.904 s	5.812 s	
findpeaks>orderPeaks	256	2.889 s	2.889 s	
fftshift	781	2.661 s	2.661 s	
findpeaks>removePeaksBelowThreshold	256	2.036 s	2.036 s	
findpeaks>combinePeaks	256	1.107 s	0.043 s	
union	256	1.064 s	0.014 s	

union>unionR2012a	256	1.051 s	0.180 s	
unique	256	0.871 s	0.024 s	
unique>uniqueR2012a	256	0.846 s	0.846 s	
findpeaks>removePeaksBelowMinPeakHeight	256	0.839 s	0.839 s	
rectpulse	259	0.774 s	0.774 s	
findpeaks>parse_inputs	256	0.604 s	0.548 s	
ptxExpr	17	0.561 s	0.025 s	
ptxExpr>exprcompile	17	0.222 s	0.008 s	
close	257	0.211 s	0.018 s	
+gpu\private\compileAssignExpr	17	0.189 s	0.005 s	
+gpu\private\compileAssignExpr>ops	47	0.180 s	0.006 s	
+gpu\private\compileAssignExpr>call	17	0.169 s	0.013 s	
...aksSeparatedByMoreThanMinPeakDistance	256	0.149 s	0.149 s	
close>safegetchildren	257	0.140 s	0.027 s	
allchild	257	0.113 s	0.067 s	
flipud	512	0.075 s	0.075 s	
+gpu\private\compileAssignExpr>infixImpl	7	0.072 s	0.007 s	
...er>ptxEmitter.moduleHeaderLazyEval	17	0.057 s	0.002 s	
ptxEmitter>ptxEmitter.functionHeader	17	0.053 s	0.007 s	
close>getEmptyHandleList	257	0.051 s	0.051 s	
ptxEmitter>ptxEmitter.ptxEmitter	17	0.047 s	0.013 s	
validatestring	768	0.042 s	0.017 s	
ptxEmitter>ptxEmitter.bincall	6	0.042 s	0.007 s	
InternalState>InternalState.getHeaders	17	0.042 s	0.010 s	
ptxEmitter>ptxEmitter.generateInlinePtx	7	0.040 s	0.025 s	
...r>ptxEmitter.arithmeticInstruction	12	0.038 s	0.006 s	
Symbols>Symbols.Symbols	17	0.036 s	0.014 s	

...:ptxEmitter.mangleCprotoEntryLazyEval	17	0.036 s	0.025 s	
ptxEmitter>ptxEmitter.castregisters	13	0.035 s	0.007 s	
...signExpr>arithmeticTypeCombination	8	0.035 s	0.005 s	
ptxEmitter>ptxEmitter.loadSymbols	17	0.033 s	0.002 s	
time2freq_lamb_2	5	0.032 s	0.027 s	
...>ptxEmitter.loadSymbolsNoExpansion	17	0.031 s	0.003 s	
ptxEmitter>ptxEmitter.castreg	27	0.029 s	0.003 s	
ptxEmitter>ptxEmitter.loadSymbol	30	0.029 s	0.014 s	
GPUDevice.GPUDevice>GPUDevice.current	17	0.028 s	0.027 s	
findpeaks>keepAtMostNpPeaks	256	0.028 s	0.028 s	
+gpu\private\compileAssignExpr>dotexp	1	0.027 s	0.003 s	
Set_MZ_Input_Data_Simp	5	0.023 s	0.019 s	
cell.ismember	3	0.023 s	0.006 s	
ptxEmitter>ptxEmitter.formatInstruction	518	0.023 s	0.023 s	
+gp...te\compileAssignExpr>dotexplmpl	1	0.023 s	0.003 s	
cell.unique	10	0.023 s	0.007 s	
Symbols>Symbols.makeTypedSymbol	30	0.022 s	0.007 s	
...gnExpr>floatingPointFullDomainImpl	2	0.022 s	0.003 s	
Atomic>Atomic.coerceScalar	142	0.021 s	0.021 s	
mtree.mtree>mtree.mtree	17	0.021 s	0.019 s	
ptxEmitter>ptxEmitter.calculateOffset	17	0.021 s	0.007 s	
onCleanup>onCleanup.delete	257	0.020 s	0.006 s	
Symbols>Symbols.scalarizeSymbols	17	0.017 s	0.009 s	
ptxEmitter>ptxEmitter.makePrologue	17	0.017 s	0.003 s	
ptxEmitter>ptxEmitter.unacall	2	0.016 s	0.003 s	
cell.unique>celluniqueR2012a	10	0.016 s	0.016 s	
validatestring>checkString	768	0.016 s	0.016 s	

...te\compileAssignExpr>plusMinusImpl	5	0.015 s	0.004 s	
...er>ptxEmitter.storeSymbolsLazyEval	17	0.015 s	0.002 s	
Symbols>Symbols.updateSymbol	17	0.014 s	0.007 s	
ptxEmitter>ptxEmitter.storeSymbol	17	0.014 s	0.008 s	
...set(rootobj,'ShowHiddenHandles'.Temp)	257	0.013 s	0.013 s	
ptxEmitter>ptxEmitter.castregToFloat	7	0.013 s	0.008 s	
allchild>getchildren	257	0.012 s	0.012 s	
onCleanup>onCleanup.onCleanup	257	0.012 s	0.012 s	
...gt;ptxEmitter.replaceLoadInstructions	14	0.012 s	0.012 s	
InternalState>InternalState.tGet	93	0.012 s	0.004 s	
Atomic>Atomic.isSameBaseType	40	0.011 s	0.001 s	
ptxEmitter>ptxEmitter.copyreg	37	0.010 s	0.003 s	
validatestring>checkInputs	768	0.010 s	0.010 s	
ptxEmitter>ptxEmitter.arraySizeCheck	17	0.010 s	0.004 s	
target	1536	0.009 s	0.009 s	
ptxEmitter>ptxEmitter.declareRegisters	17	0.007 s	0.006 s	
+gpu\private\compileAssignExpr>absImpl	1	0.007 s	0.004 s	
...lState>InternalState.InternalState	17	0.007 s	0.007 s	
InternalState>InternalState.manageFunc	8	0.007 s	0.006 s	
Atomic>Atomic.enumerate	30	0.006 s	0.003 s	
ismember	3	0.005 s	0.001 s	
+gp...te\compileAssignExpr>uminusImpl	1	0.005 s	0.003 s	
...leAssignExpr>variableInSymbolTable	30	0.005 s	0.002 s	
...gt;ptxEmitter.initialCheckOfErrorFlag	17	0.005 s	0.002 s	
Atomic>Atomic.cType	47	0.005 s	0.004 s	
num2str	12	0.005 s	0.003 s	
Atomic>Atomic.isDouble	302	0.005 s	0.005 s	

ptxEmitter>ptxEmitter.getCodetable	17	0.005 s	0.003 s	
ptxEmitter>ptxEmitter.regsuffix	72	0.005 s	0.001 s	
ismember>ismemberR2012a	3	0.004 s	0.002 s	
InternalState>InternalState.fdGet	158	0.004 s	0.004 s	
InternalState>InternalState.ptrGet	128	0.004 s	0.001 s	
...te\compileAssignExpr>prebinarycall	12	0.004 s	0.003 s	
mtree.Ins	17	0.004 s	0.004 s	
Atomic>Atomic.coerceReal	144	0.003 s	0.003 s	
mtree.strings	34	0.003 s	0.003 s	
InternalState>InternalState.rGet	171	0.003 s	0.003 s	
ptxEmitter>ptxEmitter.endEpilogue	17	0.003 s	0.002 s	
mtree.Next	30	0.003 s	0.003 s	
Symbols>Symbols.getSymbol	64	0.003 s	0.003 s	
Symbols>Symbols.getSymbolIns	60	0.003 s	0.003 s	
InternalState>InternalState.getKernels	17	0.003 s	0.001 s	
mtree.Left	34	0.003 s	0.003 s	
uitools\private\allchildRootHelper	257	0.003 s	0.003 s	
mtree.mtree>mtree.list	34	0.003 s	0.001 s	
mtree.Body	17	0.003 s	0.003 s	
mtree.Outs	17	0.003 s	0.003 s	
InternalState>InternalState.rdGet	128	0.003 s	0.003 s	
Symbols>Symbols.makeshapeinfo	77	0.003 s	0.003 s	
signal\private\chkinputdatatype	512	0.003 s	0.003 s	
mtree.Right	34	0.003 s	0.003 s	
Fibra_Monomodo_Input_Data	132	0.003 s	0.003 s	
ptxEmitter>ptxEmitter.typesize	58	0.003 s	0.001 s	
ismember>ismemberBuiltinTypes	3	0.002 s	0.002 s	

mtree.List	34	0.002 s	0.002 s	
mtree.Arg	17	0.002 s	0.002 s	
Atomic>Atomic.buildAtomic	30	0.002 s	0.002 s	
time2freq	1	0.002 s	0.001 s	
Symbols>Symbols.makeemptysymbol	17	0.002 s	0.001 s	
mtree.kind	83	0.002 s	0.002 s	
mtree.wholetree	17	0.002 s	0.002 s	
floatingPointFullDomainRule	2	0.002 s	0.002 s	
Symbols>Symbols.makesymbol	47	0.002 s	0.002 s	
arithmeticOperandInDoubleRule	13	0.002 s	0.002 s	
str2double	17	0.002 s	0.002 s	
ptxEmitter>ptxEmitter.absreg	1	0.002 s	0.002 s	
...r>ptxEmitter.regsuffixForOperation	39	0.002 s	0.001 s	
findpeaks>assignOutputs	256	0.002 s	0.002 s	
mtree.string	64	0.002 s	0.002 s	
Atomic>Atomic.isSingle	127	0.002 s	0.002 s	
int2str	12	0.002 s	0.002 s	
Atomic>Atomic.isArray	60	0.001 s	0.001 s	
...t;ptxEmitter.conditionalBranchToLabel	1	0.001 s	0.000 s	
Atomic>Atomic.isLogical	67	0.001 s	0.001 s	
Atomic>Atomic.isComplexDouble	110	0.001 s	0.001 s	
ptxEmitter>ptxEmitter.getVariableName	19	0.001 s	0.001 s	
isduration	768	0.001 s	0.001 s	
close>checkfigs	257	0.001 s	0.001 s	
+gp...\compileAssignExpr>preunarycall	4	0.001 s	0.001 s	
Emitter>Emitter.makehexnumber	7	0.001 s	0.001 s	
InternalState>InternalState.rhGet	34	0.001 s	0.001 s	

ptxEmitter>ptxEmitter.negatereg	2	0.001 s	0.001 s	
...ter>ptxEmitter.initializeRandState	17	0.001 s	0.001 s	
close>request_close	257	0.001 s	0.001 s	
linspace	1	0.001 s	0.001 s	
InternalState>InternalState.labelGet	24	0.001 s	0.001 s	
nextpow2	3	0.001 s	0.001 s	
gpuDeviceCount	1	0.001 s	0.000 s	
CallInfo	17	0.001 s	0.001 s	
...er>ptxEmitter.getCurrentDebugState	17	0.001 s	0.001 s	
...ignExpr>determinePowerOptimization	1	0.001 s	0.001 s	
...ter>ptxEmitter.getVersionAndTarget	17	0.001 s	0.001 s	
Symbols>Symbols.symbolPresent	30	0.001 s	0.001 s	
ptxEmitter>ptxEmitter.branchToLabel	7	0.001 s	0.001 s	
...ter>ptxEmitter.emitPtxWithComments	266	0.001 s	0.001 s	
isdatetime	256	0.001 s	0.001 s	
isNodeKindEqualsOrAnon	17	0.001 s	0.001 s	
ptxEmitter>ptxEmitter.getErrorCheckFcn	2	0.001 s	0.001 s	
Symbols>Symbols.updateshapeinfo	13	0.001 s	0.001 s	
Atomic>Atomic.isComplex	184	0.001 s	0.001 s	
InternalState>InternalState.pGet	18	0.001 s	0.001 s	
ptxEmitter>ptxEmitter.formatComment	51	0.001 s	0.001 s	
isAnyDeviceSelected	17	0.001 s	0.001 s	
...ate>InternalState.containsRandCall	17	0.001 s	0.001 s	
Atomic>Atomic.validateIsScalar	64	0.001 s	0.001 s	
arithmeticMapsToRealRule	1	0.001 s	0.001 s	
ptxEmitter>ptxEmitter.formatLabel	24	0.001 s	0.001 s	
...tate>InternalState.emitAsInlinePTX	16	0.001 s	0.001 s	

...lState>InternalState.getMachineptr	81	0.001 s	0.001 s	
Atomic>Atomic.isComplexFloatingPoint	25	0.001 s	0.001 s	
Atomic>Atomic.mType	17	0.001 s	0.000 s	
GPUDevice.GPUDevice>GPUDevice.count	1	0.000 s	0.000 s	
...:InternalState.getCellArrayOfWarnings	17	0.000 s	0.000 s	
Atomic>Atomic.isNumeric	60	0.000 s	0.000 s	
...t:InternalState.containsNonStaticLoop	17	0.000 s	0.000 s	
mtree.count	83	0.000 s	0.000 s	
...e>InternalState.setCompilationNode	17	0.000 s	0.000 s	
ptxEmitter>ptxEmitter.beginEpilogue	17	0.000 s	0.000 s	
Atomic>Atomic.isRealFloatingPoint	7	0.000 s	0.000 s	
Atomic>Atomic.isUnsignedInteger	2	0.000 s	0.000 s	
currentDeviceIndex	17	0.000 s	0.000 s	
mtree.isNull	51	0.000 s	0.000 s	
Atomic>Atomic.makeKey	8	0.000 s	0.000 s	
Atomic>Atomic.isComplexSingle	12	0.000 s	0.000 s	
...nternalState.setNodeForErrorMechanism	17	0.000 s	0.000 s	
Emitter>Emitter.Emitter	17	0.000 s	0.000 s	
Atomic>Atomic.isScalar	40	0.000 s	0.000 s	
deal	3	0.000 s	0.000 s	
...gt:InternalState.initializeBlockError	34	0.000 s	0.000 s	
pwd	4	0.000 s	0.000 s	
...ate>InternalState.useDeviceLibrary	22	0.000 s	0.000 s	
...e>InternalState.getCompilationNode	17	0.000 s	0.000 s	
...rnalState.useDeviceLibraryForFunction	8	0.000 s	0.000 s	
InternalState>InternalState.getRuleset	17	0.000 s	0.000 s	
InternalState>InternalState.getRegP	17	0.000 s	0.000 s	

InternalState>InternalState.getRegRD	17	0.000 s	0.000 s	
InternalState>InternalState.getRegF	17	0.000 s	0.000 s	
InternalState>InternalState.getRegRB	17	0.000 s	0.000 s	
InternalState>InternalState.getRegRH	17	0.000 s	0.000 s	
Atomic>Atomic.isInteger	9	0.000 s	0.000 s	
Atomic>Atomic.isFloatingPoint	7	0.000 s	0.000 s	
InternalState>InternalState.getRegR	17	0.000 s	0.000 s	
InternalState>InternalState.getRegFD	17	0.000 s	0.000 s	
deviceCount	1	0.000 s	0.000 s	
arithmeticRule	1	0.000 s	0.000 s	
Atomic>Atomic.isSignedInteger	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.