Profile Summary

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Function Name	Calls	**Total Time**	Self Time*	Total Time Plot (dark band = self time)
MainOptimizing5	1	534.775 s	240.654 s	
DelayInterfG	7630	104.724 s	104.484 s	
OpticalFFTGT	3810	72.701 s	21.601 s	
RecDowDepsk_mex (MEX-file)	256	43.774 s	43.774 s	
OpticalIFFTGT	2540	43.663 s	8.658 s	
ProgationDelayT	1	35.331 s	7.244 s	
MeasPower	512	24.032 s	24.032 s	
MZMGT	1280	23.518 s	23.518 s	
findpeaks	256	22.985 s	0.358 s	
SelectEachCarrier	1	16.739 s	13.776 s	
findpeaks>getAllPeaks	256	14.489 s	0.719 s	
findpeaks>findLocalMaxima	256	13.770 s	13.770 s	
FiltroGaussiano	516	13.406 s	13.406 s	
Fibra_Monomodo1	132	5.915 s	5.821 s	
findpeaks>orderPeaks	256	3.108 s	3.108 s	
findpeaks>removePeaksBelowThreshold	256	2.127 s	2.127 s	
fftshift	653	2.098 s	2.098 s	
findpeaks>combinePeaks	256	1.182 s	0.045 s	
union	256	1.137 s	0.015 s	
union>unionR2012a	256	1.122 s	0.191 s	
DpskEncodEqT	256	1.026 s	1.026 s	

unique	256	0.931 s	0.026 s	
unique>uniqueR2012a	256	0.905 s	0.905 s	
findpeaks>removePeaksBelowMinPeakHeight	256	0.872 s	0.872 s	
rectpulse	259	0.764 s	0.764 s	
findpeaks>parse_inputs	256	0.654 s	0.591 s	
mean	266	0.291 s	0.291 s	
close	257	0.247 s	0.026 s	
ptxExpr	2	0.235 s	0.013 s	
...aksSeparatedByMoreThanMinPeakDistance	256	0.159 s	0.159 s	
close>safegetchildren	257	0.159 s	0.029 s	
allchild	257	0.130 s	0.077 s	
flipud	512	0.093 s	0.093 s	
ptxExpr>exprcompile	2	0.072 s	0.005 s	
close>getEmptyHandleList	257	0.060 s	0.060 s	
+gpu\private\compileAssignExpr	2	0.054 s	0.004 s	
validatestring	768	0.048 s	0.019 s	
+gpu\private\compileAssignExpr>ops	6	0.047 s	0.003 s	
+gpu\private\compileAssignExpr>call	2	0.041 s	0.004 s	
time2freq_lamb_2	5	0.033 s	0.027 s	
...te\compileAssignExpr>plusMinusImpl	2	0.032 s	0.004 s	
findpeaks>keepAtMostNpPeaks	256	0.031 s	0.031 s	
Set_MZ_Input_Data_Simp	5	0.026 s	0.021 s	
onCleanup>onCleanup.delete	257	0.022 s	0.007 s	
ptxEmitter>ptxEmitter.loadSymbols	2	0.022 s	0.001 s	
ptxEmitter>ptxEmitter.castregisters	2	0.021 s	0.005 s	
...:ptxEmitter.mangleCprotoEntryLazyEval	2	0.021 s	0.016 s	
...>ptxEmitter.loadSymbolsNoExpansion	2	0.020 s	0.002 s	

Symbols>Symbols.Symbols	2	0.020 s	0.005 s	
ptxEmitter>ptxEmitter.loadSymbol	4	0.019 s	0.010 s	
validatestring>checkString	768	0.017 s	0.017 s	
ptxEmitter>ptxEmitter.ptxEmitter	2	0.017 s	0.008 s	
ptxEmitter>ptxEmitter.castreg	4	0.016 s	0.003 s	
Symbols>Symbols.makeTypedSymbol	4	0.015 s	0.005 s	
...set(rootobj,'ShowHiddenHandles',Temp)	257	0.015 s	0.015 s	
allchild>getchildren	257	0.014 s	0.014 s	
ptxEmitter>ptxEmitter.calculateOffset	2	0.014 s	0.006 s	
onCleanup>onCleanup.onCleanup	257	0.013 s	0.013 s	
validatestring>checkInputs	768	0.012 s	0.012 s	
ptxEmitter>ptxEmitter.makePrologue	2	0.011 s	0.002 s	
target	1536	0.011 s	0.011 s	
ptxEmitter>ptxEmitter.formatInstruction	65	0.010 s	0.009 s	
ptxEmitter>ptxEmitter.castregToFloat	1	0.008 s	0.006 s	
...er>ptxEmitter.storeSymbolsLazyEval	2	0.008 s	0.001 s	
...er>ptxEmitter.moduleHeaderLazyEval	2	0.007 s	0.002 s	
ptxEmitter>ptxEmitter.arraySizeCheck	2	0.007 s	0.004 s	
ptxEmitter>ptxEmitter.storeSymbol	2	0.006 s	0.005 s	
ptxEmitter>ptxEmitter.declareRegisters	2	0.006 s	0.005 s	
Symbols>Symbols.updateSymbol	2	0.006 s	0.003 s	
num2str	11	0.005 s	0.003 s	
mtree.mtree>mtree.mtree	2	0.005 s	0.004 s	
Symbols>Symbols.scalarizeSymbols	2	0.005 s	0.004 s	
InternalState>InternalState.tGet	12	0.005 s	0.002 s	
...te\compileAssignExpr>prebinarycall	2	0.005 s	0.002 s	
GPUDevice.GPUDevice>GPUDevice.current	2	0.005 s	0.004 s	

Atomic>Atomic.enumerate	4	0.005 s	0.003 s	
ptxEmitter>ptxEmitter.copyreg	5	0.004 s	0.002 s	
...lState>InternalState.InternalState	2	0.004 s	0.004 s	
...r>ptxEmitter.arithmeticInstruction	2	0.004 s	0.003 s	
ptxEmitter>ptxEmitter.functionHeader	2	0.004 s	0.002 s	
...leAssignExpr>variableInSymbolTable	4	0.004 s	0.002 s	
uitools\private\allchildRootHelper	257	0.004 s	0.004 s	
Atomic>Atomic.coerceScalar	19	0.003 s	0.003 s	
ptxEmitter>ptxEmitter.regsuffix	10	0.003 s	0.001 s	
ptxEmitter>ptxEmitter.getCodetable	2	0.003 s	0.002 s	
Atomic>Atomic.cType	6	0.003 s	0.003 s	
ptxEmitter>ptxEmitter.endEpilogue	2	0.003 s	0.002 s	
mtree.Ins	2	0.003 s	0.003 s	
findpeaks>assignOutputs	256	0.003 s	0.003 s	
mtree.Next	4	0.003 s	0.003 s	
mtree.Outs	2	0.003 s	0.003 s	
Fibra_Monomodo_Input_Data	132	0.003 s	0.003 s	
time2freq	1	0.003 s	0.001 s	
mtree.mtree>mtree.list	4	0.003 s	0.001 s	
mtree.strings	4	0.002 s	0.002 s	
Atomic>Atomic.isSameBaseType	6	0.002 s	0.001 s	
mtree.Body	2	0.002 s	0.002 s	
mtree.Left	4	0.002 s	0.002 s	
signal\private\chkinputdatatype	512	0.002 s	0.002 s	
mtree.Right	4	0.002 s	0.002 s	
Atomic>Atomic.coerceReal	19	0.002 s	0.002 s	
mtree.Arg	2	0.002 s	0.002 s	

int2str	11	0.002 s	0.002 s	
Atomic>Atomic.buildAtomic	4	0.002 s	0.002 s	
mtree.List	4	0.002 s	0.002 s	
InternalState>InternalState.ptrGet	14	0.002 s	0.001 s	
mtree.wholetree	2	0.002 s	0.002 s	
isduration	768	0.002 s	0.002 s	
mtree.kind	10	0.002 s	0.001 s	
Symbols>Symbols.makeemptysymbol	2	0.002 s	0.001 s	
Symbols>Symbols.getSymbolIns	8	0.001 s	0.001 s	
ptxEmitter>ptxEmitter.typesize	8	0.001 s	0.001 s	
close>checkfigs	257	0.001 s	0.001 s	
Atomic>Atomic.isDouble	41	0.001 s	0.001 s	
str2double	2	0.001 s	0.001 s	
InternalState>InternalState.fdGet	23	0.001 s	0.001 s	
Symbols>Symbols.getSymbol	8	0.001 s	0.001 s	
Symbols>Symbols.makesymbol	6	0.001 s	0.001 s	
linspace	1	0.001 s	0.001 s	
Atomic>Atomic.isArray	8	0.001 s	0.001 s	
close>request_close	257	0.001 s	0.001 s	
...ter>ptxEmitter.initializeRandState	2	0.001 s	0.000 s	
InternalState>InternalState.rGet	20	0.001 s	0.001 s	
...r>ptxEmitter.regsuffixForOperation	5	0.001 s	0.001 s	
mtree.string	8	0.001 s	0.001 s	
nextpow2	3	0.001 s	0.001 s	
Symbols>Symbols.makeshapeinfo	10	0.001 s	0.001 s	
Emitter>Emitter.makehexnumber	1	0.001 s	0.001 s	
gpuDeviceCount	1	0.001 s	0.001 s	

InternalState>InternalState.rdGet	14	0.001 s	0.001 s	
isdatetime	256	0.001 s	0.001 s	
...ter>ptxEmitter.getVersionAndTarget	2	0.001 s	0.001 s	
Atomic>Atomic.isSingle	22	0.001 s	0.001 s	
Atomic>Atomic.mType	2	0.001 s	0.001 s	
Symbols>Symbols.updateshapeinfo	2	0.001 s	0.001 s	
InternalState>InternalState.rhGet	4	0.001 s	0.001 s	
InternalState>InternalState.getHeaders	2	0.001 s	0.001 s	
...ate>InternalState.containsRandCall	2	0.001 s	0.001 s	
isNodeKindEqualsOrAnon	2	0.001 s	0.001 s	
...:InternalState.getCellArrayOfWarnings	2	0.001 s	0.001 s	
Atomic>Atomic.isLogical	8	0.001 s	0.001 s	
arithmeticOperandInDoubleRule	2	0.001 s	0.001 s	
InternalState>InternalState.labelGet	2	0.001 s	0.001 s	
Atomic>Atomic.isComplexDouble	19	0.001 s	0.001 s	
CallInfo	2	0.001 s	0.001 s	
Symbols>Symbols.symbolPresent	4	0.001 s	0.001 s	
ptxEmitter>ptxEmitter.formatComment	6	0.001 s	0.001 s	
GPUDevice.GPUDevice>GPUDevice.count	1	0.001 s	0.000 s	
...t:InternalState.containsNonStaticLoop	2	0.001 s	0.001 s	
InternalState>InternalState.pGet	2	0.000 s	0.000 s	
...gt:ptxEmitter.initialCheckOfErrorFlag	2	0.000 s	0.000 s	
Atomic>Atomic.isRealFloatingPoint	1	0.000 s	0.000 s	
Atomic>Atomic.isNumeric	8	0.000 s	0.000 s	
Atomic>Atomic.isComplexFloatingPoint	3	0.000 s	0.000 s	
...er>ptxEmitter.getCurrentDebugState	2	0.000 s	0.000 s	
...lState>InternalState.getMachineptr	10	0.000 s	0.000 s	

InternalState>InternalState.getKernels	2	0.000 s	0.000 s	
ptxEmitter>ptxEmitter.beginEpilogue	2	0.000 s	0.000 s	
Atomic>Atomic.isComplex	23	0.000 s	0.000 s	
...e>InternalState.getCompilationNode	2	0.000 s	0.000 s	
Atomic>Atomic.isComplexSingle	3	0.000 s	0.000 s	
...ter>ptxEmitter.emitPtxWithComments	31	0.000 s	0.000 s	
...ate>InternalState.useDeviceLibrary	2	0.000 s	0.000 s	
...nternalState.setNodeForErrorMechanism	2	0.000 s	0.000 s	
pwd	4	0.000 s	0.000 s	
InternalState>InternalState.getRegRD	2	0.000 s	0.000 s	
ptxEmitter>ptxEmitter.formatLabel	2	0.000 s	0.000 s	
Atomic>Atomic.validateIsScalar	8	0.000 s	0.000 s	
mtree.isnull	6	0.000 s	0.000 s	
InternalState>InternalState.getRegF	2	0.000 s	0.000 s	
...e>InternalState.setCompilationNode	2	0.000 s	0.000 s	
InternalState>InternalState.getRuleset	2	0.000 s	0.000 s	
mtree.count	10	0.000 s	0.000 s	
isAnyDeviceSelected	2	0.000 s	0.000 s	
InternalState>InternalState.getRegR	2	0.000 s	0.000 s	
InternalState>InternalState.getRegFD	2	0.000 s	0.000 s	
Atomic>Atomic.isScalar	6	0.000 s	0.000 s	
deviceCount	1	0.000 s	0.000 s	
...gt;InternalState.initializeBlockError	4	0.000 s	0.000 s	
InternalState>InternalState.getRegRB	2	0.000 s	0.000 s	
Atomic>Atomic.isInteger	1	0.000 s	0.000 s	
Atomic>Atomic.isFloatingPoint	1	0.000 s	0.000 s	
InternalState>InternalState.getRegRH	2	0.000 s	0.000 s	

currentDeviceIndex	2	0.000 s	0.000 s	
Emitter>Emitter.Emitter	2	0.000 s	0.000 s	
InternalState>InternalState.getRegP	2	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.