



















## Profile Summary

Generated 10-Sep-2018 08:47:50 using performance time.

<a href="#">Function Name</a>	<a href="#">Calls</a>	<a href="#">Total Time</a>	<a href="#">Self Time*</a>	Total Time Plot (dark band = self time)
<a href="#">MainOptimizing4</a>	1	977.291 s	366.694 s	
<a href="#">findpeaks</a>	1536	128.005 s	2.107 s	
<a href="#">DelayInterfG</a>	8910	126.891 s	126.686 s	
<a href="#">MeasPower</a>	6400	104.010 s	96.567 s	
<a href="#">Olho_mex</a> (MEX-file)	2560	99.077 s	99.077 s	
<a href="#">findpeaks&gt;getAllPeaks</a>	1536	80.739 s	4.040 s	
<a href="#">OpticalFFTGT</a>	3810	77.081 s	23.897 s	
<a href="#">findpeaks&gt;findLocalMaxima</a>	1536	76.699 s	76.699 s	
<a href="#">lqMod</a>	1280	49.482 s	49.482 s	
<a href="#">OpticalIFFTGT</a>	2540	45.835 s	9.130 s	
<a href="#">ProagationDelayT</a>	1	33.480 s	6.943 s	
<a href="#">FiltroGaussiano</a>	2692	20.330 s	20.330 s	
<a href="#">findpeaks&gt;orderPeaks</a>	1536	16.983 s	16.983 s	
<a href="#">SelectEachCarrier</a>	1	16.008 s	13.081 s	
<a href="#">mean</a>	2040342	13.863 s	13.863 s	
<a href="#">findpeaks&gt;removePeaksBelowThreshold</a>	1536	12.071 s	12.071 s	
<a href="#">linspace</a>	8961	7.513 s	7.513 s	
<a href="#">findpeaks&gt;combinePeaks</a>	1536	6.548 s	0.232 s	
<a href="#">union</a>	1536	6.316 s	0.077 s	

<a href="#">union&gt;unionR2012a</a>	1536	6.239 s	1.057 s	
<a href="#">fftshift</a>	4121	5.986 s	5.986 s	
<a href="#">Fibra_Monomodo1</a>	148	5.853 s	5.770 s	
<a href="#">unique</a>	1536	5.182 s	0.119 s	
<a href="#">unique&gt;uniqueR2012a</a>	1536	5.063 s	5.063 s	
<a href="#">findpeaks&gt;removePeaksBelowMinPeakHeight</a>	1536	4.955 s	4.955 s	
<a href="#">findpeaks&gt;parse_inputs</a>	1536	3.546 s	3.218 s	
<a href="#">rectpulse</a>	2563	1.638 s	1.638 s	
<a href="#">close</a>	1281	0.996 s	0.077 s	
<a href="#">...aksSeparatedByMoreThanMinPeakDistance</a>	1536	0.898 s	0.898 s	
<a href="#">DqpskEncodEqT</a>	1280	0.882 s	0.873 s	
<a href="#">close&gt;safegetchildren</a>	1281	0.663 s	0.124 s	
<a href="#">allchild</a>	1281	0.539 s	0.317 s	
<a href="#">hist</a>	2560	0.288 s	0.244 s	
<a href="#">close&gt;getEmptyHandleList</a>	1281	0.246 s	0.246 s	
<a href="#">validatestring</a>	4608	0.246 s	0.095 s	
<a href="#">flipud</a>	5120	0.226 s	0.226 s	
<a href="#">ptxExpr</a>	2	0.200 s	0.011 s	
<a href="#">findpeaks&gt;keepAtMostNpPeaks</a>	1536	0.149 s	0.149 s	
<a href="#">onCleanup&gt;onCleanup.delete</a>	1281	0.094 s	0.030 s	
<a href="#">validatestring&gt;checkString</a>	4608	0.091 s	0.091 s	
<a href="#">...set(rootobj,'ShowHiddenHandles',Temp)</a>	1281	0.064 s	0.064 s	
<a href="#">ptxExpr&gt;exprcompile</a>	2	0.061 s	0.005 s	
<a href="#">validatestring&gt;checkInputs</a>	4608	0.060 s	0.060 s	
<a href="#">allchild&gt;getchildren</a>	1281	0.058 s	0.058 s	
<a href="#">target</a>	9216	0.058 s	0.058 s	
<a href="#">onCleanup&gt;onCleanup.onCleanup</a>	1281	0.056 s	0.056 s	

<a href="#">axescheck</a>	2560	0.044 s	0.044 s	
<a href="#">+gpu\private\compileAssignExpr</a>	2	0.044 s	0.003 s	
<a href="#">+gpu\private\compileAssignExpr&gt;ops</a>	6	0.038 s	0.002 s	
<a href="#">+gpu\private\compileAssignExpr&gt;call</a>	2	0.032 s	0.003 s	
<a href="#">Set_MZ_Input_Data_Simp</a>	5	0.031 s	0.026 s	
<a href="#">...te\compileAssignExpr&gt;plusMinusImpl</a>	2	0.024 s	0.004 s	
<a href="#">ptxEmitter&gt;ptxEmitter.loadSymbols</a>	2	0.019 s	0.001 s	
<a href="#">...&gt;ptxEmitter.loadSymbolsNoExpansion</a>	2	0.018 s	0.001 s	
<a href="#">Symbols&gt;Symbols.Symbols</a>	2	0.017 s	0.004 s	
<a href="#">ptxEmitter&gt;ptxEmitter.loadSymbol</a>	4	0.016 s	0.009 s	
<a href="#">ptxEmitter&gt;ptxEmitter.castregisters</a>	2	0.015 s	0.004 s	
<a href="#">...:ptxEmitter.mangleCprotoEntryLazyEval</a>	2	0.015 s	0.011 s	
<a href="#">ptxEmitter&gt;ptxEmitter.ptxEmitter</a>	2	0.014 s	0.007 s	
<a href="#">uitools\private\allchildRootHelper</a>	1281	0.014 s	0.014 s	
<a href="#">Symbols&gt;Symbols.makeTypedSymbol</a>	4	0.013 s	0.005 s	
<a href="#">ptxEmitter&gt;ptxEmitter.calculateOffset</a>	2	0.012 s	0.005 s	
<a href="#">signal\private\chkinputdatatype</a>	3072	0.011 s	0.011 s	
<a href="#">ptxEmitter&gt;ptxEmitter.castreg</a>	4	0.011 s	0.002 s	
<a href="#">time2freq_lamb_2</a>	1	0.011 s	0.007 s	
<a href="#">ptxEmitter&gt;ptxEmitter.makePrologue</a>	2	0.009 s	0.002 s	
<a href="#">findpeaks&gt;assignOutputs</a>	1536	0.009 s	0.009 s	
<a href="#">ptxEmitter&gt;ptxEmitter.formatInstruction</a>	65	0.009 s	0.008 s	
<a href="#">isduration</a>	4608	0.008 s	0.008 s	
<a href="#">...er&gt;ptxEmitter.storeSymbolsLazyEval</a>	2	0.008 s	0.001 s	
<a href="#">ptxEmitter&gt;ptxEmitter.storeSymbol</a>	2	0.007 s	0.005 s	
<a href="#">ptxEmitter&gt;ptxEmitter.arraySizeCheck</a>	2	0.006 s	0.003 s	
<a href="#">...er&gt;ptxEmitter.moduleHeaderLazyEval</a>	2	0.006 s	0.002 s	

<a href="#">Symbols&gt;Symbols.updateSymbol</a>	2	0.006 s	0.003 s	
<a href="#">ptxEmitter&gt;ptxEmitter.declareRegisters</a>	2	0.005 s	0.004 s	
<a href="#">close&gt;checkfigs</a>	1281	0.005 s	0.005 s	
<a href="#">num2str</a>	11	0.005 s	0.003 s	
<a href="#">isdatetime</a>	1536	0.005 s	0.005 s	
<a href="#">Symbols&gt;Symbols.scalarizeSymbols</a>	2	0.005 s	0.003 s	
<a href="#">mtree.mtree&gt;mtree.mtree</a>	2	0.005 s	0.003 s	
<a href="#">close&gt;request_close</a>	1281	0.005 s	0.005 s	
<a href="#">...te\compileAssignExpr&gt;prebinarycall</a>	2	0.004 s	0.002 s	
<a href="#">GPUDevice.GPUDevice&gt;GPUDevice.current</a>	2	0.004 s	0.004 s	
<a href="#">InternalState&gt;InternalState.tGet</a>	12	0.004 s	0.002 s	
<a href="#">Atomic&gt;Atomic.enumerate</a>	4	0.004 s	0.002 s	
<a href="#">ptxEmitter&gt;ptxEmitter.castregToFloat</a>	1	0.004 s	0.002 s	
<a href="#">...lState&gt;InternalState.InternalState</a>	2	0.004 s	0.004 s	
<a href="#">mtree.Outs</a>	2	0.004 s	0.004 s	
<a href="#">ptxEmitter&gt;ptxEmitter.copyreg</a>	5	0.004 s	0.002 s	
<a href="#">...r&gt;ptxEmitter.arithmeticInstruction</a>	2	0.003 s	0.003 s	
<a href="#">Atomic&gt;Atomic.coerceScalar</a>	19	0.003 s	0.003 s	
<a href="#">ptxEmitter&gt;ptxEmitter.functionHeader</a>	2	0.003 s	0.002 s	
<a href="#">...leAssignExpr&gt;variableInSymbolTable</a>	4	0.003 s	0.002 s	
<a href="#">Fibra_Monomodo_Input_Data</a>	148	0.003 s	0.003 s	
<a href="#">ptxEmitter&gt;ptxEmitter.getCodetable</a>	2	0.003 s	0.002 s	
<a href="#">ptxEmitter&gt;ptxEmitter.regsuffix</a>	10	0.003 s	0.001 s	
<a href="#">mtree.Ins</a>	2	0.003 s	0.003 s	
<a href="#">Atomic&gt;Atomic.cType</a>	6	0.003 s	0.002 s	
<a href="#">mtree.Next</a>	4	0.003 s	0.003 s	
<a href="#">ptxEmitter&gt;ptxEmitter.endEpilogue</a>	2	0.003 s	0.002 s	

<a href="#">Atomic&gt;Atomic.isSameBaseType</a>	6	0.002 s	0.001 s	
<a href="#">mtree.strings</a>	4	0.002 s	0.002 s	
<a href="#">mtree.mtree&gt;mtree.list</a>	4	0.002 s	0.000 s	
<a href="#">mtree.Left</a>	4	0.002 s	0.002 s	
<a href="#">mtree.Body</a>	2	0.002 s	0.002 s	
<a href="#">time2freq</a>	1	0.002 s	0.000 s	
<a href="#">mtree.Right</a>	4	0.002 s	0.002 s	
<a href="#">mtree.Arg</a>	2	0.002 s	0.002 s	
<a href="#">Symbols&gt;Symbols.makeemptysymbol</a>	2	0.002 s	0.001 s	
<a href="#">Atomic&gt;Atomic.coerceReal</a>	19	0.002 s	0.002 s	
<a href="#">mtree.List</a>	4	0.002 s	0.002 s	
<a href="#">int2str</a>	11	0.002 s	0.002 s	
<a href="#">Atomic&gt;Atomic.buildAtomic</a>	4	0.002 s	0.002 s	
<a href="#">mtree.wholetree</a>	2	0.002 s	0.002 s	
<a href="#">InternalState&gt;InternalState.ptrGet</a>	14	0.001 s	0.001 s	
<a href="#">Symbols&gt;Symbols.getSymbolIns</a>	8	0.001 s	0.001 s	
<a href="#">mtree.kind</a>	10	0.001 s	0.001 s	
<a href="#">ptxEmitter&gt;ptxEmitter.typesize</a>	8	0.001 s	0.001 s	
<a href="#">str2double</a>	2	0.001 s	0.001 s	
<a href="#">Symbols&gt;Symbols.makesymbol</a>	6	0.001 s	0.001 s	
<a href="#">Atomic&gt;Atomic.isDouble</a>	41	0.001 s	0.001 s	
<a href="#">Symbols&gt;Symbols.getSymbol</a>	8	0.001 s	0.001 s	
<a href="#">InternalState&gt;InternalState.fdGet</a>	23	0.001 s	0.001 s	
<a href="#">Atomic&gt;Atomic.isArray</a>	8	0.001 s	0.001 s	
<a href="#">nextpow2</a>	3	0.001 s	0.001 s	
<a href="#">...ter&gt;ptxEmitter.initializeRandState</a>	2	0.001 s	0.000 s	
<a href="#">mtree.string</a>	8	0.001 s	0.001 s	

<a href="#">Symbols&gt;Symbols.makeshapeinfo</a>	10	0.001 s	0.001 s	
<a href="#">InternalState&gt;InternalState.rGet</a>	20	0.001 s	0.001 s	
<a href="#">...r&gt;ptxEmitter.regsuffixForOperation</a>	5	0.001 s	0.001 s	
<a href="#">InternalState&gt;InternalState.rdGet</a>	14	0.001 s	0.001 s	
<a href="#">InternalState&gt;InternalState.getHeaders</a>	2	0.001 s	0.001 s	
<a href="#">Atomic&gt;Atomic.isSingle</a>	22	0.001 s	0.001 s	
<a href="#">...ter&gt;ptxEmitter.getVersionAndTarget</a>	2	0.001 s	0.001 s	
<a href="#">Symbols&gt;Symbols.updateshapeinfo</a>	2	0.001 s	0.001 s	
<a href="#">isNodeKindEqualsOrAnon</a>	2	0.001 s	0.000 s	
<a href="#">Atomic&gt;Atomic.isLogical</a>	8	0.001 s	0.001 s	
<a href="#">...ate&gt;InternalState.containsRandCall</a>	2	0.001 s	0.001 s	
<a href="#">Emitter&gt;Emitter.makehexnumber</a>	1	0.001 s	0.000 s	
<a href="#">arithmeticOperandInDoubleRule</a>	2	0.001 s	0.001 s	
<a href="#">Atomic&gt;Atomic.isComplexDouble</a>	19	0.001 s	0.001 s	
<a href="#">InternalState&gt;InternalState.labelGet</a>	2	0.000 s	0.000 s	
<a href="#">Symbols&gt;Symbols.symbolPresent</a>	4	0.000 s	0.000 s	
<a href="#">InternalState&gt;InternalState.pGet</a>	2	0.000 s	0.000 s	
<a href="#">ptxEmitter&gt;ptxEmitter.formatComment</a>	6	0.000 s	0.000 s	
<a href="#">CallInfo</a>	2	0.000 s	0.000 s	
<a href="#">InternalState&gt;InternalState.rhGet</a>	4	0.000 s	0.000 s	
<a href="#">Atomic&gt;Atomic.isComplexFloatingPoint</a>	3	0.000 s	0.000 s	
<a href="#">...t;InternalState.containsNonStaticLoop</a>	2	0.000 s	0.000 s	
<a href="#">...gt;ptxEmitter.initialCheckOfErrorFlag</a>	2	0.000 s	0.000 s	
<a href="#">Atomic&gt;Atomic.mType</a>	2	0.000 s	0.000 s	
<a href="#">...er&gt;ptxEmitter.getCurrentDebugState</a>	2	0.000 s	0.000 s	
<a href="#">ptxEmitter&gt;ptxEmitter.beginEpilogue</a>	2	0.000 s	0.000 s	
<a href="#">Atomic&gt;Atomic.isNumeric</a>	8	0.000 s	0.000 s	

<a href="#">...lState&gt;InternalState.getMachineptr</a>	10	0.000 s	0.000 s	
<a href="#">InternalState&gt;InternalState.getKernels</a>	2	0.000 s	0.000 s	
<a href="#">Atomic&gt;Atomic.validateIsScalar</a>	8	0.000 s	0.000 s	
<a href="#">...ter&gt;ptxEmitter.emitPtxWithComments</a>	31	0.000 s	0.000 s	
<a href="#">currentDeviceIndex</a>	2	0.000 s	0.000 s	
<a href="#">Atomic&gt;Atomic.isComplexSingle</a>	3	0.000 s	0.000 s	
<a href="#">pwd</a>	4	0.000 s	0.000 s	
<a href="#">...:InternalState.getCellArrayOfWarnings</a>	2	0.000 s	0.000 s	
<a href="#">Atomic&gt;Atomic.isComplex</a>	23	0.000 s	0.000 s	
<a href="#">...e&gt;InternalState.setCompilationNode</a>	2	0.000 s	0.000 s	
<a href="#">ptxEmitter&gt;ptxEmitter.formatLabel</a>	2	0.000 s	0.000 s	
<a href="#">mtree.isnull</a>	6	0.000 s	0.000 s	
<a href="#">InternalState&gt;InternalState.getRegP</a>	2	0.000 s	0.000 s	
<a href="#">...nternalState.setNodeForErrorMechanism</a>	2	0.000 s	0.000 s	
<a href="#">mtree.count</a>	10	0.000 s	0.000 s	
<a href="#">Atomic&gt;Atomic.isScalar</a>	6	0.000 s	0.000 s	
<a href="#">...e&gt;InternalState.getCompilationNode</a>	2	0.000 s	0.000 s	
<a href="#">isAnyDeviceSelected</a>	2	0.000 s	0.000 s	
<a href="#">...gt;InternalState.initializeBlockError</a>	4	0.000 s	0.000 s	
<a href="#">Emitter&gt;Emitter.Emitter</a>	2	0.000 s	0.000 s	
<a href="#">...ate&gt;InternalState.useDeviceLibrary</a>	2	0.000 s	0.000 s	
<a href="#">InternalState&gt;InternalState.getRuleset</a>	2	0.000 s	0.000 s	
<a href="#">InternalState&gt;InternalState.getRegFD</a>	2	0.000 s	0.000 s	
<a href="#">InternalState&gt;InternalState.getRegRD</a>	2	0.000 s	0.000 s	
<a href="#">InternalState&gt;InternalState.getRegRB</a>	2	0.000 s	0.000 s	
<a href="#">InternalState&gt;InternalState.getRegRH</a>	2	0.000 s	0.000 s	
<a href="#">InternalState&gt;InternalState.getRegF</a>	2	0.000 s	0.000 s	

<a href="#">InternalState&gt;InternalState.getRegR</a>	2	0.000 s	0.000 s	
<a href="#">Atomic&gt;Atomic.isRealFloatingPoint</a>	1	0.000 s	0.000 s	
<a href="#">Atomic&gt;Atomic.isFloatingPoint</a>	1	0.000 s	0.000 s	
<a href="#">Atomic&gt;Atomic.isInteger</a>	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.