Profile Summary
Generated 10-Sep-2018 17:49:31 using performance time.

| Function Name | Calls | Total Time | Self Time* | Total Time Plot (dark band = self time) |
|-------------------------------------|---------|---------------|---------------|---|
| MainOptimizing4 | 1 | 1068.486 s | 389.865 s | |
| Olho_mex (MEX-file) | 512 | 197.405 s | 197.405 s | _ |
| <u>findpeaks</u> | 1536 | 127.704 s | 2.095 s | |
| <u>DelayInterfG</u> | 8910 | 125.660 s | 125.660 s | |
| findpeaks>getAllPeaks | 1536 | 80.554 s | 4.006 s | |
| findpeaks>findLocalMaxima | 1536 | 76.547 s | 76.547 s | |
| <u>OpticalFFTGT</u> | 3810 | 75.657 s | 23.288 s | |
| <u>MeasPower</u> | 4352 | 75.484 s | 68.109 s | |
| <u>lqMod</u> | 256 | 48.796 s | 48.796 s | |
| <u>OpticalIFFTGT</u> | 2540 | 45.788 s | 8.870 s | I |
| <u>ProgationDelayT</u> | 1 | 33.898 s | 7.090 s | I |
| <u>FiltroGaussiano</u> | 644 | 19.074 s | 19.074 s | I |
| findpeaks>orderPeaks | 1536 | 16.846 s | 16.846 s | I |
| <u>SelectEachCarrier</u> | 1 | 15.917 s | 12.979 s | I |
| mean | 2038282 | 13.541 s | 13.541 s | I |
| findpeaks>removePeaksBelowThreshold | 1536 | 12.043 s | 12.043 s | I |
| linspace | 4865 | 7.392 s | 7.392 s | I |
| findpeaks>combinePeaks | 1536 | 6.547 s | 0.231 s | I |
| union | 1536 | 6.316 s | 0.080 s | I |
| union>unionR2012a | 1536 | 6.236 s | 1.062 s | |

| Fibra_Monomodo1 132 5.871 s 5.779 s I fftshift 1037 5.519 s 5.519 s I DqpskEncodEqT 256 5.328 s 5.326 s | | | | | 1 |
|--|---|------|---------|---------|---|
| DqpskEncodEqT 256 5.328 s 5.326 s unique 1536 5.174 s 0.125 s unique≥uniqueR2012a 1536 5.049 s 5.049 s findpeaks>removePeaksBelowMinPeakHeight 1536 5.040 s 5.040 s findpeaks>parse_inputs 1536 3.525 s 3.197 s rectpulse 515 1.522 s 1.522 s aksSeparatedByMoreThanMinPeakDistance 1536 0.898 s 0.898 s validatestring 4608 0.248 s 0.095 s close 257 0.218 s 0.019 s findpeaks>keepAtMostNpPeaks 1536 0.146 s 0.172 s findpeaks>keepAtMostNpPeaks 1536 0.146 s 0.146 s close>safegetchildren 257 0.142 s 0.026 s allchild 257 0.116 s 0.067 s hist 512 0.109 s 0.099 s validatestring>checkString 4608 0.061 s 0.061 s validatestring>checkInputs 4608 0.061 s 0.057 s | Fibra_Monomodo1 | 132 | 5.871 s | 5.779 s | I |
| unique 1536 5.174 s 0.125 s unique≥uniqueR2012a 1536 5.049 s 5.049 s findpeaks≥removePeaksBelowMinPeakHeight 1536 5.040 s findpeaks≥parse_inputs 1536 3.525 s 3.197 s rectpulse 515 1.522 s 1.522 s aksSeparatedByMoreThanMinPeakDistance 1536 0.898 s 0.898 s validatestring 4608 0.248 s 0.095 s close 257 0.218 s 0.019 s flipud 1024 0.172 s 0.172 s findpeaks≥keepAtMostNpPeaks 1536 0.146 s 0.146 s close≥safegetchildren 257 0.142 s 0.026 s allchild 257 0.116 s 0.067 s hist 512 0.109 s 0.099 s validatestring≥checkString 4608 0.092 s 0.092 s validatestring≥checkInputs 4608 0.061 s 0.061 s target 9216 0.057 s 0.057 s close≥getEmptyHandleList 257 0.054 s 0.054 s time2freq_lamb_2 5 0.036 s 0.029 s set_MZ_Input_Data_Simp 5 0.033 s 0.028 s onCleanup>onCleanup.onCleanup 257 0.013 s 0.013 s allchild>getchildren 257 0.012 s 0.012 s | fftshift | 1037 | 5.519 s | 5.519 s | 1 |
| unique>uniqueR2012a 1536 5.049 s 5.049 s findpeaks>removePeaksBelowMinPeakHeight 1536 5.040 s 5.040 s findpeaks>parse_inputs 1536 3.525 s 3.197 s rectpulse 515 1.522 s 1.522 s aksSeparatedByMoreThanMinPeakDistance 1536 0.898 s 0.898 s validatestring 4608 0.248 s 0.095 s close 257 0.218 s 0.019 s flipud 1024 0.172 s 0.172 s findpeaks>keepAtMostNpPeaks 1536 0.146 s 0.146 s close>safegetchildren 257 0.142 s 0.026 s allchild 257 0.142 s 0.026 s allchild 257 0.116 s 0.067 s hist 512 0.109 s 0.099 s validatestring>checkString 4608 0.092 s 0.092 s validatestring>checkInputs 4608 0.061 s 0.057 s close>getEmptyHandleList 257 0.054 s 0.054 s | <u>DqpskEncodEqT</u> | 256 | 5.328 s | 5.326 s | |
| findpeaks>removePeaksBelowMinPeakHeight 1536 5.040 s 5.040 s findpeaks>parse_inputs 1536 3.525 s 3.197 s rectpulse 515 1.522 s 1.522 s aksSeparatedByMoreThanMinPeakDistance 1536 0.898 s 0.898 s validatestring 4608 0.248 s 0.095 s close 257 0.218 s 0.019 s flipud 1024 0.172 s 0.172 s findpeaks>keepAtMostNpPeaks 1536 0.146 s 0.146 s close>safegetchildren 257 0.112 s 0.026 s allchild 257 0.116 s 0.067 s hist 512 0.109 s 0.099 s validatestring>checkString 4608 0.092 s 0.092 s validatestring>checkInputs 4608 0.061 s 0.061 s target 9216 0.057 s 0.057 s close>getEmptyHandleList 257 0.054 s 0.054 s time2freq_lamb_2 5 0.033 s 0.028 s | unique | 1536 | 5.174 s | 0.125 s | |
| findpeaks>parse_inputs 1536 3.525 s 3.197 s rectpulse 515 1.522 s 1.524 s 1.525 s 1.525 s 1.526 s 1.527 s 1.522 s 1.526 s 1.526 s 1.522 s 1.526 s 1.522 s 1.526 s 1.526 s 1.526 s 1.526 s 1.522 s 1.526 s 1.526 s 1.526 s 1.526 s 1.526 s 1.522 s 1.526 s 1 | unique>uniqueR2012a | 1536 | 5.049 s | 5.049 s | |
| rectpulse 515 1.522 s 1.522 saksSeparatedByMoreThanMinPeakDistance 1536 0.898 s 0.898 s validatestring 4608 0.248 s 0.095 sset(rootobj,'ShowHiddenHandles',Temp) 257 0.013 s 0.013 sset(rootobj,'ShowHiddenHandles',Temp) 257 0.013 s 0.013 sset(rootobj,'ShowHiddenHandles',Temp) 257 0.012 s 0.013 sset(rootobj,'ShowHiddenHandles',Temp) 257 0.012 s 0.012 sset(rootobj,'ShowHiddenHandles',Temp) 257 0.012 s 0.0013 sset(rootobj,'ShowHiddenHandles',Temp) 257 0.012 s 0.0013 sset(rootobj,'ShowHiddenHandles',Temp) 257 0.012 s 0.0012 sset(rootobj,'ShowHiddenHandles', Temp) 257 0.012 s 0.0012 sset(rootobj,'ShowHiddenHandles', Temp) 257 0.012 s 0.0012 sset(rootobj,'ShowHiddenHandles', Temp) 257 0.013 s 0.013 sset(rootobj,'ShowHiddenHandles', Temp) 257 0.012 s 0.0012 sset(rootobj,'ShowHiddenHandles', Temp) 257 0.012 s 0.0012 sset(rootobj,'ShowHiddenHandles', Temp) 257 0.013 s 0.013 sset(rootobj,'ShowHiddenHandles', Temp) 257 0.013 s 0.013 sset(rootobj,'ShowHiddenHandles', Temp) 257 0.012 s 0.0012 sset(ro | findpeaks>removePeaksBelowMinPeakHeight | 1536 | 5.040 s | 5.040 s | |
| aksSeparatedByMoreThanMinPeakDistance 1536 0.898 s 0.898 s validatestring 4608 0.248 s 0.095 s close 257 0.218 s 0.019 s flipud 1024 0.172 s 0.172 s findpeaks>keepAtMostNpPeaks 1536 0.146 s 0.146 s close>safegetchildren 257 0.142 s 0.026 s allchild 257 0.116 s 0.067 s hist 512 0.109 s 0.099 s validatestring>checkString 4608 0.092 s 0.092 s validatestring>checkInputs 4608 0.061 s 0.061 s target 9216 0.057 s 0.057 s close>getEmptyHandleList 257 0.054 s 0.054 s time2freq_lamb_2 5 0.036 s 0.029 s Set_MZ_Input_Data_Simp 5 0.033 s 0.028 s onCleanup>onCleanup.delete 257 0.013 s 0.013 s onCleanup>onCleanup.onCleanup 257 0.013 s 0.013 s allchild>getchildren 257 0.012 s 0.012 s | findpeaks>parse_inputs | 1536 | 3.525 s | 3.197 s | |
| validatestring 4608 0.248 s 0.095 s close 257 0.218 s 0.019 s flipud 1024 0.172 s 0.172 s findpeaks>keepAtMostNpPeaks 1536 0.146 s 0.146 s close>safegetchildren 257 0.142 s 0.026 s allchild 257 0.116 s 0.067 s hist 512 0.109 s 0.099 s validatestring>checkString 4608 0.092 s 0.092 s validatestring>checkInputs 4608 0.061 s 0.061 s target 9216 0.057 s 0.057 s close>getEmptyHandleList 257 0.054 s 0.054 s time2freq_lamb_2 5 0.036 s 0.029 s Set_MZ_Input_Data_Simp 5 0.033 s 0.028 s onCleanup>onCleanup_delete 257 0.013 s 0.013 s set(rootobj, 'ShowHiddenHandles', Temp) 257 0.013 s 0.013 s allchild>getchildren 257 0.012 s 0.012 s | rectpulse | 515 | 1.522 s | 1.522 s | |
| close 257 0.218 s 0.019 s flipud 1024 0.172 s 0.172 s findpeaks>keepAtMostNpPeaks 1536 0.146 s 0.146 s close>safegetchildren 257 0.142 s 0.026 s allchild 257 0.116 s 0.067 s hist 512 0.109 s 0.099 s validatestring>checkString 4608 0.092 s 0.092 s validatestring>checkInputs 4608 0.061 s 0.061 s target 9216 0.057 s 0.057 s close>getEmptyHandleList 257 0.054 s 0.054 s time2freq_lamb_2 5 0.036 s 0.029 s Set_MZ_Input_Data_Simp 5 0.033 s 0.028 s onCleanup>onCleanup.delete 257 0.013 s 0.013 s set(rootobj,'ShowHiddenHandles',Temp) 257 0.013 s 0.013 s allchild>getchildren 257 0.012 s 0.012 s | aksSeparatedByMoreThanMinPeakDistance | 1536 | 0.898 s | 0.898 s | |
| flipud 1024 0.172 s 0.172 s findpeaks>keepAtMostNpPeaks 1536 0.146 s 0.050 s 0.026 s 0.142 s 0.026 s 0.067 s 0.116 s 0.067 s 0.099 s 0.099 s 0.099 s 0.099 s 0.099 s 0.099 s 0.092 s 0.092 s 0.092 s 0.092 s 0.092 s 0.061 s 0.061 s 0.061 s 0.061 s 0.061 s 0.061 s 0.057 s 0.057 s 0.057 s 0.057 s 0.054 s 0.055 s 0 | validatestring | 4608 | 0.248 s | 0.095 s | |
| findpeaks>keepAtMostNpPeaks 1536 0.146 s 0.146 s close>safegetchildren 257 0.142 s 0.026 s allchild 257 0.116 s 0.067 s hist 512 0.109 s 0.099 s validatestring>checkString 4608 0.092 s 0.092 s validatestring>checkInputs 4608 0.061 s 0.061 s target 9216 0.057 s 0.057 s close>getEmptyHandleList 257 0.054 s 0.054 s time2freq_lamb_2 5 0.036 s 0.029 s Set_MZ_Input_Data_Simp 5 0.033 s 0.028 s onCleanup>onCleanup.delete 257 0.013 s 0.013 s set(rootobj, 'ShowHiddenHandles', Temp) 257 0.013 s 0.013 s allchild>getchildren 257 0.012 s 0.012 s | close | 257 | 0.218 s | 0.019 s | |
| close>safegetchildren 257 0.142 s 0.026 s allchild 257 0.116 s 0.067 s hist 512 0.109 s 0.099 s validatestring>checkString 4608 0.092 s 0.092 s validatestring>checkInputs 4608 0.061 s 0.061 s target 9216 0.057 s 0.057 s close>getEmptyHandleList 257 0.054 s 0.054 s time2freq_lamb_2 5 0.036 s 0.029 s Set_MZ_Input_Data_Simp 5 0.033 s 0.028 s onCleanup>onCleanup.delete 257 0.013 s 0.013 s onCleanup>onCleanup.onCleanup 257 0.013 s 0.013 s allchild>getchildren 257 0.012 s 0.012 s | flipud | 1024 | 0.172 s | 0.172 s | |
| allchild 257 0.116 s 0.067 s hist 512 0.109 s 0.099 s validatestring>checkString 4608 0.092 s 0.092 s validatestring>checkInputs 4608 0.061 s 0.061 s target 9216 0.057 s 0.057 s close>getEmptyHandleList 257 0.054 s 0.054 s time2freq_lamb_2 5 0.036 s 0.029 s Set_MZ_Input_Data_Simp 5 0.033 s 0.028 s onCleanup>onCleanup.delete 257 0.020 s 0.007 s set(rootobj,'ShowHiddenHandles',Temp) 257 0.013 s 0.013 s onCleanup>onCleanup.onCleanup 257 0.013 s 0.013 s allchild>getchildren 257 0.012 s 0.012 s | findpeaks>keepAtMostNpPeaks | 1536 | 0.146 s | 0.146 s | |
| hist 512 0.109 s 0.099 s validatestring>checkString 4608 0.092 s 0.092 s validatestring>checkInputs 4608 0.061 s 0.061 s target 9216 0.057 s 0.057 s close>getEmptyHandleList 257 0.054 s 0.054 s time2freq_lamb_2 5 0.036 s 0.029 s Set_MZ_Input_Data_Simp 5 0.033 s 0.028 s onCleanup>onCleanup.delete 257 0.020 s 0.007 s set(rootobj, 'ShowHiddenHandles', Temp) 257 0.013 s 0.013 s onCleanup>onCleanup.onCleanup 257 0.013 s 0.013 s allchild>getchildren 257 0.012 s 0.012 s | close>safegetchildren | 257 | 0.142 s | 0.026 s | |
| validatestring>checkString 4608 0.092 s 0.092 s validatestring>checkInputs 4608 0.061 s 0.061 s target 9216 0.057 s 0.057 s close>getEmptyHandleList 257 0.054 s 0.054 s time2freq_lamb_2 5 0.036 s 0.029 s Set_MZ_Input_Data_Simp 5 0.033 s 0.028 s onCleanup>onCleanup.delete 257 0.020 s 0.007 s set(rootobj,'ShowHiddenHandles',Temp) 257 0.013 s 0.013 s onCleanup>onCleanup.onCleanup 257 0.013 s 0.013 s allchild>getchildren 257 0.012 s 0.012 s | allchild | 257 | 0.116 s | 0.067 s | |
| validatestring>checkInputs 4608 0.061 s 0.061 s target 9216 0.057 s 0.057 s close>getEmptyHandleList 257 0.054 s 0.054 s time2freq_lamb_2 5 0.036 s 0.029 s Set_MZ_Input_Data_Simp 5 0.033 s 0.028 s onCleanup>onCleanup.delete 257 0.020 s 0.007 s set(rootobj,'ShowHiddenHandles',Temp) 257 0.013 s 0.013 s onCleanup>onCleanup.onCleanup 257 0.013 s 0.013 s allchild>getchildren 257 0.012 s 0.012 s | hist | 512 | 0.109 s | 0.099 s | |
| target 9216 0.057 s 0.057 s close>getEmptyHandleList 257 0.054 s 0.054 s time2freq_lamb_2 5 0.036 s 0.029 s Set_MZ_Input_Data_Simp 5 0.033 s 0.028 s onCleanup>onCleanup.delete 257 0.020 s 0.007 s set(rootobj,'ShowHiddenHandles',Temp) 257 0.013 s 0.013 s onCleanup>onCleanup.onCleanup 257 0.013 s 0.013 s allchild>getchildren 257 0.012 s 0.012 s | validatestring>checkString | 4608 | 0.092 s | 0.092 s | |
| close>getEmptyHandleList 257 0.054 s 0.054 s time2freq_lamb_2 5 0.036 s 0.029 s Set_MZ_Input_Data_Simp 5 0.033 s 0.028 s onCleanup>onCleanup.delete 257 0.020 s 0.007 s set(rootobj,'ShowHiddenHandles',Temp) 257 0.013 s 0.013 s onCleanup>onCleanup.onCleanup 257 0.013 s 0.013 s allchild>getchildren 257 0.012 s 0.012 s | validatestring>checkInputs | 4608 | 0.061 s | 0.061 s | |
| time2freq_lamb_2 5 0.036 s 0.029 s Set_MZ_Input_Data_Simp 5 0.033 s 0.028 s onCleanup>onCleanup.delete 257 0.020 s 0.007 s set(rootobj,'ShowHiddenHandles',Temp) 257 0.013 s 0.013 s onCleanup>onCleanup.onCleanup 257 0.013 s 0.013 s allchild>getchildren 257 0.012 s 0.012 s | target | 9216 | 0.057 s | 0.057 s | |
| Set_MZ_Input_Data_Simp 5 0.033 s 0.028 s onCleanup>onCleanup.delete 257 0.020 s 0.007 s set(rootobj,'ShowHiddenHandles',Temp) 257 0.013 s 0.013 s onCleanup>onCleanup.onCleanup 257 0.013 s 0.013 s allchild>getchildren 257 0.012 s 0.012 s | close>getEmptyHandleList | 257 | 0.054 s | 0.054 s | |
| onCleanup>onCleanup.delete2570.020 s0.007 sset(rootobj,'ShowHiddenHandles',Temp)2570.013 s0.013 sonCleanup>onCleanup.onCleanup2570.013 s0.013 sallchild>getchildren2570.012 s0.012 s | time2freq_lamb_2 | 5 | 0.036 s | 0.029 s | |
| set(rootobj,'ShowHiddenHandles',Temp) 257 0.013 s 0.013 s onCleanup>onCleanup.onCleanup 257 0.013 s 0.013 s allchild>getchildren 257 0.012 s 0.012 s | Set_MZ_Input_Data_Simp | 5 | 0.033 s | 0.028 s | |
| onCleanup>onCleanup.onCleanup2570.013 s0.013 sallchild>getchildren2570.012 s0.012 s | onCleanup>onCleanup.delete | 257 | 0.020 s | 0.007 s | |
| allchild>getchildren 257 0.012 s 0.012 s | set(rootobj,'ShowHiddenHandles',Temp) | 257 | 0.013 s | 0.013 s | |
| | onCleanup>onCleanup.onCleanup | 257 | 0.013 s | 0.013 s | |
| signal\private\chkinputdatatype 3072 0.011 s 0.011 s | allchild>getchildren | 257 | 0.012 s | 0.012 s | |
| | signal\private\chkinputdatatype | 3072 | 0.011 s | 0.011 s | |

| axescheck | 512 | 0.010 s | 0.010 s |
|------------------------------------|------|---------|---------|
| findpeaks>assignOutputs | 1536 | 0.009 s | 0.009 s |
| isduration | 4608 | 0.008 s | 0.008 s |
| num2str | 10 | 0.005 s | 0.003 s |
| <u>isdatetime</u> | 1536 | 0.005 s | 0.005 s |
| uitools\private\allchildRootHelper | 257 | 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 |
| int2str | 10 | 0.002 s | 0.002 s |
| close>checkfigs | 257 | 0.001 s | 0.001 s |
| close>request_close | 257 | 0.001 s | 0.001 s |
| nextpow2 | 3 | 0.001 s | 0.001 s |
| pwd | 4 | 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.