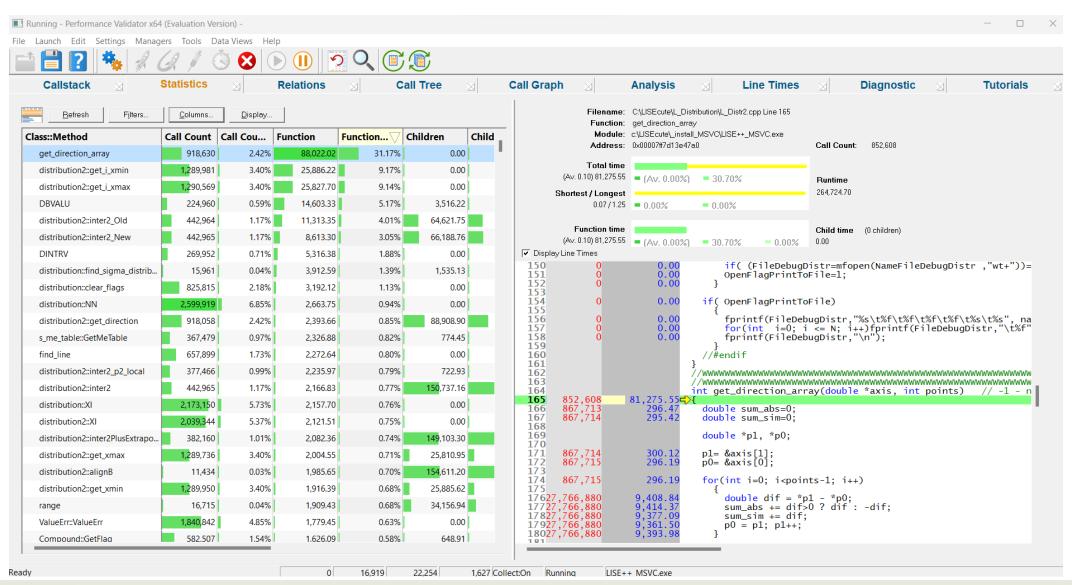
Performance Validator



Installing

\$299.00

30 Day Free Trial

Buy Now

Change History

Documentation

The program is available from Software Verify and can be tested using a free trial, or by obtaining licenses.

https://www.softwareverify.com/product/performance-validator/



Software Tools ∨ Developers ∨ Purchasing ∨ About ∨ 🣜

C# and C++ profiler - Performance Validator 7.79

Struggling to find the performance bottlenecks for your software written in multiple languages?

Do you want to view a real-time call stack as your application executes?

Do you want to automate your performance profiling?

Do you want to post your profiling results on your company intranet in HTML or XML?

If that sounds like you, we've got a software profiling tool for you.

FREE educational license:

Do not share the licence with your fellow students - you may find yourself locked out if you do. If any student would like a free educational licence tell them to contact support with their details, using their .edu email address. They don't have to be based at MSU or in the USA, but they do need an educational email address .edu, .ac.uk, etc.

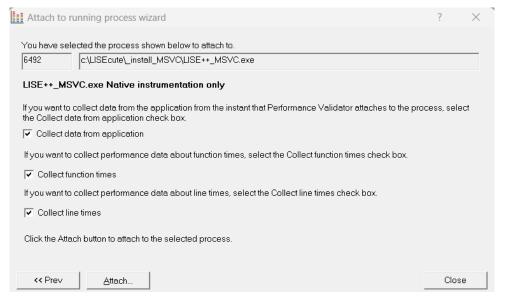
Feel free to write about these free educational licences on your blog/twitter/thread/facebook/etc.

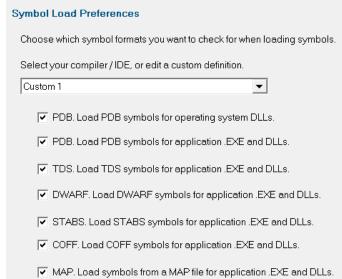
Educational licences are available for Coverage Validator, Memory Validator, Performance Validator and Thread Validator.

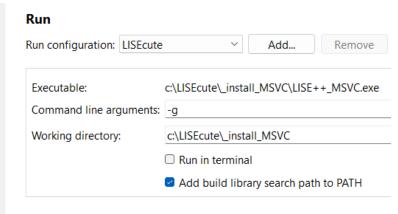
https://www.softwareverify.com/support/

Set Up

Inject into program running in Profile mode







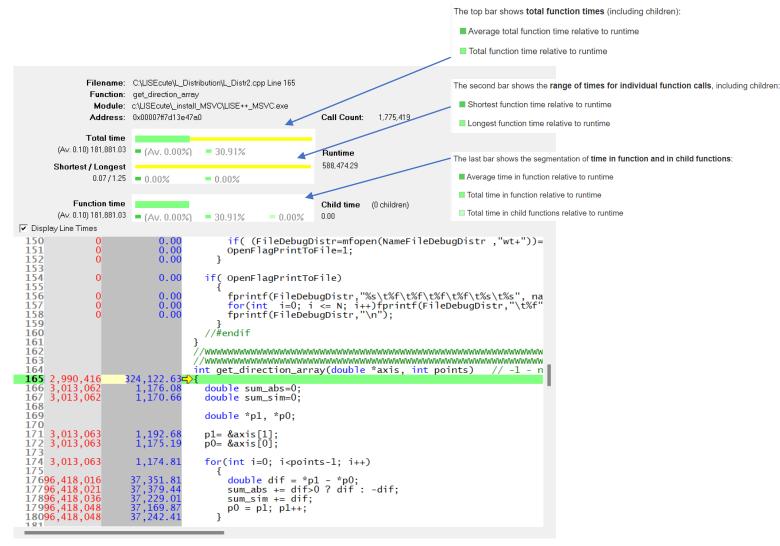
Once you are done running the program, close it so the profiler program can save and present the data.





Statistics + Source Code View

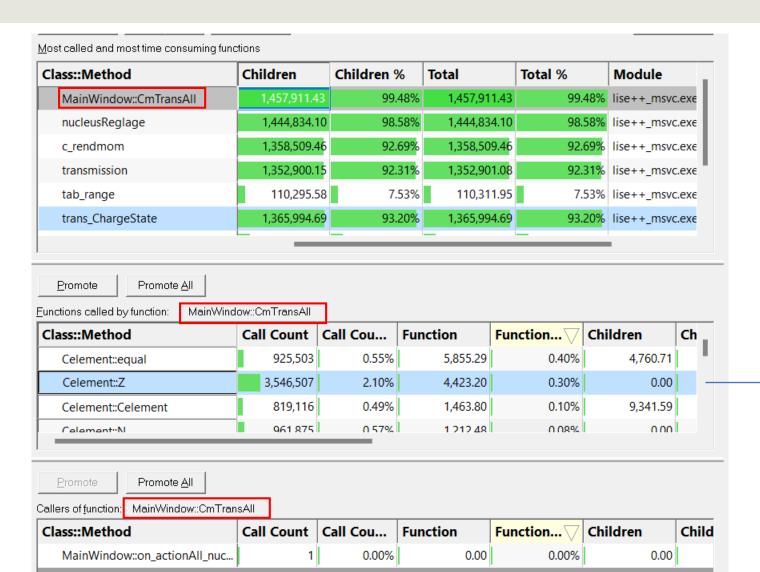
Num Av Func	Av Fu Av Total Av Tot Call C Call Cou	
Attribute	Description	
Num Children	# of child functions	
Av Function	Average time a function takes to execute	
Av Total	Average total time a function + child functions takes to execute	
Call Count	# of times a function is called	
Function	Time it takes a function to execute	
Children	Time a function's child functions take to execute	
Total	Time a function + child functions take to execute	
Longest	Longest time a function + child functions take to execute	
Shortest	Shortest time a function + child functions take to execute	



Visit count | Time



Relations

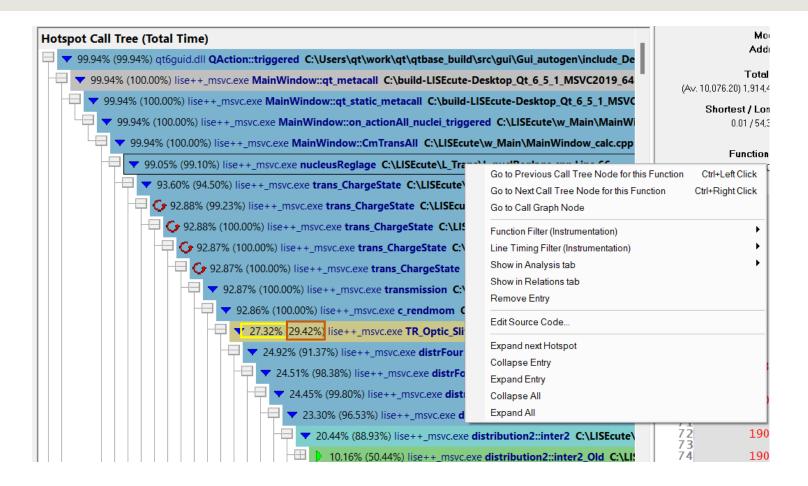


Display:

Av. Total Time	•
Call Count	
Function Time	
Total Time	
Av. Total Time	
Av. Func Time	

```
109
110 3,546,507
                                                   int Z() const {return z;};
int N() const {return n;};
int A() const {return a;};
int Q() const {return q;};
                                 4,423.20<del>□</del>
1,212.48
           961,875
111
                                 3,599.48
112
        2,877,644
113
                                       0.25
114
             57,994
57,994
                                                    void ChangeVerify(bool v){Verify=v;};
bool GetVerify() const {return Verify;};
115
116
                                      70.30
117
                                                    double Zd() const {return double(z);};
double Nd() const {return double(n);};
double Ad() const {return double(a);};
double Qd() const {return double(q);};
118
        1,039,689
                                 1,296.14
119
               4.916
120
         2,209,067
                                 2,709.61
121
             71,934
                                      97.18
122
123
                  517
                                       0.68
                                                    void SetQ(int q_init) {q=q_init;};
124
                                                    bool IsPrimaryBeam();
125 1,310,619
                                 1,613.96
                                                    bool IsGamma() {return (z==0 && n==0);};
```

Call Tree



TR_Optic_Slit -> Contributed 29.42% of its parent's function time Contributed 27.32% to total run time

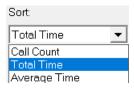


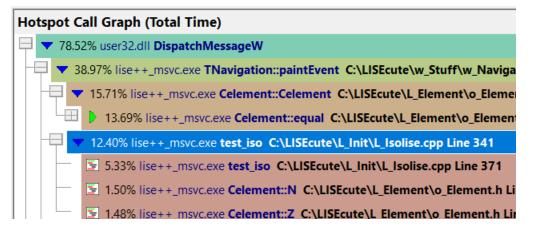
Call tree colours

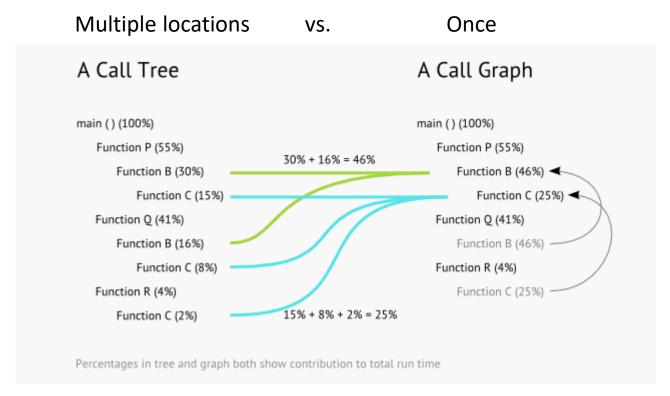
The tree is coloured using the customisable Hotspot Colours settings that range from 100% down to 0%.



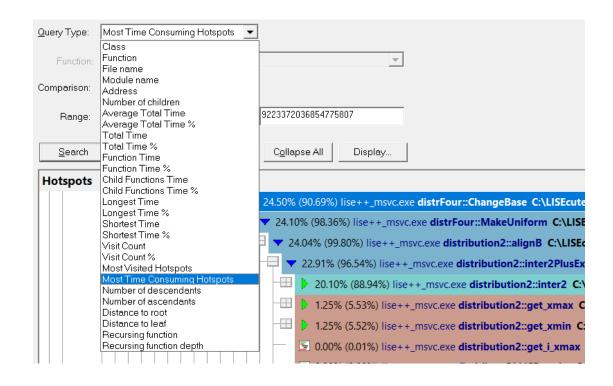
Call Graph







Analysis + Line Times



File		Visit Count	Total
\Box	C:\LISEcute\L_Distribution\o_Distr2.h	66	0.68
\Box	C:\LISEcute\L_Dbf\d_getrec.cpp	11,820	20.77
\Box	C:\LISEcute\L_Dbf\d_getfld.cpp	12,760	7.62
\Box	C:\LISEcute\L_Dbf\d_delrec.cpp	0	0.00
\Box	C:\LISEcute\L_Dbf\d_cpystr.cpp	0	0.00
\Box	C:\LISEcute\L_Dbf\d_addrec.cpp	0	0.00
\Box	C:\LISEcute\L_Calise\L_Charges_optimum.cpp	340	0.31
	C:\LISEcute\L_Calise\L_Charges_global.cpp	703	3,006.81