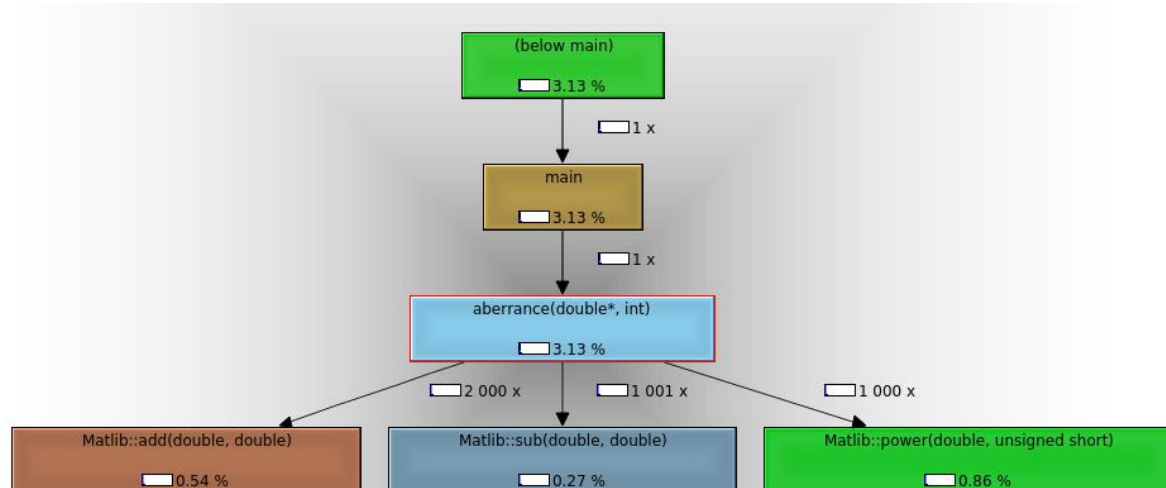


Pro pro 1000 čísel:



```

28 double aberrance( double numbers[], int numSize )
29 0.00 {
30     Matlib math; //creating a instation of class
31 0.00 long double sum = 0;
32 0.00 double tmp = 0;
33
34 0.13 for ( int i = 0; i < numSize; i++ )
35     {
36         //count average
37 0.19 tmp = numbers[i];
38 0.30 sum = math.add(sum, tmp);
39 0.27 1000 call(s) to 'Matlib::add(double, double)' (stddeviation: matlab.cpp)
40     }
41     double average = math.div(sum,numSize);
42 0.00 1 call(s) to 'Matlib::div(double, double)' (stddeviation: matlab.cpp)
43
44 0.00 long double sumOfNumbers = 0;
45
46 0.13 for ( int j = 0; j < numSize; j++ )
47     {
48         // sumOfNumbers = sumOfNumbers + (( x - average)^2)
49 0.67 sumOfNumbers = math.add( ( math.power( math.sub( numbers[j], average ), 2 ) ), sumOfNumbers);
50 0.27 1000 call(s) to 'Matlib::add(double, double)' (stddeviation: matlab.cpp)
51 0.27 1000 call(s) to 'Matlib::sub(double, double)' (stddeviation: matlab.cpp)
52 0.86 1000 call(s) to 'Matlib::power(double, unsigned short)' (stddeviation: matlab.cpp)
53     }
54     // total = 1 / (N-1) * sumOfNumbers
55     double total = 0;
56     total = math.mul( sumOfNumbers, math.div( 1, math.sub( numSize, 1 ) ));
57 0.00 1 call(s) to 'Matlib::mul(double, double)' (stddeviation: matlab.cpp)
58 0.00 1 call(s) to 'Matlib::sub(double, double)' (stddeviation: matlab.cpp)
59 0.00 1 call(s) to 'Matlib::div(double, double)' (stddeviation: matlab.cpp)
60
61 0.00 double result = math.root(total, 2);
62 0.03 1 call(s) to 'Matlib::root(double, unsigned short)' (stddeviation: matlab.cpp)
63
64 0.00 return result;
65 0.00 }
66

```

Incl.	Self	Called	Function	Location
100.00	0.00	(0)	0x0000000000001100	ld-2.31.so
56.73	0.03	1	_dl_start	ld-2.31.so: rtld.c, dl-machine.h, get-dynamic-info.h, do-rel.h
56.70	0.02	1	_dl_sysdep_start	ld-2.31.so: dl-sysdep.c, dl-sysdep.c, cpu-features.c, cpu-features.c
56.36	0.04	1	_dl_main	ld-2.31.so: rtld.c, dl-prop.h, get-dynamic-info.h, setup-ldso.h, dl-ldso.h, dl-ldso-setup.h, dl-osinfo.h
54.95	10.17	7	_dl_relocate_object	ld-2.31.so: dl-reloc.c, dl-machine.h, do-rel.h, ldsodefs.h
47.26	26.17	2 244	_dl_lookup_symbol_x	ld-2.31.so: dl-lookup.c
41.02	0.00	1	_start	stddeviation
41.02	0.00	1	(below main)	libc-2.31.so: libc-start.c
38.01	0.62	1	main	stddeviation: stddeviation.cpp
33.04	0.05	1 001	0x0000000000010a1f0	(unknown)
32.99	0.05	1 001	std::istream::operator>>(d...	libstdc++.so.6.0.28
32.93	0.05	1 001	0x0000000000048e46a0	(unknown)
32.51	1.27	1 000	std::istream& std::istream::...	libstdc++.so.6.0.28
29.76	2.75	1 000	std::num_get<char, std::ist...	libstdc++.so.6.0.28
21.08	15.70	2 244	_dl_lookup_x	ld-2.31.so: dl-lookup.c, ldsodefs.h
12.44	0.05	1 000	0x0000000000048e5320	(unknown)
12.33	0.92	999	void std::convert_to_v<d...	libstdc++.so.6.0.28
11.44	0.05	1 000	0x0000000000048e5f30	(unknown)
11.36	0.11	999	strtod_l	libc-2.31.so: strtod_l.c
11.26	6.16	1 000	__strtod_l_internal	libc-2.31.so: strtod_l.c
7.78	0.05	1 000	0x0000000000048e6f60	(unknown)
7.67	5.57	999	std::num_get<char, std::ist...	libstdc++.so.6.0.28
7.62	0.11	100	_dl_runtime_resolve_xsave2	ld-2.31.so: dl-trampoline.h
6.24	0.02	21	_dl_runtime_resolve_xsave	ld-2.31.so: dl-trampoline.h
5.27	3.26	2 229	check_match	ld-2.31.so: dl-lookup.c
3.92	0.05	1 000	0x0000000000048e3960	(unknown)
3.80	0.86	999	std::string::reserve(unsign...	libstdc++.so.6.0.28
3.25	0.05	1 002	0x0000000000048e3f10	(unknown)
3.13	1.43	1	aberrance(double*, int)	stddeviation: stddeviation.cpp
2.99	0.05	1 000	0x0000000000048e5380	(unknown)
2.88	0.70	999	std::string::Rep::M_clone(...	libstdc++.so.6.0.28
2.84	0.00	1	_libc_csu_init	stddeviation
2.84	0.00	1	_GLOBAL__sub_I_Z9aberra...	stddeviation: stddeviation.cpp
2.84	0.00	1	_static_initialization_and_d...	stddeviation: stddeviation.cpp, iostream
2.83	0.00	1	0x0000000000010a280	(unknown)
2.83	0.01	1	std::ios_base::Init::Init()	libstdc++.so.6.0.28
2.77	0.26	121	_dl_fixup	ld-2.31.so: dl-runtime.c, dl-machine.h, dl-irel.h
2.54	0.05	1 000	0x0000000000048e3740	(unknown)
2.43	0.05	999	std::string::Rep::M_destr...	libstdc++.so.6.0.28
2.42	0.05	1 001	0x0000000000048e4120	(unknown)
2.40	1.97	1 000	round_and_return	libc-2.31.so: strtod_l.c, get-rounding-mode.h, rounding-mode.h
2.32	0.05	1 000	operator delete(void*)	libstdc++.so.6.0.28
2.31	2.31	2 635	strcmp	ld-2.31.so: strcmp.S
2.29	0.05	1 001	0x0000000000048e4980	(unknown)
2.25	0.00	1	_dl_init	ld-2.31.so: dl-init.c
2.25	0.01	7	call_init.part.0	ld-2.31.so: dl-init.c
2.22	0.57	1 001	free	libc-2.31.so: malloc.c
2.21	0.05	1 000	0x0000000000048e33a0	(unknown)
2.13	0.59	999	std::string::Rep::S_create...	libstdc++.so.6.0.28
2.05	0.00	1	0x0000000000048e3280	(unknown)
callrind.out.376 [1] - Total Instruction Fetch Cost: 3 706 741				
56			//main function - to read numbers from file	
57				
58			int main( int argc, char *argv[])	
59	0.00		{	
60	0.00		ifstream file;	
0.17			1 call(s) to '0x0000000000010a260'	
0.23			1 call(s) to '0x0000000000010a1a0'	
61				
62				
63	0.00		if ( argc != 2 )	
64			{	
65			cerr << "there must be 1 argument - file with array of numbers" << endl ;	
66			return 0;	
67			}	
68			else	
69			{	
70	0.00		char *fileNum = argv[1];	
71	0.00		file.open( fileNum, ifstream::in );	
0.20			1 call(s) to '0x0000000000010a1d0'	
72	0.00		if ( !file.is_open() ) //for case program can not open a file	
0.00			1 call(s) to '0x0000000000010a290'	
73			{	
74			throw new std::runtime_error("Failed to open file");	
75			return 0;	
...				
77			}	
78			double num;	
79			double array[10000]; // load numbers to this array	
80	0.00		double numSize = 0;	
81	0.41		for ( int i = 0; file >> num ; i++ )	
0.16			1001 call(s) to '0x0000000000010a270'	
33.04			1001 call(s) to '0x0000000000010a1f0'	
82			{	
83	0.11		array[i] = num;	
84	0.11		numSize++;	
85			}	
86				
87	0.00		double deviation = aberrance( array, numSize);	
3.13			1 call(s) to 'aberrance(double*, int)' (stddeviation: stddeviation.cpp)	
88	0.00		cout << deviation << endl;	
0.09			1 call(s) to '0x0000000000010a240'	
0.37			1 call(s) to '0x0000000000010a2d0'	
89	0.00		return 0;	
90	0.00		}	
91				

main

