

IVS - Profiling

TheCalcIsALie

28. dubna 2022

Program prošel 1000000 vzorků a nebylo u něj zjištěno žádné zpomalení nebo možnost pro optimalizaci. Níže jsou snímky obrazovky z profileru a grafické vyobrazení procesů při výpočtu směrodatné odchylky.



profiling.gprof - Poznámkový blok
Soubor Úpravy Formát Zobrazení nápověda
Flat profile:

Each sample counts as 0.01 seconds.

time	% cumulative	seconds	self seconds	calls	ms/call	total ms/call	name
26.60	0.17	0.17	0.00	0.00	0.00	0.00	main
15.65	0.27	0.19	20000002	0.00	0.00	0.00	bool __gnu_cxx::operator+=(long double*, std::vector<long double, std::allocator<long double> > >(&__gnu_cxx::__normal_iterator<long double*, std::vector<long double, std::allocator<long double> > >::__base() const
12.52	0.35	0.08	100000000	0.00	0.00	0.00	void __gnu_cxx::new_allocator<long double>::construct<long double, long double const&(long double*, long double const&)
12.52	0.43	0.08	100000000	0.00	0.00	0.00	MathLib::pow(double, double)
10.95	0.50	0.07	40000104	0.00	0.00	0.00	__gnu_cxx::__normal_iterator<long double*, std::vector<long double, std::allocator<long double> > >::__base() const
3.13	0.52	0.02	20000025	0.00	0.00	0.00	long double const& std::forward<long double const&(std::remove_reference<long double const&::type&)
3.13	0.54	0.02	20000000	0.00	0.00	0.00	__gnu_cxx::__normal_iterator<long double*, std::vector<long double, std::allocator<long double> > >::__operator++()
3.13	0.56	0.02	10000000	0.00	0.00	0.00	std::vector<long double, std::allocator<long double> >::push_back(long double const&)
3.13	0.58	0.02	1	20.03	120.55	0.00	average(std::vector<long double, std::allocator<long double> >, long double)
2.35	0.60	0.02	10000000	0.00	0.00	0.00	MathLib::minus(double, double)
1.56	0.61	0.01	20000000	0.00	0.00	0.00	MathLib::sum(double, double)
1.56	0.62	0.01	10000000	0.00	0.00	0.00	void std::allocator_traits<std::allocator<long double> >::construct<long double, long double const&(std::allocator<long double>&, long double*, long double const&)
1.56	0.63	0.01	10000000	0.00	0.00	0.00	std::abs(double)
1.56	0.64	0.01	54	0.19	0.19	0.00	__gnu_cxx::__normal_iterator<long double*, std::vector<long double, std::allocator<long double> > >::__normal_iterator(long double* const&)
0.78	0.64	0.01	1	5.01	5.01	0.00	MathLib::multi(double, double)
0.00	0.64	0.00	20000000	0.00	0.00	0.00	__gnu_cxx::__normal_iterator<long double*, std::vector<long double, std::allocator<long double> > >::__operator*(long double* const&)
0.00	0.64	0.00	10000000	0.00	0.00	0.00	operator new(unsigned long, void*)
0.00	0.64	0.00	151	0.00	0.00	0.00	long double* std::__iter_base<long double*>(long double*)
0.00	0.64	0.00	101	0.00	0.00	0.00	std::vector<long double, std::allocator<long double> >::size() const
0.00	0.64	0.00	76	0.00	0.00	0.00	__gnu_cxx::new_allocator<long double>::max_size() const
0.00	0.64	0.00	53	0.00	0.00	0.00	std::Vector_base<long double, std::allocator<long double> >::__M_get_Tp_allocator()
0.00	0.64	0.00	51	0.00	0.00	0.00	std::Vector_base<long double, std::allocator<long double> >::__M_get_Tp_allocator() const
0.00	0.64	0.00	50	0.00	0.00	0.00	std::vector<long double, std::allocator<long double> >::max_size() const
0.00	0.64	0.00	50	0.00	0.00	0.00	std::allocator_traits<std::allocator<long double> >::max_size(std::allocator<long double> const&)
0.00	0.64	0.00	50	0.00	0.00	0.00	std::vector<long double, std::allocator<long double> >::__S_max_size(std::allocator<long double> const&)
0.00	0.64	0.00	50	0.00	0.00	0.00	std::vector<long double, std::allocator<long double> >::__S_relocate(long double*, long double*, long double*, std::allocator<long double>&)
0.00	0.64	0.00	50	0.00	0.00	0.00	std::vector<long double, std::allocator<long double> >::__S_do_relocate(long double*, long double*, long double*, std::allocator<long double>&, std::integral_constant<bool, true>)
0.00	0.64	0.00	50	0.00	0.00	0.00	long double* std::__relocate_a<long double*, long double*, long double*, long double*, long double*, long double*, long double*, std::allocator<long double>&)
0.00	0.64	0.00	50	0.00	0.00	0.00	std::enable_if<std::is_bitwise_relocatable<long double, void>::value, long double*>::type std::__relocate_a<long double, long double, long double, long double, long double, long double, long double, std::allocator<long double>&)
0.00	0.64	0.00	27	0.00	0.00	0.00	std::Vector_base<long double, std::allocator<long double> >::__M_deallocate(long double*, unsigned long)
0.00	0.64	0.00	27	0.00	0.19	0.19	std::vector<long double, std::allocator<long double> >::end()
0.00	0.64	0.00	27	0.00	0.19	0.19	std::vector<long double, std::allocator<long double> >::begin()
0.00	0.64	0.00	26	0.00	0.00	0.00	__gnu_cxx::new_allocator<long double>::deallocate(long double*, unsigned long)
0.00	0.64	0.00	26	0.00	0.00	0.00	__gnu_cxx::new_allocator<long double>::allocate(unsigned long, void const*)
0.00	0.64	0.00	26	0.00	0.00	0.00	std::Vector_base<long double, std::allocator<long double> >::__M_allocate(unsigned long)
0.00	0.64	0.00	26	0.00	0.00	0.00	std::allocator_traits<std::allocator<long double> >::deallocate(std::allocator<long double>&, long double*, unsigned long)
0.00	0.64	0.00	26	0.00	0.00	0.00	std::allocator_traits<std::allocator<long double> >::allocate(std::allocator<long double>&, unsigned long)
0.00	0.64	0.00	25	0.00	0.00	0.00	__gnu_cxx::__normal_iterator<long double*, std::vector<long double, std::allocator<long double> > >::difference_type __gnu_cxx::operator-(long double*, std::vector<long double, std::allocator<long double> > >::__base() const
0.00	0.64	0.00	25	0.00	0.19	0.19	void std::vector<long double, std::allocator<long double> >::__M_realloc_insert<long double const&(&__gnu_cxx::__normal_iterator<long double*, std::vector<long double, std::allocator<long double> > >::__base() const
0.00	0.64	0.00	3	0.00	0.00	0.00	unsigned long const& std::max<unsigned long, unsigned long const&, unsigned long const&)
0.00	0.64	0.00	3	0.00	0.00	0.00	__gnu_cxx::new_allocator<long double>::new_allocator()
0.00	0.64	0.00	3	0.00	0.00	0.00	std::allocator_traits<std::allocator<long double> >::allocate()
0.00	0.64	0.00	2	0.00	0.00	0.00	__gnu_cxx::new_allocator<long double>::new_allocator(&__gnu_cxx::new_allocator<long double> const&)
0.00	0.64	0.00	2	0.00	0.00	0.00	__gnu_cxx::__normal_iterator<long double const*, std::vector<long double, std::allocator<long double> > >::__normal_iterator(long double const* const&)
0.00	0.64	0.00	2	0.00	0.00	0.00	__gnu_cxx::__normal_iterator<long double const*, std::vector<long double, std::allocator<long double> > >::__base() const
0.00	0.64	0.00	2	0.00	0.00	0.00	std::allocator_traits<std::allocator<long double> >::allocate()