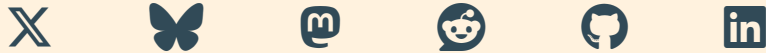


# Boost 1.91.0



April 22, 2026

**119,156** commits up through 1.91.0

**139,053** lines added, **89,237** lines removed

**1,877** new commits in all library repositories

**112** commit contributors, **36** new




**303** issues opened, **295** closed

**507** posts to the developer's mailing list

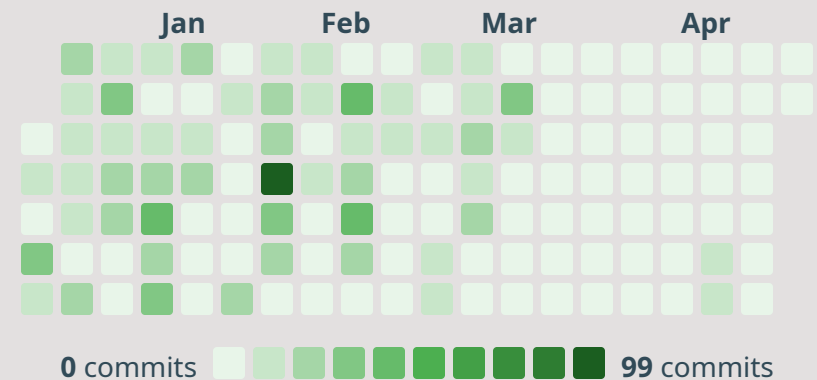
**73** unique mailing list users, **13** new

**1** library added



Download Now!	
 <b>Unix</b>	<a href="#">boost_1_91_0.tar.bz2</a>
	<a href="#">boost_1_91_0.tar.gz</a>
 <b>Windows</b>	<a href="#">boost_1_91_0.7z</a>
	<a href="#">boost_1_91_0.zip</a>
 <b>Windows (Bin)</b>	<a href="#">boost_1_91_0-msvc-14.5-32.exe</a>
	<a href="#">boost_1_91_0-msvc-14.5-64.exe</a>
	<a href="#">To see other windows versions, click here</a>

Commits from December '25 to April '26



# From the Fiscal Sponsorship Committee

The Spring 2026 release of Boost comes with upgrades to 25+ libraries and the new Boost.Decimal, of particular interest to quants and numerical programmers. We've had a small repo reorganization (StaticAssert moved into Config) and there's been some exciting activity related to C++20 modules (LexicalCast) and C++26 reflection (PFR). Take a look at the release notes, experiment with the new features and tell us what you think!

Also, the stream of new libraries continues to flow: Alfredo Correa's Multi library is making strides toward full acceptance sometime this year, and as we write this another official review (boost::container::hub) is being held. It's being a busy and very good year at Boost.



Ion Gaztañaga



Joaquín M López  
Muñoz



René Ferdinand  
Rivera Morell

# Git activity for this release

1,877 Commits Across 157 Repositories

35 First-time Contributors

## Top Contributors

 **Ion Gaztañaga**  
322 commits


 **Peter Dimov**  
319 commits

 **Andrey Semashev**  
169 commits


 **Matt Borland**  
122 commits

 **Rene Rivera**  
121 commits

 **John Maddock**  
73 commits

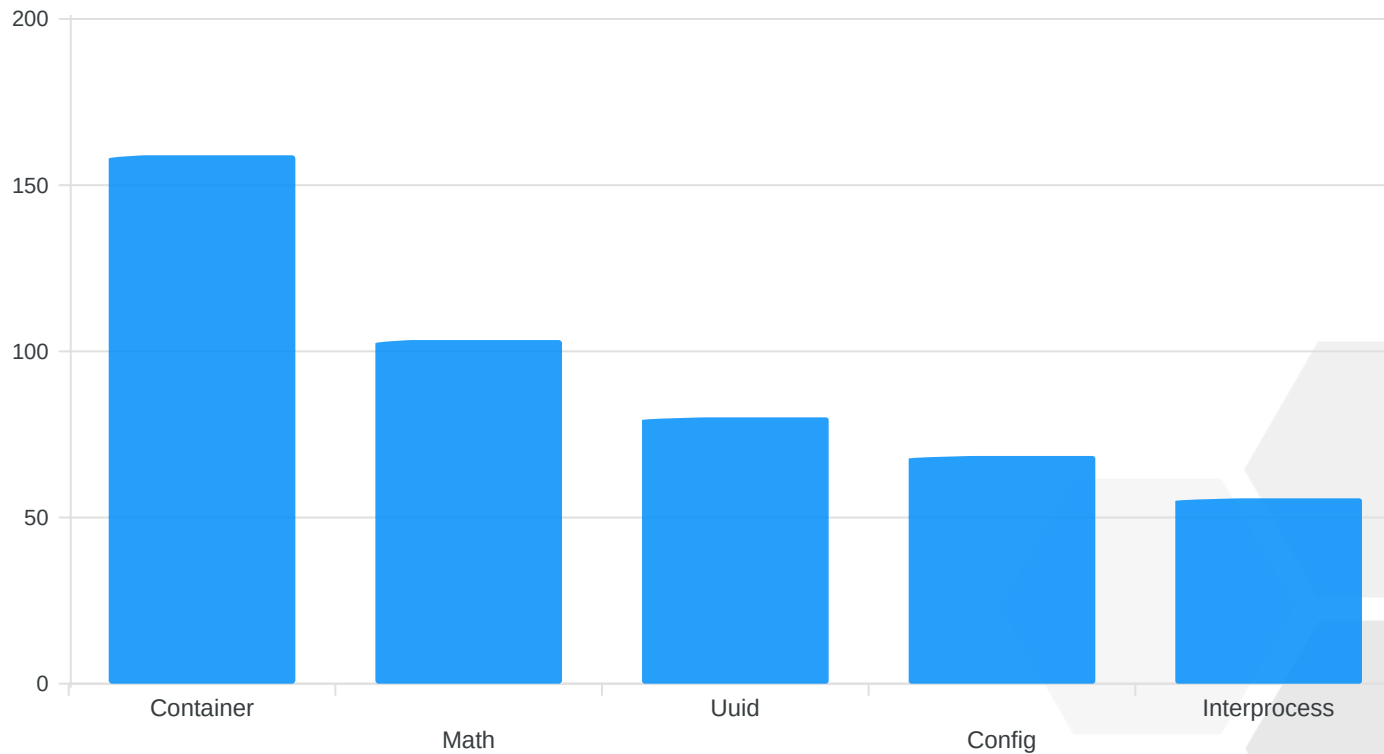
 **Alan de Freitas**  
61 commits

 **ivanpanch**  
42 commits

 **Emil Dotchevski**  
39 commits











 **Jacob Hass**  
38 commits

## Most Committed Libraries



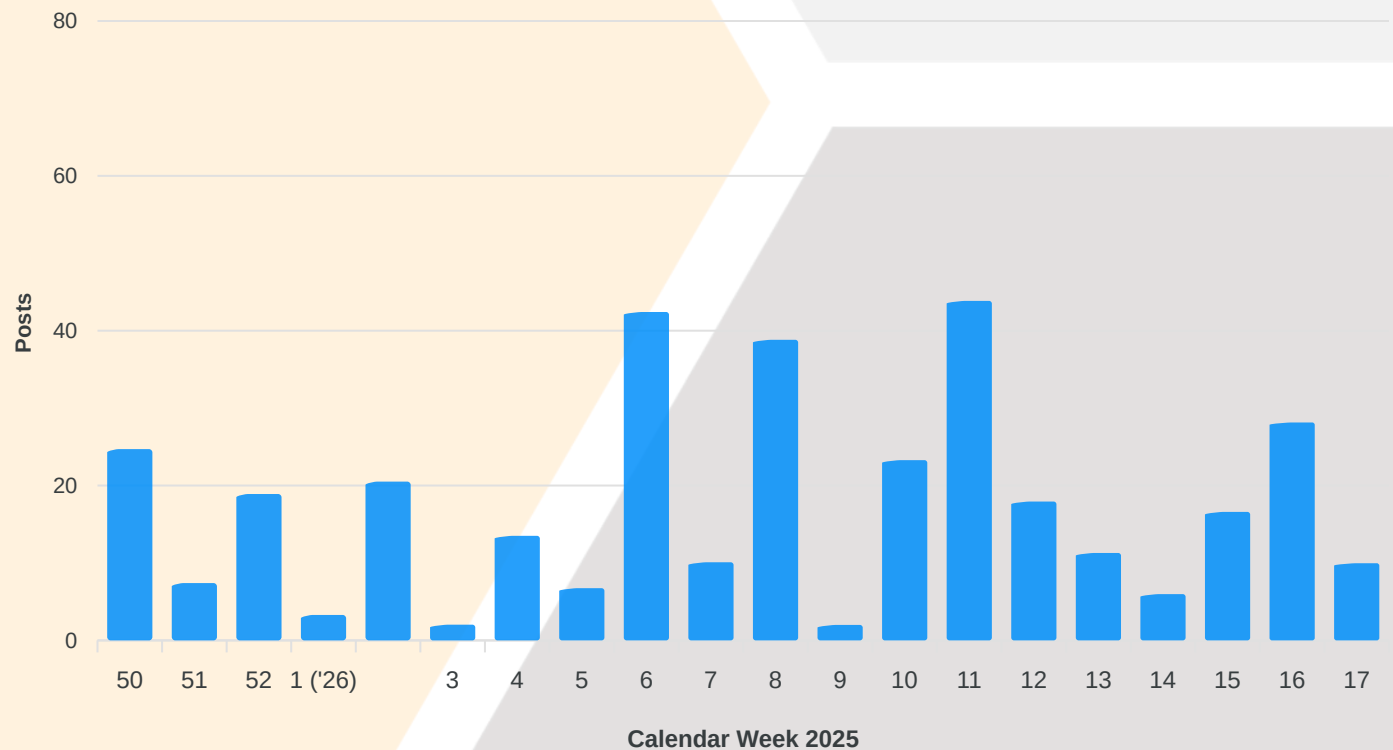
# Mailing List

## Top Contributors

-  **Peter Dimov**  
54 posts
-  **Andrey Semashev**  
44 posts
-  **Vinnie Falco**  
35 posts
-  **Marshall Clow**  
31 posts
-  **Ion Gaztañaga**  
31 posts
-  **Joaquin M. López Muñoz**  
28 posts
-  **Matt Borland**  
26 posts
-  **Rainer Deyke**  
23 posts
-  **Andrzej Krzemieński**  
22 posts
-  **alfC**  
15 posts

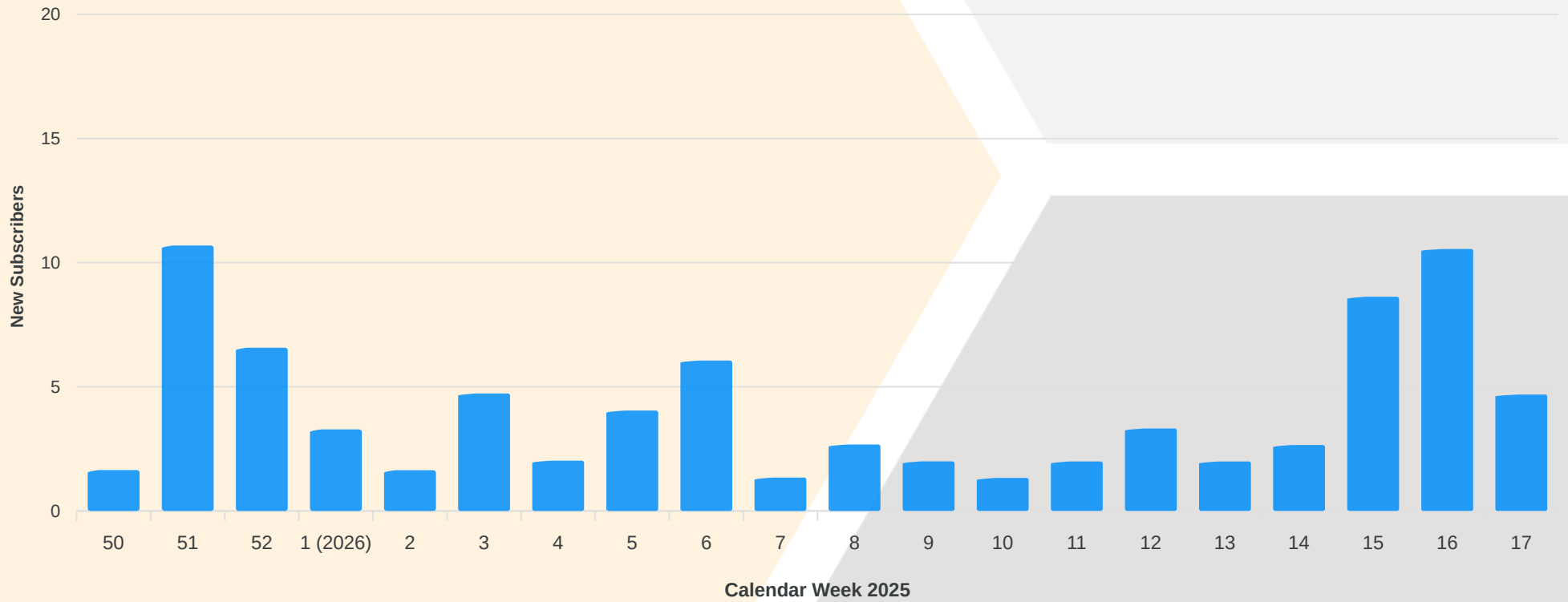
There were **507** mailing list posts in version 1.91.0 and **73** posters in this version. (**13** New)

Weekly mailing list posts from Dec. 10, 2025 to April 22, 2026 on the Boost Developers mailing list.



# Mailing List New Subscribers

Mailing list new subscribers from from Dec. 10, 2025 to April 22, 2026 on the Boost Developers mailing list.



# Mailing List Top 200 Most Frequently Used Words

library	github	now	test	api	link	buffer
wrote	see	enum	still	core	joaquín	probably
array	peter	without	vinnie	add	llm	endorsement
use	hub	boostorg	ion	always	regards	open
via	problem	used	copyright	find	non	static_assert
code	make	include	pm	detail	following	really
coroutine	already	standard	master	look	mean	lópez
std	time	range	please	rather	concept	muñoz
one	return	model	hpp	thing	el	original
type	operator	know	thank	call	deque	blob
review	data	performance	may	evaluation	similar	technical
function	int	different	andrey	possible	result	thread
copy	section	message	algorithm	next	system	sure
org	corosio	hi	support	exception	changes	las
element	well	something	doc	single	write	
list	name	restriction	feb	class	instead	
multi	iterator	want	semashev	size	compiler	
reference	way	end	much	community	might	
libraries	user	ai	error	tutorial	called	
container	string_view	better	generator	gmail	sequence	
will	implementation	handle	issue	output	writing	
work	first	right	two	cygwin	rainer	
using	provide	part	copy	change	main	
think	subarray	thanks	read	access	seems	
documentation	case	even	source	say	try	
need	lists	users	member	elements	take	
example	good	header	matt	version	mar	
release	boost multi	best	question	things	promise	
auto	new	based	operation	many	networking	
asio	point	yes	task	yet	memory	
value	design	html	useful	process	lot	



# Slack Channels

## **#boost**

boost library discussions

## **#boost-asiobook**

Discussion about the "Boost Asio Book," a detailed tutorial and reference for writing concurrent network programs using Boost.Asio: <https://github.com/cppalliance/asio-book> Maintainers: @klemens-morgenstern @exbigboss @fpelliccioni

## **#boost-charconv**

## **#boost-docs**

Talk about Boost documentation development

## **#boost-gsoc**

Boost Google Summer of Code

## **#boost-asio**

## **#boost-beast2**

Related Repositories: <https://github.com/cppalliance/capy>  
<https://github.com/cppalliance/buffers>

## **#boost-decimal**

IEEE 754 Decimal Floating Point in C++14

## **#boost-gil**

Boost GIL (Boost Generic Image Library)

## **#boost-json**

Discussion of Boost.JSON

### **#boost-multi**

Usage and development of the "Multi library", a C++ library to handle multidimensional arrays containers; to be proposed for Boost. current code: <https://github.com/correaa/boost-multi> follow development here: <https://gitlab.com/correaa/boost-multi>

### **#boost-process**

### **#boost-unordered**

Boost.Unordered <https://github.com/boostorg/unordered>  
[https://pdimov.github.io/articles/unordered\\_dev\\_plan.html](https://pdimov.github.io/articles/unordered_dev_plan.html)

### **#boost-website**

Channel dedicated to all things related to the development and enhancement of the Boost website. Share updates, ask questions, and collaborate on best practices for web design and development here. Let's build something amazing together!

### **#boost-packaging**

Chatting about how Boost is packaged and how to improve the packaging story for Boost.

### **#boost-requests**

### **#boost-url**

Boost.URL (not official) <https://github.com/CPAlliance/url>











### **#boost-zlib**

Discussion for development of Boost.ZLib

# #boost-beast2

**18,589** slack messages in #boost-beast2  
**43** people were active for this release. **(25 New)**











## Top Contributors

-  **Vinnie Falco**  
9990 messages
-  **Peter Dimov**  
2658 messages
-  **Steve Gerbino**  
1594 messages
-  **Klemens Morgenstern**  
1083 messages
-  **Mohammad Nejati**  
583 messages
-  **Rubén Pérez Hidalgo**  
533 messages
-  **Mungo Gill**  
489 messages
-  **Amlal El Mahrouss**  
440 messages
-  **Andrzej K.**  
228 messages
-  **Michael Vandeberg**  
224 messages

# #boost

**5,720** slack messages in #boost  
**62** people were active for this release. **(19 New)**











## Top Contributors

-  **Vinnie Falco**  
1010 messages
-  **Peter Dimov**  
981 messages
-  **Amlal El Mahrouss**  
389 messages
-  **Dmitry Arkhipov**  
388 messages
-  **Alfredo Correa**  
327 messages
-  **Joaquín M López Muñoz**  
307 messages
-  **Christian Mazakas**  
261 messages
-  **Raziel Alphadios**  
217 messages
-  **Arnaud Becheler**  
215 messages
-  **René Ferdinand Rivera ...**  
196 messages

# #boost-website

822 slack messages in #boost-website  
17 people were active for this release. (2 New)







## Top Contributors

-  **Sam Darwin**  
160 messages
-  **Rob Beeston**  
132 messages
-  **Vinnie Falco**  
115 messages
-  **Jean-Louis Leroy**  
90 messages
-  **Dave O'Connor**  
67 messages
-  **Peter Dimov**  
60 messages
-  **Amlal El Mahrouss**  
35 messages
-  **Rubén Pérez Hidalgo**  
34 messages
-  **Greg Kaleka**  
27 messages
-  **Dmitry Arkhipov**  
27 messages

# #boost-json

346 slack messages in #boost-json  
6 people were active for this release. (2 New)

## Top Contributors











-  **Dmitry Arkhipov**  
136 messages
-  **Peter Dimov**  
132 messages
-  **Vinnie Falco**  
32 messages
-  **Alfredo Correa**  
31 messages
-  **RoyBellingan**  
11 messages
-  **Emil Dotchevski**  
4 messages

# #boost-url

304 slack messages in #boost-url

10 people were active for this release. (5 New)

## Top Contributors











-  **Alan de Freitas**  
97 messages
-  **Peter Dimov**  
87 messages
-  **Vinnie Falco**  
54 messages
-  **Jan Schultke**  
32 messages
-  **Mohammad Nejati**  
21 messages
-  **Amlal El Mahrouss**  
6 messages
-  **Andrzej K.**  
3 messages
-  **RoyBellingan**  
2 messages
-  **james droog**  
1 message
-  **Dmitry Arkhipov**  
1 message

# #boost-asio

263 slack messages in #boost-asio

24 people were active for this release. (11 New)

## Top Contributors

-  **Rubén Pérez Hidalgo**  
51 messages
-  **Vinnie Falco**  
39 messages
-  **Amlal El Mahrouss**  
34 messages
-  **Finny**  
22 messages
-  **Peter Dimov**  
15 messages
-  **Klemens Morgenstern**  
15 messages
-  **Zachary Lund**  
11 messages
-  **Marcelo Zimbres Silva**  
10 messages
-  **Jakob Stark**  
9 messages
-  **Mohammad Nejati**  
8 messages

# #boost-multi

194 slack messages in #boost-multi  
5 people were active for this release. (2 New)

## Top Contributors



**Alfredo Correa**  
98 messages



**Amlal El Mahrouss**  
59 messages



**Andrzej K.**  
31 messages



**Matt Borland**  
5 messages



**Vinnie Falco**  
1 message

# #boost-unordered

46 slack messages in #boost-unordered  
4 people were active for this release. (1 New)

## Top Contributors



**Peter Dimov**  
27 messages



**Joaquín M López Muñoz**  
10 messages



**Fernando Pelliccioni**  
7 messages



**Vinnie Falco**  
2 messages

# #boost-gil

35 slack messages in #boost-gil

4 people were active for this release. (3 New)

## Top Contributors



**Samuel Debionne**  
15 messages



**Mateusz Łoskot**  
15 messages



**Pranam Lashkari**  
4 messages



**Alfredo Correa**  
1 message

# #boost-charconv

2 slack messages in #boost-charconv

1 person were active for this release. (1 New)

## Top Contributors



**Jan Schultke**  
2 messages



# Boost.Asio

Portable networking and other low-level I/O, including sockets, timers, hostname resolution, socket iostreams, serial ports, file descriptors and Windows HANDLES.

There were **23** commits in release 1.91.0

**3,954** lines added, **1,979** lines removed

There was **1** issue opened and was **1** issue closed

## Top Contributors



**Christopher Kohlhoff**

**23** commits

# Boost.Beast

Portable HTTP, WebSocket, and network operations using only C++11 and Boost.Asio

There were **12** commits in release 1.91.0

**160** lines added, **26** lines removed

There were **2** new contributors for this release!

There were **12** issues opened and were **8** issues closed

## Top Contributors



**Mohammad Nejati**

9 commits



**Andrey Semashev**

1 commit



**Pavel P**

1 commit



**bumpsoo**

1 commit

# Boost.Cobalt

Coroutines. Basic Algorithms & Types

There were **16** commits in release 1.91.0

**76** lines added, **58** lines removed

There was **1** new contributor for this release!

There were **8** issues opened and were **0** issues closed

## Top Contributors



**Klemens Morgenstern**

**13** commits



**dongyaosheng**

**2** commits



**Andrey Semashev**

**1** commit



# Boost.Container

Standard library containers and extensions.

There were **193** commits in release 1.91.0

**16,509** lines added, **5,285** lines removed

There were **7** issues opened and were **7** issues closed

There was **1** dependency added and **0** dependencies removed

## Top Contributors



**Ion Gaztañaga**

**192** commits



**sdarwin**

**1** commit

# Boost.Decimal

An implementation of IEEE754 Decimal Floating Point Numbers.



There were **46** commits in release 1.91.0

**2,266** lines added, **8,637** lines removed

There was **1** new contributor for this release!

There were **36** issues opened and were **45** issues closed

## Top Contributors



**Matt Borland**

**46** commits



# Boost.Geometry

The Boost.Geometry library provides geometric algorithms, primitives and spatial index.

There were **10** commits in release 1.91.0

**435** lines added, **371** lines removed

There were **2** new contributors for this release!

There were **7** issues opened and were **6** issues closed

There were **0** dependencies added and **1** dependency removed

## Top Contributors



**Vissarion Fisikopoulos**

4 commits



**kashish2710**

4 commits



**Yegor Shved**

2 commits

# Boost.Hash2

An extensible hashing framework.

There were **3** commits in release 1.91.0

**22** lines added, **5** lines removed

There was **1** new contributor for this release!

There was **1** issue opened and were **0** issues closed

## Top Contributors



**Peter Dimov**

2 commits



**Andrey Semashev**

1 commit



# Boost.Json

JSON parsing, serialization, and DOM in C++11

There were **13** commits in release 1.91.0

**626** lines added, **257** lines removed

There was **1** new contributor for this release!

There were **7** issues opened and were **9** issues closed

## Top Contributors



**Dmitry**  
11 commits



**sdarwin**  
1 commit



**Leandro Freitas**  
1 commit

# Boost.Math

Boost.Math includes several contributions in the domain of mathematics: Floating Point Utilities, Specific Width Floating Point Types, Mathematical Constants, Statistical Distributions, Special Functions, Root Finding and Function Minimization, Polynomials and Rational Functions, Interpolation, and Numerical Integration and Differentiation. Many of these features are templated to support both built-in, and extended width types (e.g. Boost.Multiprecision)

There were **126** commits in release 1.91.0

**25,939** lines added, **2,880** lines removed

There were **6** new contributors for this release!

There were **11** issues opened and were **8** issues closed

There were **0** dependencies added and **1** dependency removed

## Top Contributors



**Jacob Hass**

38 commits



**Matt Borland**

31 commits



**John Maddock**

26 commits



**Maksym Zhelyeznyakov**

16 commits



**Maksym Zhelyeznyakov**

5 commits



**Christopher Kormanyos**

3 commits



**Moritz Baumann**

2 commits



**Jacob Hass**

2 commits



**Andrey Semashev**

1 commit



**PowellINGL**

1 commit

# Boost.Mqtt5

MQTT5 client library built on top of Boost.Asio.

There were **7** commits in release 1.91.0

**1,559** lines added, **1,108** lines removed

There were **2** new contributors for this release!

There were **5** issues opened and were **3** issues closed

## Top Contributors



**Bruno Iljazovic**

5 commits



**Andrey Semashev**

1 commit



**biljazovic**

1 commit

# Boost.MySQL

MySQL client library built on top of Boost.Asio.

There were **2** commits in release 1.91.0

**5** lines added, **10** lines removed

There was **1** new contributor for this release!

There were **4** issues opened and were **3** issues closed

## Top Contributors



**Andrey Semashev**

1 commit



**Anarthal (Rubén Pérez)**

1 commit



# Boost.OpenMethod

Open-methods are virtual functions that exist outside of classes, as free-standing functions. They make it possible to add polymorphic behavior to existing classes, without modifying them. This implementation supports single and multiple dispatch.



There were **36** commits in release 1.91.0

**1,517** lines added, **292** lines removed

There were **4** new contributors for this release!

There were **8** issues opened and were **7** issues closed

There was **1** dependency added and **0** dependencies removed

## Top Contributors



**Jean-Louis Leroy**

27 commits



**ivanpanch**

7 commits



**sdarwin**

1 commit

# Boost.Parser

A parser combinator library.

There were **18** commits in release 1.91.0

**920** lines added, **92** lines removed

There was **1** new contributor for this release!

There were **8** issues opened and were **8** issues closed

## Top Contributors



**Andreas Buhr**

9 commits



**Zach Laine**

6 commits



**Andreas Buhr**

3 commits

# Boost.Pfr

Basic reflection for user defined types.

There were **8** commits in release 1.91.0

**430** lines added, **177** lines removed

There were **2** new contributors for this release!

There were **0** issues opened and were **0** issues closed

## Top Contributors



**Antony Polukhin**

6 commits



**Andrey Semashev**

1 commit



# Boost.Redis

Redis async client library built on top of Boost.Asio.

There were **46** commits in release 1.91.0

**13,401** lines added, **1,548** lines removed

There were **2** new contributors for this release!

There were **16** issues opened and were **15** issues closed

## Top Contributors



**Anarthal (Rubén Pérez)**

27 commits



**Nikolai Vladimirov**

14 commits



**Marcelo Zimbres**

4 commits



**Andrey Semashev**

1 commit

# Boost.Test

Support for simple program testing, full unit testing, and for program execution monitoring.

There were **15** commits in release 1.91.0

**168** lines added, **13** lines removed

There was **1** new contributor for this release!

There were **6** issues opened and were **5** issues closed

There were **0** dependencies added and **1** dependency removed

## Top Contributors



**Matt Borland**

**13** commits



**Andrey Semashev**

**1** commit



**Mikhail Borisov**

**1** commit



# Boost.Unordered

Unordered associative containers.

There were **20** commits in release 1.91.0

**298** lines added, **136** lines removed

There was **1** new contributor for this release!

There were **6** issues opened and were **8** issues closed

## Top Contributors



**Peter Dimov**

8 commits



**Joaquin M. López Muñoz**

7 commits



**braden**

3 commits



**sdarwin**

1 commit



**Andrey Semashev**

1 commit

# Boost.Url

URL parsing in C++11

There were **62** commits in release 1.91.0

**11,207** lines added, **19,633** lines removed

There were **12** issues opened and were **31** issues closed

## Top Contributors



**Alan de Freitas**

59 commits



**sdarwin**

2 commits



**Vinnie Falco**

1 commit



# Boost.Uuid

A universally unique identifier.

There were **119** commits in release 1.91.0

**4,730** lines added, **738** lines removed

There were **0** issues opened and was **1** issue closed

## Top Contributors



**Peter Dimov**

**84** commits



**Andrey Semashev**

**35** commits

# Boost.Variant2

A never-valueless, strong guarantee implementation of `std::variant`.

There were **20** commits in release 1.91.0

**833** lines added, **311** lines removed

There was **1** new contributor for this release!

There was **1** issue opened and were **2** issues closed

## Top Contributors



**Peter Dimov**  
18 commits



**Vinnie Falco**  
1 commit



**Alan de Freitas**  
1 commit

## Boost.Any

Safe, generic container for single values of different value types.

There were **5** commits in release 1.91.0

**84** lines added, **87** lines removed

There was **1** new contributor for this release!

There was **1** issue opened and were **3** issues closed

### Top Contributors



**Antony Polukhin**

4 commits

## Boost.Bimap

Bidirectional maps library for C++. With Boost.Bimap you can create associative containers in which both types can be used as key.

There were **3** commits in release 1.91.0

**142** lines added, **37** lines removed

There was **1** new contributor for this release!

There were **2** issues opened and were **0** issues closed

There was **1** dependency added and **1** dependency removed

### Top Contributors



**Joaquin M. López Muñoz**

2 commits



**Andrey Semashev**

1 commit

## Boost.CharConv

An implementation of <charconv> in C++11.

There were **9** commits in release 1.91.0

**73** lines added, **13** lines removed

There was **1** new contributor for this release!

There were **0** issues opened and were **0** issues closed

### Top Contributors



**Matt Borland**

**8** commits



**Andrey Semashev**

**1** commit

## Boost.CircularBuffer

A STL compliant container also known as ring or cyclic buffer.

There were **23** commits in release 1.91.0

**846** lines added, **49** lines removed

There were **0** issues opened and were **0** issues closed

There were **0** dependencies added and **1** dependency removed

### Top Contributors



**Peter Dimov**

**12** commits



**Rene Rivera**

**10** commits



**Andrey Semashev**

**1** commit

## Boost.Compat

C++11 implementations of standard components added in later C++ standards.

There were **10** commits in release 1.91.0

**83** lines added, **31** lines removed

There was **1** issue opened and was **1** issue closed

### Top Contributors



**Christian Mazakas**

5 commits



**Peter Dimov**

5 commits

## Boost.ContainerHash

An STL-compatible hash function object that can be extended to hash user defined types.

There were **2** commits in release 1.91.0

**2** lines added, **2** lines removed

There were **0** issues opened and were **0** issues closed

### Top Contributors



**Peter Dimov**

2 commits

## Boost.Context

(C++11) Context switching library.

There were **9** commits in release 1.91.0

**142** lines added, **4** lines removed

There were **4** new contributors for this release!

There were **3** issues opened and was **1** issue closed

### Top Contributors



**Oliver Kowalke**

5 commits



**microcai**

1 commit



**David McFarland**

1 commit



**Vyacheslav Chigrin**

1 commit



**ZT**

1 commit

## Boost.Conversion

Polymorphic casts.

There were **3** commits in release 1.91.0

**18** lines added, **7** lines removed

There was **1** new contributor for this release!

There were **0** issues opened and were **0** issues closed

### Top Contributors



**Antony Polukhin**

2 commits

## Boost.Core

A collection of simple core utilities with minimal dependencies.

There were **14** commits in release 1.91.0

**838** lines added, **33** lines removed

There were **2** issues opened and were **4** issues closed

### Top Contributors



**Peter Dimov**  
11 commits



**Andrey Semashev**  
3 commits

## Boost.Dll

Library for comfortable work with DLL and DSO.

There were **3** commits in release 1.91.0

**93** lines added, **81** lines removed

There was **1** new contributor for this release!

There was **1** issue opened and were **0** issues closed

### Top Contributors



**Antony Polukhin**  
2 commits

## Boost.Describe

A C++14 reflection library.

There were **10** commits in release 1.91.0

**180** lines added, **14** lines removed

There was **1** issue opened and was **1** issue closed

### Top Contributors



**Peter Dimov**  
10 commits

## Boost.DynamicBitset

The `dynamic_bitset` template represents a set of bits. It provides access to the value of individual bits via `operator[]` and provides all of the bitwise operators that one can apply to builtin integers, such as `operator&` and `operator<<`. The number of bits in the set can change at runtime.

There were **4** commits in release 1.91.0

**20** lines added, **12** lines removed

There were **2** new contributors for this release!

There were **3** issues opened and were **2** issues closed

### Top Contributors



**Gennaro Prota**  
2 commits



**Yuriy Chernyshov**  
1 commit



**sehe**  
1 commit

## Boost.Endian

Types and conversion functions for correct byte ordering and more regardless of processor endianness.

There were **4** commits in release 1.91.0

**94** lines added, **68** lines removed

There was **1** new contributor for this release!

There were **0** issues opened and were **0** issues closed

### Top Contributors



**Peter Dimov**

3 commits



**Andrey Semashev**

1 commit

## Boost.Exception

The Boost Exception library supports transporting of arbitrary data in exception objects, and transporting of exceptions between threads.

There were **18** commits in release 1.91.0

**6,299** lines added, **19,749** lines removed

There was **1** new contributor for this release!

There were **0** issues opened and was **1** issue closed

### Top Contributors



**Rene Rivera**

13 commits



**Emil Dotchevski**

4 commits



**Peter Dimov**

1 commit

## Boost.Flyweight

Design pattern to manage large quantities of highly redundant objects.

There was **1** commit in release 1.91.0

**15** lines added, **20** lines removed

There was **1** issue opened and was **1** issue closed

### Top Contributors



**Joaquin M. López Muñoz**

1 commit

## Boost.GraphParallel

The PBGL graph interface and graph components are generic, in the same sense as the Standard Template Library (STL).

There were **21** commits in release 1.91.0

**95** lines added, **86** lines removed

There were **4** new contributors for this release!

There were **0** issues opened and were **0** issues closed

There were **0** dependencies added and **1** dependency removed

### Top Contributors



**Rene Rivera**

9 commits



**Jeremy W. Murphy**

5 commits



**Peter Dimov**

3 commits



**Andrey Semashev**

2 commits



**Jakob Gahde**

1 commit



**akovalev**

1 commit

## Boost.Heap

Priority queue data structures.

There were **15** commits in release 1.91.0

**1,212** lines added, **368** lines removed

There were **0** issues opened and were **4** issues closed

There were **0** dependencies added and **1** dependency removed

## Boost.Interprocess

Shared memory, memory mapped files, process-shared mutexes, condition variables, containers and allocators.

There were **84** commits in release 1.91.0

**3,793** lines added, **1,721** lines removed

There were **4** issues opened and were **22** issues closed

### Top Contributors



**Tim Blechmann**

**14** commits



**Andrey Semashev**

**1** commit

### Top Contributors



**Ion Gaztañaga**

**84** commits

## Boost.Interval

Extends the usual arithmetic functions to mathematical intervals.

There were **2** commits in release 1.91.0

**213** lines added, **446** lines removed

There was **1** new contributor for this release!

There were **0** issues opened and were **0** issues closed

### Top Contributors



**James E. King III**

1 commit



**Andrey Semashev**

1 commit

## Boost.Iterator

The Boost Iterator Library contains two parts. The first is a system of concepts which extend the C++ standard iterator requirements. The second is a framework of components for building iterators based on these extended concepts and includes several useful iterator adaptors.

There was **1** commit in release 1.91.0

**1** line added, **1** line removed

There were **0** issues opened and were **0** issues closed

### Top Contributors



**Andrey Semashev**

1 commit

## Boost.Leaf

A lightweight error handling library for C++11.

There were **28** commits in release 1.91.0

**5,340** lines added, **2,488** lines removed

There were **2** issues opened and were **2** issues closed

### Top Contributors



**Emil Dotchevski**

**28** commits

## Boost.Lambda2

A C++14 lambda library.

There were **2** commits in release 1.91.0

**18** lines added, **7** lines removed

There were **0** issues opened and were **0** issues closed

### Top Contributors



**Peter Dimov**

**2** commits

## Boost.LexicalCast

General literal text conversions, such as an int represented a string, or vice-versa.

There were **6** commits in release 1.91.0

**495** lines added, **83** lines removed

There were **2** new contributors for this release!

There were **0** issues opened and were **0** issues closed

### Top Contributors



**Antony Polukhin**

4 commits



**Andrey Semashev**

1 commit

## Boost.Locale

Provide localization and Unicode handling tools for C++.

There were **6** commits in release 1.91.0

**33** lines added, **27** lines removed

There was **1** issue opened and was **1** issue closed

### Top Contributors



**Alexander Grund**

6 commits

# Boost.Lockfree

Lockfree data structures.

There were **10** commits in release 1.91.0

**866** lines added, **89** lines removed

There was **1** new contributor for this release!

There was **1** issue opened and was **1** issue closed

There were **0** dependencies added and **1** dependency removed

## Top Contributors



**Tim Blechmann**

9 commits



**Andrey Semashev**

1 commit

# Boost.Log

Logging library.

There were **7** commits in release 1.91.0

**17** lines added, **23** lines removed

There was **1** issue opened and was **1** issue closed

## Top Contributors



**Andrey Semashev**

7 commits

# Boost.MetaStateMachine

A very high-performance library for expressive UML2 finite state machines.

There were **32** commits in release 1.91.0

**8,065** lines added, **4,906** lines removed

There were **14** issues opened and were **13** issues closed

## Top Contributors



**Christian Granzin**

**28** commits

# Boost.Mp11

A C++11 metaprogramming library.

There were **4** commits in release 1.91.0

**18** lines added, **13** lines removed

There was **1** new contributor for this release!

There were **0** issues opened and were **0** issues closed

## Top Contributors



**Peter Dimov**

**3** commits



**Andrey Semashev**

**1** commit

## Boost.MultiArray

Boost.MultiArray provides a generic N-dimensional array concept definition and common implementations of that interface.

There were **16** commits in release 1.91.0

**93** lines added, **60** lines removed

There were **3** new contributors for this release!

There were **0** issues opened and was **1** issue closed

There were **0** dependencies added and **1** dependency removed

### Top Contributors



**ivanpanch**

8 commits



**Andrey Semashev**

4 commits



**Marshall Clow**

2 commits



**Rene Rivera**

1 commit



**rlop@gmx.de**

1 commit

## Boost.MultiIndex

The Boost Multi-index Containers Library provides a class template named `multi_index_container` which enables the construction of containers maintaining one or more indices with different sorting and access semantics.

There were **6** commits in release 1.91.0

**2,304** lines added, **4,135** lines removed

There were **2** issues opened and were **0** issues closed

There was **1** dependency added and **4** dependencies removed

### Top Contributors



**Joaquin M. López Muñoz**

5 commits



**Andrey Semashev**

1 commit

## Boost.Multiprecision

Extended precision arithmetic types for floating point, integer, and rational arithmetic.

There were **9** commits in release 1.91.0

**114** lines added, **44** lines removed

There were **3** issues opened and were **5** issues closed

### Top Contributors



**Christopher Kormanyos**

**8** commits



**Matt Borland**

**1** commit

## Boost.Nowide

Standard library functions with UTF-8 API on Windows.

There were **24** commits in release 1.91.0

**139** lines added, **44** lines removed

There were **2** issues opened and were **2** issues closed

### Top Contributors



**Alexander Grund**

**24** commits



## Boost.Odeint

Solving ordinary differential equations.

There were **20** commits in release 1.91.0

**42** lines added, **299** lines removed

There were **2** new contributors for this release!

There were **0** issues opened and were **0** issues closed

There were **0** dependencies added and **1** dependency removed

### Top Contributors



**Matt Borland**

**15** commits



**Richard Thomson**

**4** commits



**Andrey Semashev**

**1** commit

## Boost.Outcome

A deterministic failure handling library partially simulating lightweight exceptions.

There were **29** commits in release 1.91.0

**1,757** lines added, **1,036** lines removed

There were **0** issues opened and were **0** issues closed

### Top Contributors



**Niall Douglas**

**26** commits

## Boost.Parameter

Boost.Parameter Library - Write functions that accept arguments by name.

There was **1** commit in release 1.91.0

**3** lines added, **3** lines removed

There was **1** issue opened and was **1** issue closed

### Top Contributors



**Andrey Semashev**

1 commit

## Boost.PointerContainer

Containers for storing heap-allocated polymorphic objects to ease OO-programming.

There was **1** commit in release 1.91.0

**0** lines added, **2** lines removed

There were **0** issues opened and were **0** issues closed

There were **0** dependencies added and **1** dependency removed

### Top Contributors



**Andrey Semashev**

1 commit

## Boost.Process

Library to create processes in a portable way.

There were **3** commits in release 1.91.0

**21** lines added, **19** lines removed

There were **10** issues opened and were **3** issues closed

### Top Contributors



**Klemens Morgenstern**

**3** commits

## Boost.ProgramOptions

The program\_options library allows program developers to obtain program options, that is (name, value) pairs from the user, via conventional methods such as command line and config file.

There was **1** commit in release 1.91.0

**11** lines added, **1** line removed

There were **3** issues opened and were **6** issues closed

There were **0** dependencies added and **1** dependency removed

### Top Contributors



**Vladimir Prus**

**1** commit

## Boost.PropertyMap

Concepts defining interfaces which map key objects to value objects.

There were **2** commits in release 1.91.0

**20** lines added, **411** lines removed

There were **0** issues opened and were **0** issues closed

There were **0** dependencies added and **1** dependency removed

## Boost.PropertyMap(Parallel)

Parallel extensions to Property Map for use with Parallel Graph.

There were **9** commits in release 1.91.0

**33** lines added, **1** line removed

There were **2** new contributors for this release!

There were **0** issues opened and were **0** issues closed

There were **0** dependencies added and **1** dependency removed

### Top Contributors



**James E. King III**

1 commit



**Andrey Semashev**

1 commit

### Top Contributors



**Rene Rivera**

6 commits



**Peter Dimov**

2 commits



**Andrey Semashev**

1 commit

## Boost.PropertyTree

A tree data structure especially suited to storing configuration data.

There were **11** commits in release 1.91.0

**34** lines added, **36** lines removed

There was **1** new contributor for this release!

There were **0** issues opened and were **0** issues closed

There were **0** dependencies added and **1** dependency removed

### Top Contributors



**ivanpanch**

8 commits



**Andrey Semashev**

3 commits

## Boost.Qvm

Generic C++ library for working with Quaternions Vectors and Matrices.

There were **21** commits in release 1.91.0

**936** lines added, **840** lines removed

There were **2** new contributors for this release!

There were **0** issues opened and was **1** issue closed

### Top Contributors



**Rene Rivera**

13 commits



**Emil Dotchevski**

6 commits



**Peter Dimov**

1 commit



**Joshua Nelson**

1 commit

## Boost.Random

A complete system for random number generation.

There were **9** commits in release 1.91.0

**30** lines added, **8** lines removed

There was **1** new contributor for this release!

There were **0** issues opened and were **0** issues closed

There were **0** dependencies added and **1** dependency removed

### Top Contributors



**Matt Borland**

**8** commits



**Andrey Semashev**

**1** commit

## Boost.Rational

A rational number class.

There were **3** commits in release 1.91.0

**47** lines added, **413** lines removed

There were **2** new contributors for this release!

There were **0** issues opened and were **0** issues closed

There were **0** dependencies added and **1** dependency removed

### Top Contributors



**James E. King III**

**1** commit



**Andrey Semashev**

**1** commit



**Philip Savoulidis**

**1** commit

## Boost.Scope

A collection of scope guards and a `unique_resource` wrapper.

There was **1** commit in release 1.91.0

**3** lines added, **3** lines removed

There were **0** issues opened and were **0** issues closed

### Top Contributors



**Andrey Semashev**

1 commit

## Boost.Signals2

Managed signals & slots callback implementation (thread-safe version 2).

There were **7** commits in release 1.91.0

**92** lines added, **7** lines removed

There was **1** new contributor for this release!

There were **0** issues opened and were **0** issues closed

### Top Contributors



**Frank Mori Hess**

4 commits



**sdarwin**

1 commit



**Andrey Semashev**

1 commit



**Cory Fields**

1 commit

## Boost.SmartPtr

Smart pointer class templates.

There were **3** commits in release 1.91.0

**17** lines added, **22** lines removed

There were **0** issues opened and were **0** issues closed

## Boost.Sort

High-performance templated sort functions.

There were **6** commits in release 1.91.0

**0** lines added, **65** lines removed

There was **1** new contributor for this release!

There were **0** issues opened and were **0** issues closed

There were **0** dependencies added and **1** dependency removed

### Top Contributors



**Peter Dimov**

2 commits



**Andrey Semashev**

1 commit

### Top Contributors



**spreadsort**

4 commits



**Andrey Semashev**

1 commit



**Nigel Stewart**

1 commit

# Boost.Stacktrace

Gather, store, copy and print backtraces.

There were **7** commits in release 1.91.0

**174** lines added, **109** lines removed

There were **2** new contributors for this release!

There were **2** issues opened and were **2** issues closed

## Top Contributors



**Antony Polukhin**

5 commits



**David McFarland**

1 commit

# Boost.System

Extensible error reporting.

There were **42** commits in release 1.91.0

**2,764** lines added, **314** lines removed

There was **1** new contributor for this release!

There were **7** issues opened and were **4** issues closed

There were **2** dependencies added and **0** dependencies removed

## Top Contributors



**Peter Dimov**

40 commits



**Andrey Semashev**

1 commit



**David McFarland**

1 commit

## Boost.Thread

Portable C++ multi-threading. C++11, C++14, C++17.

There were **20** commits in release 1.91.0

**584** lines added, **493** lines removed

There were **4** new contributors for this release!

There were **2** issues opened and were **2** issues closed

There were **0** dependencies added and **1** dependency removed

### Top Contributors



**Andrey Semashev**

16 commits



**Giovanni Mascellani**

1 commit



**Yuriy Chernyshov**

1 commit



**Ezekiel Warren**

1 commit



**Marcus Better**

1 commit

## Boost.ThrowException

A common infrastructure for throwing exceptions from Boost libraries.

There was **1** commit in release 1.91.0

**6** lines added, **0** lines removed

There were **0** issues opened and were **0** issues closed

### Top Contributors



**Emil Dotchevski**

1 commit

## Boost.TypeIndex

Runtime/Compile time copyable type info.

There were **6** commits in release 1.91.0

**267** lines added, **157** lines removed

There was **1** new contributor for this release!

There was **1** issue opened and was **1** issue closed

### Top Contributors



**Antony Polukhin**

5 commits

## Boost.TypeTraits

Templates for fundamental properties of types.

There were **3** commits in release 1.91.0

**1** line added, **2** lines removed

There were **0** issues opened and were **0** issues closed

There were **0** dependencies added and **1** dependency removed

### Top Contributors



**Peter Dimov**

2 commits



**Andrey Semashev**

1 commit

# Boost.Algorithm

A collection of useful generic algorithms.

There were **28** commits in release 1.91.0

**158** lines added, **88** lines removed

There were **4** new contributors for this release!

There were **0** issues opened and were **0** issues closed

There were **0** dependencies added and **1** dependency removed

## Top Contributors



**Rene Rivera**

11 commits



**Marshall Clow**

8 commits



**glywk**

3 commits



**James E. King III**

1 commit



**Alexandre Hamez**

1 commit



**Andrey Semashev**

1 commit



**Yuriy Chernyshov**

1 commit



**jiyuehua**

1 commit



**Alexander Grund**

1 commit

# Boost.Gil

(C++14) Generic Image Library











There were **61** commits in release 1.91.0

**317** lines added, **92** lines removed

There were **3** new contributors for this release!

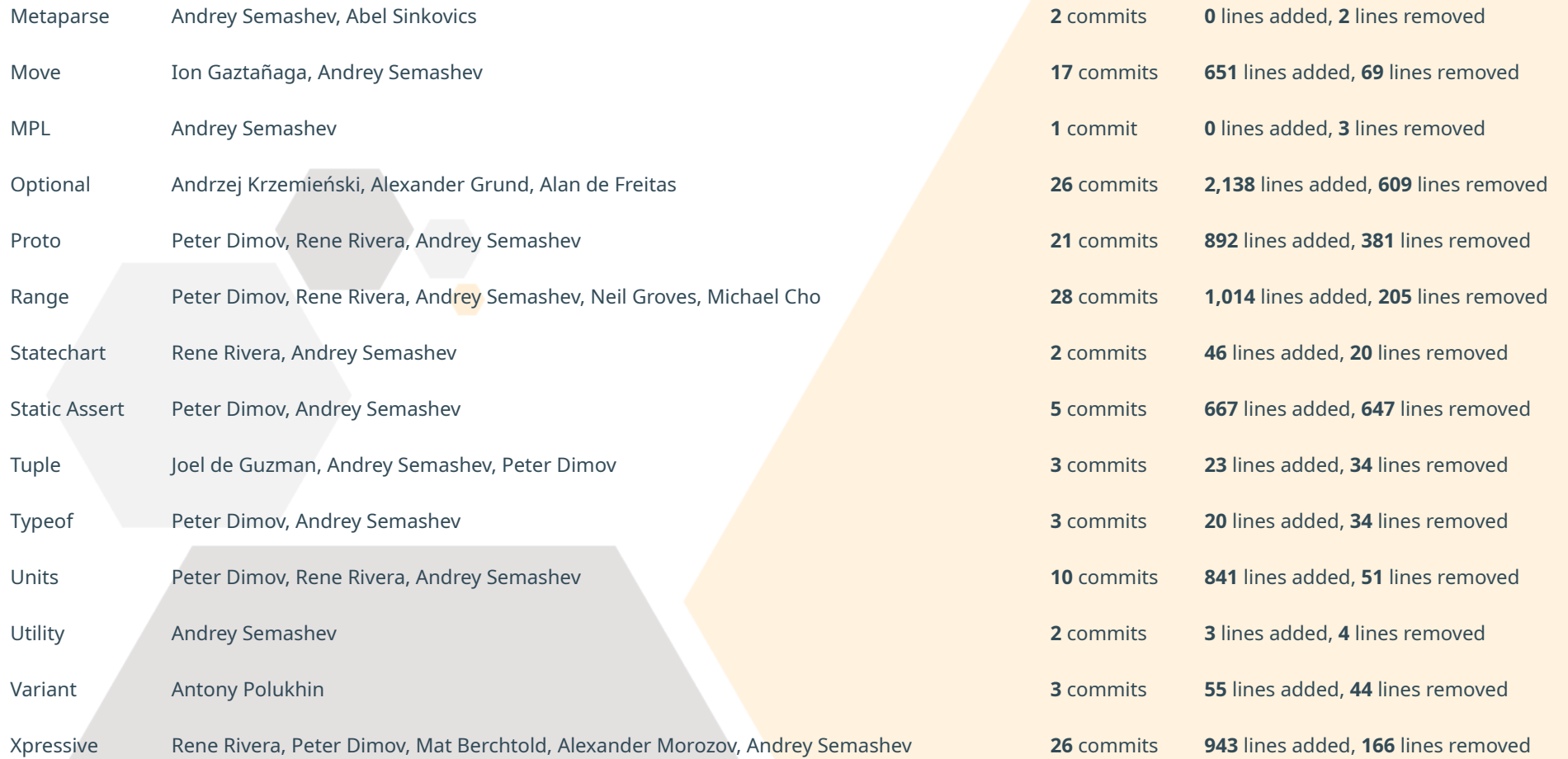
There were **0** issues opened and was **1** issue closed

## Top Contributors

-  **ivanpanch**  
19 commits
-  **Mateusz Łoskot**  
15 commits
-  **Samuel Debione**  
9 commits
-  **Dirk Stolle**  
8 commits
-  **Alexander Grund**  
2 commits
-  **Processor228**  
2 commits
-  **Amsakan Bavan**  
1 commit
-  **sdarwin**  
1 commit
-  **Christopher Kormanyos**  
1 commit
-  **Andrey Semashev**  
1 commit

# Other Updated Libraries

Accumulators	Peter Dimov, Andrey Semashev	7 commits	<b>563</b> lines added, <b>150</b> lines removed
Align	Peter Dimov, Rene Rivera, Andrey Semashev	7 commits	<b>625</b> lines added, <b>65</b> lines removed
Array	Peter Dimov, Andrey Semashev	5 commits	<b>123</b> lines added, <b>83</b> lines removed
Assert	Peter Dimov, Andrey Semashev	5 commits	<b>56</b> lines added, <b>29</b> lines removed
Assign	Andrey Semashev, James E. King III	5 commits	<b>256</b> lines added, <b>645</b> lines removed
Atomic	Andrey Semashev, Sergey Fedorov	4 commits	<b>13</b> lines added, <b>5</b> lines removed
Bind	Peter Dimov, bmagistro	7 commits	<b>59</b> lines added, <b>85</b> lines removed
Chrono	Andrey Semashev, Peter Dimov	4 commits	<b>56</b> lines added, <b>60</b> lines removed
Compute	Rene Rivera, Peter Dimov, Andrey Semashev	14 commits	<b>49</b> lines added, <b>1</b> line removed
Concept Check	James E. King III, Andrey Semashev	2 commits	<b>21</b> lines added, <b>429</b> lines removed
Config	John Maddock, Peter Dimov, Andrey Semashev, Beman Dawes, Daniel James, Rene Rivera, Douglas Gregor, Marshall Clow, Jens Maurer, Mathias Gaunard	103 commits	<b>1,970</b> lines added, <b>427</b> lines removed
Convert	Rene Rivera, Peter Dimov, Vladimir Batov	13 commits	<b>734</b> lines added, <b>396</b> lines removed
Detail	Andrey Semashev	2 commits	<b>3</b> lines added, <b>5</b> lines removed
Filesystem	Andrey Semashev, Brandl, Matthäus (MBR)	20 commits	<b>950</b> lines added, <b>501</b> lines removed
Function	Peter Dimov, Andrey Semashev	4 commits	<b>92</b> lines added, <b>65</b> lines removed
Function Types	Peter Dimov, Dmitry	4 commits	<b>103</b> lines added, <b>269</b> lines removed
Fusion	Rene Rivera, Andrey Semashev, Kirill Ignatev, IncludeGuardian, Marshall Clow	5 commits	<b>726</b> lines added, <b>696</b> lines removed
Integer	Andrey Semashev	2 commits	<b>3</b> lines added, <b>5</b> lines removed
Intrusive	Ion Gaztañaga, Nikita Kolotov	32 commits	<b>1,240</b> lines added, <b>325</b> lines removed
Iostreams	Andrey Semashev	2 commits	<b>1</b> line added, <b>2</b> lines removed



Metaparse	Andrey Semashev, Abel Sinkovics	2 commits	0 lines added, 2 lines removed
Move	Ion Gaztañaga, Andrey Semashev	17 commits	651 lines added, 69 lines removed
MPL	Andrey Semashev	1 commit	0 lines added, 3 lines removed
Optional	Andrzej Krzemieński, Alexander Grund, Alan de Freitas	26 commits	2,138 lines added, 609 lines removed
Proto	Peter Dimov, Rene Rivera, Andrey Semashev	21 commits	892 lines added, 381 lines removed
Range	Peter Dimov, Rene Rivera, Andrey Semashev, Neil Groves, Michael Cho	28 commits	1,014 lines added, 205 lines removed
Statechart	Rene Rivera, Andrey Semashev	2 commits	46 lines added, 20 lines removed
Static Assert	Peter Dimov, Andrey Semashev	5 commits	667 lines added, 647 lines removed
Tuple	Joel de Guzman, Andrey Semashev, Peter Dimov	3 commits	23 lines added, 34 lines removed
Typeof	Peter Dimov, Andrey Semashev	3 commits	20 lines added, 34 lines removed
Units	Peter Dimov, Rene Rivera, Andrey Semashev	10 commits	841 lines added, 51 lines removed
Utility	Andrey Semashev	2 commits	3 lines added, 4 lines removed
Variant	Antony Polukhin	3 commits	55 lines added, 44 lines removed
Xpressive	Rene Rivera, Peter Dimov, Mat Berchtold, Alexander Morozov, Andrey Semashev	26 commits	943 lines added, 166 lines removed

# Libraries Not Updated

## Flagship

Bloom  
Regex

## Core

CallableTraits  
Coroutine2  
CRC  
Fiber  
Graph  
Hana  
Histogram  
HOF  
ICL  
IO  
MPI  
PolyCollection  
Polygon  
Predef  
Preprocessor  
Python  
Safe Numerics  
Serialization  
Spirit  
Static String  
Stl\_interfaces

Type Erasure

WinAPI

YAP

## Other

Contract  
Coroutine  
Date Time  
Foreach  
Format  
Functional  
Lambda  
Local Function  
Numeric Conversion  
Parameter Python Bindings  
Phoenix  
Pool  
Ratio  
Scope Exit  
Timer  
Tokenizer  
Tribool  
TTI  
uBLAS  
VMD  
Wave