

# Boost 1.90.0



Dec. 10, 2025

**117,279** commits up through 1.90.0

**198,954** lines added, **138,479** lines removed

**1,717** new commits in all library repositories

**107** commit contributors, **39** new




**352** issues opened, **284** closed

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

**101** unique mailing list users, **27** new

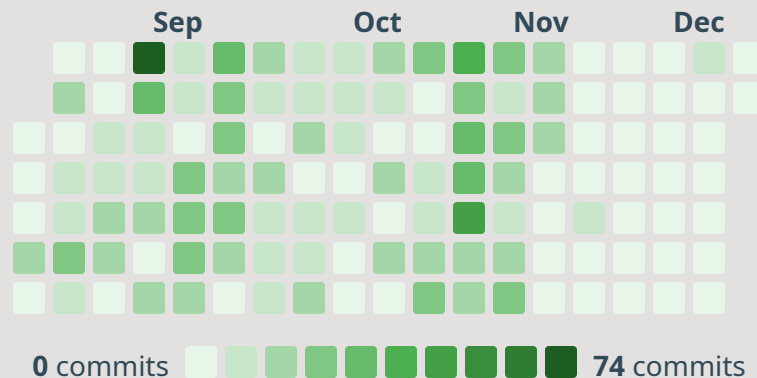
**1** library added

## Download Now!

 <b>Unix</b>	<a href="#">boost_1_90_0.tar.gz</a>
	<a href="#">boost_1_90_0.tar.bz2</a>
 <b>Windows</b>	<a href="#">boost_1_90_0.7z</a>
	<a href="#">boost_1_90_0.zip</a>
 <b>Windows (Bin)</b>	<a href="#">boost_1_90_0-msvc-14.3-32.exe</a>
	<a href="#">boost_1_90_0-msvc-14.3-64.exe</a>
	<a href="#">boost_1_90_0-msvc-14.2-32.exe</a>
	<a href="#">boost_1_90_0-msvc-14.2-64.exe</a>
	<a href="#">boost_1_90_0-bin-msvc-all-32-64.7z</a>
	<a href="#">boost_1_90_0-msvc-14.1-64.exe</a>
	<a href="#">boost_1_90_0-msvc-14.1-32.exe</a>



Commits from August '25 to December '25



# From the Fiscal Sponsorship Committee

We have a new library in Boost 1.90 (OpenMethod) and updates to 30+ more. Some classic libraries like Container and DynamicBitset have undergone some serious modernization and, in general, there are plenty of fixes and new functionalities large and small. Please take a moment to peruse this report and tell us which changes you're most excited about, or what aspects of the project evolution, and of the report itself, you'd like to see improved. The new year begins with a new library ready to be launched next quarter, lots of ideas in the making, and a sincere hope that Boost will continue to help C++ programmers be more productive and have fun at their job. We count on your help to make all this happen.



Ion Gaztanaga



Joaquín M López  
Muñoz













René Ferdinand  
Rivera Morell

# Git activity for this release

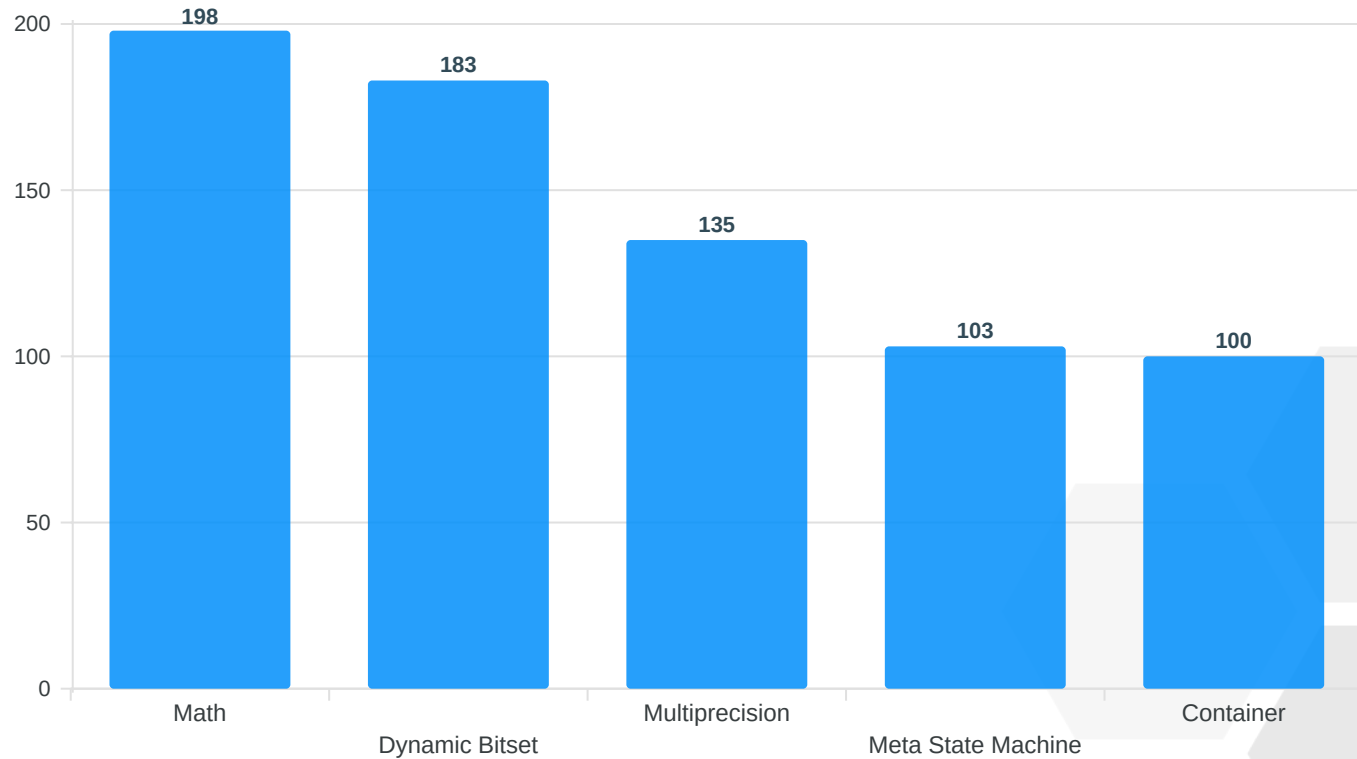
**1,717** Commits Across **156** Repositories

**39** First-time Contributors

## Top Contributors

	<b>Gennaro Prota</b> 187 commits
	<b>Peter Dimov</b> 185 commits
	<b>Christopher Kormanyos</b> 160 commits
	<b>Ion Gaztañaga</b> 126 commits
	<b>Alexander Grund</b> 125 commits
	<b>Matt Borland</b> 111 commits
	<b>Christian Granzin</b> 86 commits
	<b>Maksym Zhelyeznyakov</b> 83 commits
	<b>Nana Sakisaka</b> 75 commits
	<b>ivanpanch</b> 59 commits

## Most Committed Libraries



# Mailing List

## Top Contributors



**Vinnie Falco**  
92 posts



**Andrey Semashev**  
78 posts



**Peter Dimov**  
71 posts



**Matt Borland**  
51 posts



**Marshall Clow**  
39 posts



**Andrzej Krzemiński**  
35 posts



**Ion Gaztañaga**  
35 posts



**Christian Mazakas**  
28 posts



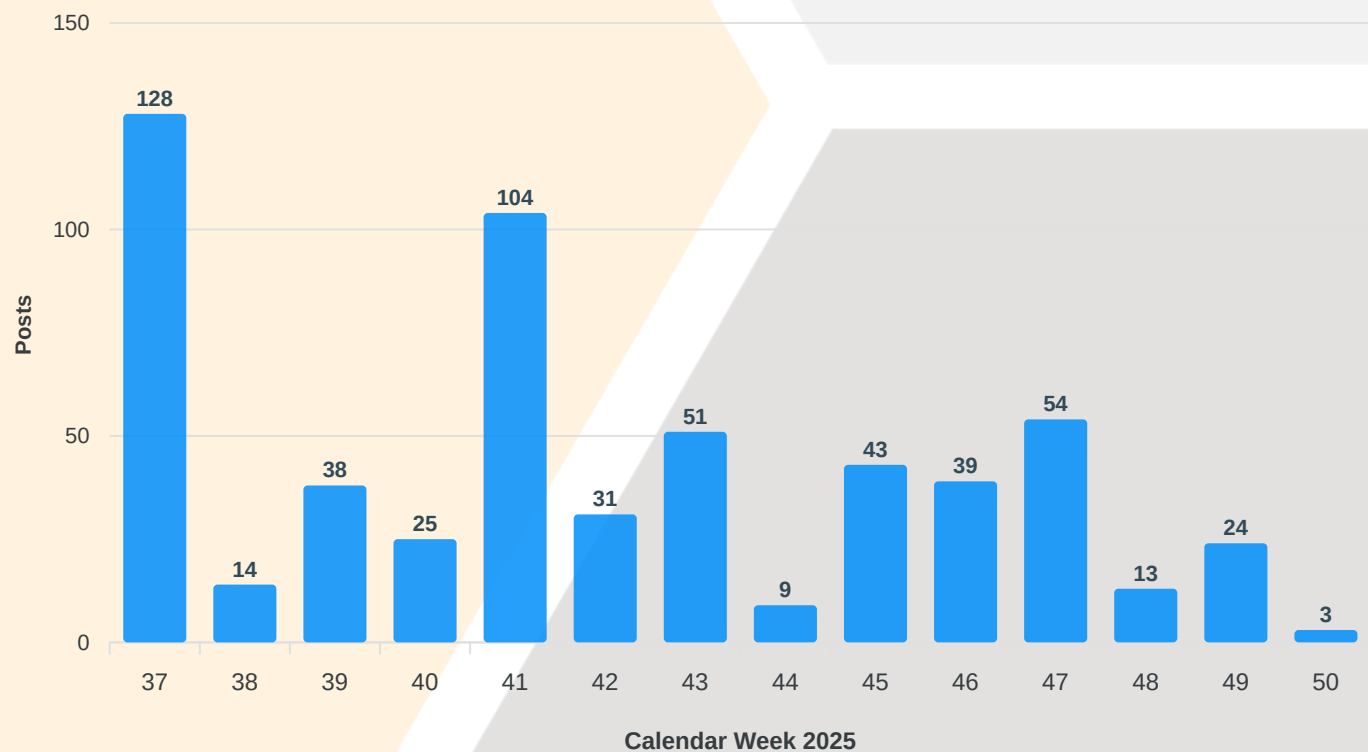
**Klemens Morgenstern**  
27 posts



**Mohammad Nejati**  
26 posts

There were **924** mailing list posts in version 1.90.0 and **101** posters in this version. (27 New)

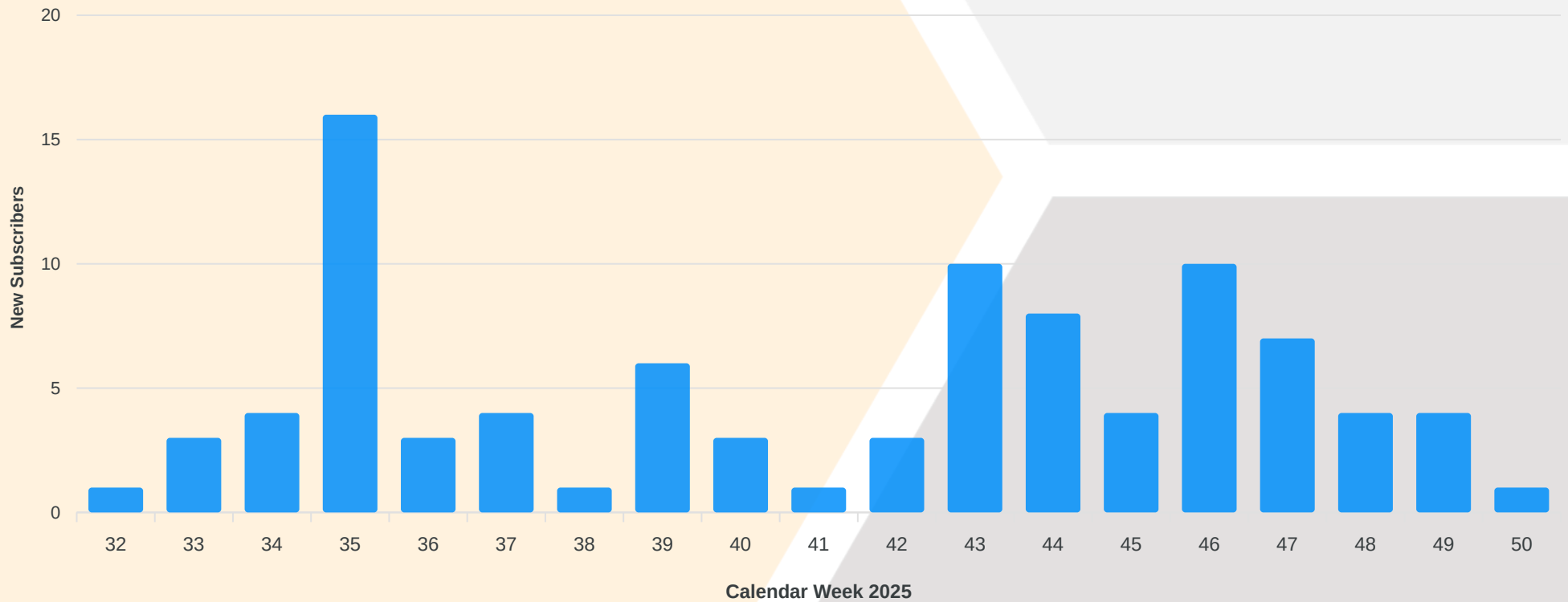
Weekly mailing list posts from Aug. 6, 2025 to Dec. 10, 2025 on the Boost Developers mailing list.





# Mailing List New Subscribers

Mailing list new subscribers from from Aug. 6, 2025 to Dec. 10, 2025 on the Boost Developers mailing list.



# Mailing List Top 200 Most Frequently Used Words

list	statement	core	much	compile	take	author
wrote	new	first	doc	find	always	pull
via	string	chris	source	link	exception	thu
library	see	know	cmake	possible	pr	oct
org	now	better	still	commit	include	system
use	function	want	bit	spirit	go	reference
std	work	build	open	config	prota	part
sqlite	way	problem	might	actually	things	christian
type	users	standard	header	archived	file	anything
one	sep	matt	text	thank	marshall	option
review	support	best	design	semashev	current	bug
think	mailing	issue	leave	return	reason	tue
github	boostorg	instead	seems	thing	long	try
release	version	api	yes	const	branch	either
libraries	used	email	result	feature	behavior	
documentation	even	error	size	based	sure	
code	message	already	non	klemens	everyone	
time	resultset	hpp	provide	unsubscribe	libs	
using	connection	different	master	fork	around	
asio	case	without	probably	right	macro	
will	people	changes	andrey	well	wrapper	
need	archives	hi	format	following	available	
string_view	make	transaction	many	add	beta	
example	issues	class	interface	json	iterator	
lists	implementation	may	auto	develop	sqlite3	
pm	change	container	project	gmail	good	
user	peter	maybe	name	docs	static_assert	
value	thanks	something	operator	done	conversion	
vinnie	point	regards	end	useful	object	
test	two	html	send	idea	execute	
decimal	aug	please	mailman3	template	avoid	

# Mailing List Word Cloud



# 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/CPPALliance/url>

### **#boost-zlib**

Discussion for development of Boost.ZLib

# #boost-beast2

12,271 slack messages in #boost-beast2

24 people were active for this release. (21 New)

## Top Contributors



Vinnie Falco  
7020 messages



Mohammad Nejati  
2311 messages



Amlal El Mahrouss  
874 messages



Peter Dimov  
797 messages



Mungo Gill  
534 messages



Rubén Pérez Hidalgo  
205 messages



Alan de Freitas  
136 messages



RoyBellingan  
100 messages



Dmitry Arkhipov  
68 messages



Ian Torres  
48 messages

# #boost

5,843 slack messages in #boost

69 people were active for this release. (54 New)

## Top Contributors



Peter Dimov  
1054 messages



Vinnie Falco  
852 messages



Christian Mazakas  
515 messages



Dmitry Arkhipov  
490 messages



Arnaud Becheler  
272 messages



Joaquín M López Muñoz  
264 messages



Amlal El Mahrouss  
216 messages



René Ferdinand Rivera ...  
165 messages



Janko  
163 messages













Alexander Grund  
147 messages

# #boost-website

**1,683** slack messages in #boost-website  
**22** people were active for this release. **(17 New)**











## Top Contributors

-  **Vinnie Falco**  
499 messages
-  **Sam Darwin**  
316 messages
-  **Rob Beeston**  
270 messages
-  **Dave O'Connor**  
185 messages
-  **Joaquín M López Muñoz**  
111 messages
-  **Kari Skinner**  
69 messages
-  **Greg Kaleka**  
62 messages
-  **René Ferdinand Rivera ...**  
37 messages
-  **Peter Dimov**  
37 messages
-  **Dmitry Arkhipov**  
20 messages

# #boost-asio

**1,365** slack messages in #boost-asio  
**26** people were active for this release. **(20 New)**

## Top Contributors

-  **Vinnie Falco**  
436 messages
-  **Rubén Pérez Hidalgo**  
272 messages
-  **Klemens Morgenstern**  
225 messages
-  **Mohammad Nejati**  
84 messages
-  **Jarrod Smith**  
63 messages
-  **Peter Dimov**  
39 messages
-  **Christian Mazakas**  
35 messages
-  **Amlal El Mahrouss**  
34 messages
-  **Zackori C**  
32 messages
-  **Alexander Kremer**  
31 messages



# #boost-json

**503** slack messages in #boost-json

**13** people were active for this release. **(10 New)**

## Top Contributors



**Dmitry Arkhipov**  
165 messages



**Peter Dimov**  
118 messages



**Vinnie Falco**  
108 messages



**Emil Dotchevski**  
67 messages



**Sam Darwin**  
22 messages



**Mohammad Nejati**  
7 messages



**Klemens Morgenstern**  
6 messages



**Alan de Freitas**  
3 messages



**james droog**  
2 messages



**Nerixyz**  
2 messages

# #boost-url

**478** slack messages in #boost-url

**7** people were active for this release. **(5 New)**

## Top Contributors



**Vinnie Falco**  
212 messages



**Alan de Freitas**  
178 messages



**Mohammad Nejati**  
29 messages



**Peter Dimov**  
28 messages



**John Ericson**  
26 messages



**Amlal El Mahrouss**  
4 messages



**Julio C Estrada**  
1 message


# #boost-unordered


**180** slack messages in #boost-unordered  
**10** people were active for this release. **(10 New)**


## Top Contributors


 **Joaquín M López Muñoz**  
50 messages


 **Peter Dimov**  
45 messages


 **Pavel Odintsov**  
28 messages

 **Ion Gaztañaga**  
19 messages


 **Christian Mazakas**  
16 messages

 **Vinnie Falco**  
14 messages

 **Andrea Cedraro**  
3 messages

 **Mark Cooper**  
2 messages


 **Giver**  
2 messages

 **Alan de Freitas**  
1 message


# #boost-charconv


**67** slack messages in #boost-charconv  
**5** people were active for this release. **(5 New)**


## Top Contributors

 **Dmitry Arkhipov**  
26 messages

 **Matt Borland**  
20 messages

 **Peter Dimov**  
11 messages

 **Vinnie Falco**  
9 messages

 **Sam Darwin**  
1 message

## #boost-multi

**43** slack messages in #boost-multi

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

### Top Contributors



**Alfredo Correa**  
23 messages



**Vinnie Falco**  
13 messages



**Matt Borland**  
7 messages

## #boost-decimal

**17** slack messages in #boost-decimal

**2** people were active for this release. **(2 New)**

### Top Contributors



**Matt Borland**  
9 messages



**Ray Manaloto**  
8 messages

# #boost-process

5 slack messages in #boost-process

2 people were active for this release. (2 New)

## Top Contributors



Klemens Morgenstern

3 messages



zk

2 messages

# #boost-gil

4 slack messages in #boost-gil

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

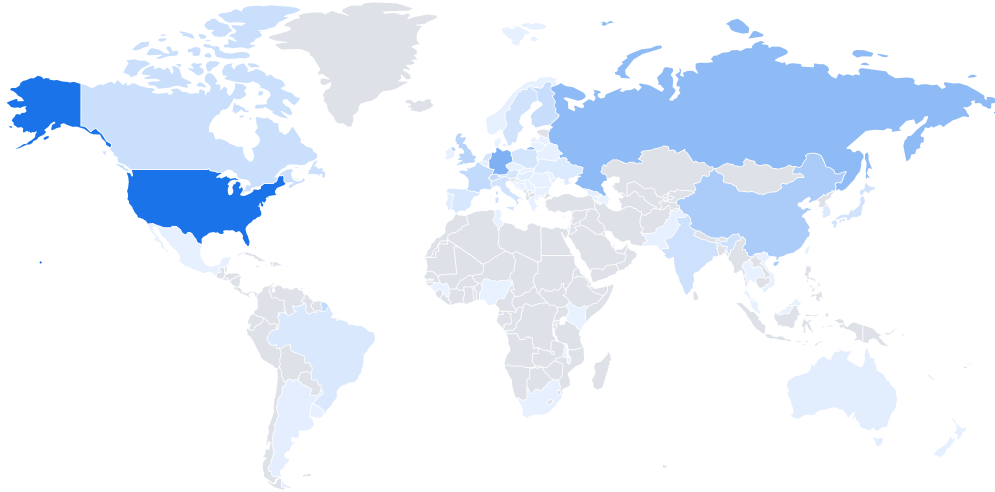
## Top Contributors



Samuel Debionne

4 messages

# Website Searches



1428 website searches.

Top 5 countries:

United States of America: **291** searches

Germany: **150** searches

Russia: **127** searches

China: **87** searches

United Kingdom: **67** searches

# Updated Libraries

## ★ OpenMethod

Any  
Asio  
Assert  
Atomic  
Beast  
Bloom  
CharConv  
Cobalt  
Compat  
Config  
Container  
Container Hash  
Context  
Conversion  
Core  
CRC  
Describe  
DLL  
Dynamic Bitset  
Filesystem  
Flyweight  
Geometry  
GIL  
Heap  
Histogram

Integer  
Interprocess  
Intrusive  
Iterator  
JSON  
Lambda2  
LEAF  
Lexical Cast  
Locale  
Lockfree  
Log  
Math  
Meta State Machine  
Move  
Mp11  
MPI  
MPL  
MQTT5  
Multi-Index  
Multiprecision  
MySQL  
Nowide  
Outcome  
Parameter  
Parser  
PFR

Pointer Container  
PolyCollection  
Process  
Program Options  
Python  
Random  
Redis  
Scope  
Signals2  
Smart Ptr  
Sort  
Spirit  
Stacktrace  
Static String  
Stl\_interfaces  
System  
Test  
ThrowException  
Type Index  
Unordered  
URL  
Utility  
Uuid  
Variant  
Variant2  
WinAPI

# Other Libraries

Accumulators  
Algorithm  
Align  
Array  
Assign  
Bimap  
Bind  
CallableTraits  
Chrono  
Circular Buffer  
Compute  
Concept Check  
Contract  
Convert  
Coroutine  
Coroutine2  
Date Time  
Detail  
Endian  
Exception  
Fiber  
Foreach  
Format  
Function  
Functional  
Function Types

Fusion  
Graph  
GraphParallel  
Hana  
Hash2  
HOF  
ICL  
Interval  
IO  
Iostreams  
Lambda  
Local Function  
Metaparse  
Multi-Array  
Numeric Conversion  
Odeint  
Optional  
Parameter Python Bindings  
Phoenix  
Polygon  
Pool  
Predef  
Preprocessor  
Property Map  
Property Map (Parallel)

Property Tree  
Proto  
QVM  
Range  
Ratio  
Rational  
Regex  
Safe Numerics  
Scope Exit  
Serialization  
Statechart  
Static Assert  
Thread  
Timer  
Tokenizer  
Tribool  
TTI  
Tuple  
Type Erasure  
Typeof  
Type Traits  
uBLAS  
Units  
VMD  
Wave  
Xpressive

YAP



# New Libraries



## OpenMethod

Open-methods are free-standing functions that work like virtual functions: they select the best overrider from a set, depending on the dynamic type of their arguments. This makes it possible to add polymorphic operations to existing classes, without modifying them. They make patterns like Visitor unnecessary.

<https://github.com/boostorg/openmethod>

### Contributors:



Jean-Louis Leroy

## Boost.Any

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

There was **1** commit in release 1.90.0

**84** lines added, **10** lines removed

There were **3** issues opened and were **0** issues closed

### Top Contributors



**Antony Polukhin**  
1 commit

## 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 **45** commits in release 1.90.0

**13,071** lines added, **530** lines removed

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

### Top Contributors



**Christopher Kohlhoff**  
45 commits

## Boost.Assert

Customizable assert macros.

There were **13** commits in release 1.90.0

**35** lines added, **24** lines removed

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

### Top Contributors



**Peter Dimov**  
13 commits

## Boost.Atomic

C++11-style atomic types.

There were **6** commits in release 1.90.0

**4** lines added, **14** lines removed

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

### Top Contributors



**Andrey Semashev**  
4 commits



**Alexander Grund**  
2 commits

# Boost.Beast

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

There were **18** commits in release 1.90.0

**2,595** lines added, **60,438** lines removed

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

There were **21** issues opened and were **15** issues closed

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

## Top Contributors



**Mohammad Nejati**

**16** commits



**dvtate**

**1** commit



**biljazovic**

**1** commit

# Boost.Bloom

Bloom filters.

There were **6** commits in release 1.90.0

**3,467** lines added, **715** lines removed

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

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

## Top Contributors



**Joaquin M. López Muñoz**

**3** commits



**sdarwin**

**1** commit



**Peter Dimov**

**1** commit



**ivanpanch**

**1** commit

## Boost.CharConv

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

There were **15** commits in release 1.90.0

**157** lines added, **33** lines removed

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

### Top Contributors



**Matt Borland**

**15** commits

## Boost.Cobalt

Coroutines. Basic Algorithms & Types

There were **11** commits in release 1.90.0

**159** lines added, **73** lines removed

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

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

### Top Contributors



**Klemens Morgenstern**

**7** commits



**Andrey Semashev**

**2** commits



**Alexander Grund**

**1** commit



**zS**

**1** commit

## Boost.Compat

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

There were **20** commits in release 1.90.0

**527** lines added, **221** lines removed

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

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

### Top Contributors



**Peter Dimov**  
18 commits



**braden**  
2 commits

## Boost.Config

Helps Boost library developers adapt to compiler idiosyncrasies; not intended for library users.

There were **13** commits in release 1.90.0

**21** lines added, **126** lines removed

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

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

### Top Contributors



**Anarthal (Rubén Pérez)**  
9 commits



**Peter Dimov**  
2 commits



**John Maddock**  
1 commit



**Marshall Clow**  
1 commit

## Boost.Container

Standard library containers and extensions.

There were **100** commits in release 1.90.0

**3,105** lines added, **1,503** lines removed

There were **5** new contributors for this release!

There were **8** issues opened and were **17** issues closed

### Top Contributors



**Ion Gaztañaga**  
89 commits



**Nigel Stewart**  
6 commits



**m4xG4**  
2 commits



**Alexander Grund**  
1 commit



**zjyhjqs**  
1 commit



**Juan Carlos Arevalo Bae...**  
1 commit

## Boost.ContainerHash

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

There were **3** commits in release 1.90.0

**22** lines added, **12** lines removed

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

### Top Contributors



**Peter Dimov**  
3 commits



# Boost.Context

(C++11) Context switching library.

There were **16** commits in release 1.90.0

**131** lines added, **8** lines removed

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

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

## Top Contributors



**Oliver Kowalke**

7 commits



**Vasanth Karanam**

2 commits



**Erik Bråthen Solem**

2 commits



**Zayd Rajab**

1 commit



**Carlo Bramini**

1 commit



**newyork\_loki**

1 commit



**Peter Dimov**

1 commit



**crueter**

1 commit

## Boost.Conversion

Polymorphic casts.

There was **1** commit in release 1.90.0

**58** lines added, **10** lines removed

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

### Top Contributors



**Antony Polukhin**  
1 commit

## Boost.Core

A collection of simple core utilities with minimal dependencies.

There were **28** commits in release 1.90.0

**378** lines added, **89** lines removed

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

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

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

### Top Contributors



**Peter Dimov**  
18 commits



**Andrey Semashev**  
5 commits



**Gennaro Prota**  
2 commits



**Alexander Grund**  
1 commit



**Glen Fernandes**  
1 commit



**Mohammad Nejati**  
1 commit

## Boost.Crc

The Boost CRC Library provides two implementations of CRC (cyclic redundancy code) computation objects and two implementations of CRC computation functions. The implementations are template-based.

There were **4** commits in release 1.90.0

**62** lines added, **51** lines removed

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

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

### Top Contributors



**Peter Dimov**

2 commits



**ivanpanch**

2 commits

## Boost.Describe

A C++14 reflection library.

There were **8** commits in release 1.90.0

**86** lines added, **29** lines removed

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

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

### Top Contributors



**Peter Dimov**

7 commits



**sigbjorn**

1 commit

# Boost.Dll

Library for comfortable work with DLL and DSO.

There were **3** commits in release 1.90.0

**54** lines added, **26** lines removed

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

## Top Contributors



**Antony Polukhin**

2 commits



**Yury Bura**

1 commit

# 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 **183** commits in release 1.90.0

**10,904** lines added, **8,370** lines removed

There were **5** new contributors for this release!

There were **0** issues opened and were **3** issues closed

There were **0** dependencies added and **3** dependencies removed

## Top Contributors



**Gennaro Prota**  
173 commits



**Joaquin M. López Muñoz**  
3 commits



**Alan de Freitas**  
2 commits



**ivanpanch**  
2 commits



**James E. King III**  
1 commit



**Sébastien Lorient**  
1 commit



**greg7mdp**  
1 commit



## Boost.Filesystem

The Boost Filesystem Library provides portable facilities to query and manipulate paths, files, and directories.

There were **8** commits in release 1.90.0

**21** lines added, **4** lines removed

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

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

### Top Contributors



**Andrey Semashev**

5 commits



**Alexander Grund**

2 commits



**Dong Wang**

1 commit

## Boost.Flyweight

Design pattern to manage large quantities of highly redundant objects.

There were **2** commits in release 1.90.0

**170** lines added, **34** lines removed

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

### Top Contributors



**Alexander Grund**

1 commit



**Joaquin M. López Muñoz**

1 commit

# Boost.Geometry

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

There were **20** commits in release 1.90.0

**9,225** lines added, **8,599** lines removed

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

There were **7** issues opened and were **2** issues closed

## Top Contributors



**Vissarion Fisikopoulos**

9 commits



**Barend Gehrels**

3 commits



**Tinko Bartels**

3 commits



**ivanpanch**

1 commit



**Rene Rivera**

1 commit



**Harsha Totakura**

1 commit



**Jeremy W. Murphy**

1 commit



**Alexander Grund**

1 commit



# Boost.Gil

(C++14) Generic Image Library

There were **24** commits in release 1.90.0

**149** lines added, **149** lines removed

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

There were **8** issues opened and were **2** issues closed

## Top Contributors



**ivanpanch**

**19** commits



**Dirk Stolle**

**2** commits



**Samuel Debione**

**2** commits



**AnonymousPC**

**1** commit

# Boost.Heap

Priority queue data structures.

There were **4** commits in release 1.90.0

**21** lines added, **26** lines removed

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

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

## Top Contributors



**Tim Blechmann**

**3** commits



**Alexander Grund**

**1** commit

## Boost.Histogram

Fast multi-dimensional histogram with convenient interface for C++14

There were **2** commits in release 1.90.0

**79** lines added, **6** lines removed

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

### Top Contributors



**Hans Dembinski**

1 commit



**Andrey Semashev**

1 commit

## Boost.Integer

The organization of boost integer headers and classes is designed to take advantage of <stdint.h> types from the 1999 C standard without resorting to undefined behavior in terms of the 1998 C++ standard. The header <boost/cstdint.hpp> makes the standard integer types safely available in namespace boost without placing any names in namespace std.

There were **3** commits in release 1.90.0

**2** lines added, **23** lines removed

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

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

### Top Contributors



**Andrey Semashev**

2 commits



**Alexander Grund**

1 commit

## Boost.Interprocess

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

There were **28** commits in release 1.90.0

**279** lines added, **549** lines removed

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

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

### Top Contributors



**Ion Gaztañaga**  
23 commits



**wmamrak**  
2 commits



**Anthony Eden**  
1 commit



**Peter Dimov**  
1 commit



**Miguel Company**  
1 commit

## Boost.Intrusive

Intrusive containers and algorithms.

There were **7** commits in release 1.90.0

**14** lines added, **18** lines removed

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

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

### Top Contributors



**Ion Gaztañaga**  
6 commits



**Alexander Grund**  
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 were **5** commits in release 1.90.0

**12** lines added, **8** lines removed

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

### Top Contributors



**Andrey Semashev**

4 commits



**Alexander Grund**

1 commit

## Boost.Json

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

There were **15** commits in release 1.90.0

**534** lines added, **310** lines removed

There were **15** issues opened and were **7** issues closed

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

### Top Contributors



**Dmitry**

13 commits



**sdarwin**

1 commit



**Nigel Stewart**

1 commit

# Boost.Lambda2

A C++14 lambda library.

There were **2** commits in release 1.90.0

**8** lines added, **10** lines removed

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

## Top Contributors



**Peter Dimov**  
2 commits

# Boost.Leaf

A lightweight error handling library for C++11.

There were **33** commits in release 1.90.0

**87** lines added, **35** lines removed

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

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

## Top Contributors



**Rene Rivera**  
25 commits



**Emil Dotchevski**  
4 commits



**Dirk Stolle**  
2 commits



**Peter Dimov**  
1 commit



**ericli-splunk**  
1 commit

## Boost.LexicalCast

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

There were **7** commits in release 1.90.0

**386** lines added, **178** lines removed

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

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

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

### Top Contributors



**Antony Polukhin**

4 commits



**Romain Geissler**

1 commit



**ivanpanch**

1 commit



**bmagistro**

1 commit

## Boost.Locale

Provide localization and Unicode handling tools for C++.

There were **47** commits in release 1.90.0

**2,354** lines added, **1,252** lines removed

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

### Top Contributors



**Alexander Grund**

47 commits

# Boost.Lockfree

Lockfree data structures.

There were **7** commits in release 1.90.0

**24** lines added, **43** lines removed

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

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

## Top Contributors



**Tim Blechmann**

**3** commits



**ivanpanch**

**2** commits



**Ashish Sadanandan**

**1** commit



**Alexander Grund**

**1** commit

# Boost.Log

Logging library.

There were **9** commits in release 1.90.0

**18** lines added, **25** lines removed

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

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

## Top Contributors



**Andrey Semashev**

**7** commits



**Alexander Grund**

**2** commits

# 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 **198** commits in release 1.90.0

**110,068** lines added, **514** lines removed

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

There were **11** issues opened and were **10** issues closed

## Top Contributors



**Maksym Zhelyeznyakov**

**83** commits



**Matt Borland**

**72** commits



**Christopher Kormanyos**

**33** commits



**Andrew Johnson**

**5** commits



**warren**

**2** commits



**John Maddock**

**2** commits



**Romain Geissler**

**1** commit



# Boost.MetaStateMachine

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

There were **103** commits in release 1.90.0

**17,297** lines added, **33,239** lines removed

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

There were **9** issues opened and were **8** issues closed

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

## Top Contributors



**Christian Granzin**

**86** commits



**henry-ch**

**4** commits



**Christophe Henry**

**4** commits



**Peter Dimov**

**3** commits



**dependabot[bot]**

**3** commits



**Alexander Grund**

**2** commits



**ivanpanch**

**1** commit



## Boost.Move

Portable move semantics for C++03 and C++11 compilers.

There were **10** commits in release 1.90.0

**15** lines added, **16** lines removed

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

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

### Top Contributors



**Ion Gaztañaga**

8 commits



**Alexander Grund**

1 commit



**sdarwin**

1 commit

## Boost.Mp11

A C++11 metaprogramming library.

There were **12** commits in release 1.90.0

**53** lines added, **47** lines removed

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

### Top Contributors



**Peter Dimov**

10 commits



**Joaquin M. López Muñoz**

2 commits

# Boost.Mpi

Message Passing Interface library, for use in distributed-memory parallel application programming.

There was **1** commit in release 1.90.0

**5** lines added, **0** lines removed

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

## Top Contributors



**Samuel Debione**

**1** commit

# Boost.Mpl

The Boost.MPL library is a general-purpose, high-level C++ template metaprogramming framework of compile-time algorithms, sequences and metafunctions. It provides a conceptual foundation and an extensive set of powerful and coherent tools that make doing explicit metaprogramming in C++ as easy and enjoyable as possible within the current language.

There were **4** commits in release 1.90.0

**95** lines added, **506** lines removed

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

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

## Top Contributors



**James E. King III**

**2** commits



**Sergey Chebotarev**

**1** commit



**Thomas Höhlig**

**1** commit

## Boost.Mqtt5

MQTT5 client library built on top of Boost.Asio.

There were **5** commits in release 1.90.0

**458** lines added, **474** lines removed

There were **9** issues opened and were **6** issues closed

There were **0** dependencies added and **3** dependencies removed

### Top Contributors



**Bruno Iljazovic**

**5** commits

## 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 **4** commits in release 1.90.0

**59** lines added, **59** lines removed

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

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

### Top Contributors



**Joaquin M. López Muñoz**

**2** commits



**Alexander Grund**

**1** commit



**ivanpanch**

**1** commit

## Boost.Multiprecision

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

There were **135** commits in release 1.90.0

**3,921** lines added, **2,112** lines removed

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

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

### Top Contributors



**Christopher Kormanyos**

**127** commits



**Matt Borland**

**4** commits



**Richard Thomson**

**2** commits



**Pavel P**

**1** commit



**ivanpanch**

**1** commit

## Boost.MySQL

MySQL client library built on top of Boost.Asio.

There were **4** commits in release 1.90.0

**116** lines added, **800** lines removed

There were **2** issues opened and were **11** issues closed

### Top Contributors



**Anarthal (Rubén Pérez)**

**4** commits

## Boost.Nowide

Standard library functions with UTF-8 API on Windows.

There were **22** commits in release 1.90.0

**85** lines added, **435** lines removed

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

### Top Contributors



**Alexander Grund**

**22** commits

## Boost.Outcome

A deterministic failure handling library partially simulating lightweight exceptions.

There were **3** commits in release 1.90.0

**73** lines added, **50** lines removed

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

### Top Contributors



**Niall Douglas**

**2** commits



**Jenkins nedprod CI**

**1** commit

## Boost.Parameter

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

There were **2** commits in release 1.90.0

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

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

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

### Top Contributors



**Alexander Grund**

1 commit



**Andrey Semashev**

1 commit

## Boost.Parser

A parser combinator library.

There were **33** commits in release 1.90.0

**438** lines added, **140** lines removed

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

There were **18** issues opened and were **16** issues closed

### Top Contributors



**ivanpanch**

13 commits



**Zach Laine**

12 commits



**Andreas Buhr**

8 commits

## Boost.Pfr

Basic reflection for user defined types.

There were **5** commits in release 1.90.0

**397** lines added, **54** lines removed

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

There was **1** issue opened and were **4** issues closed

### Top Contributors



**Antony Polukhin**

**3** commits



**Alexander Grund**

**2** commits

## Boost.PointerContainer

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

There was **1** commit in release 1.90.0

**20** lines added, **409** lines removed

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

### Top Contributors



**James E. King III**

**1** commit



# Boost.PolyCollection

Fast containers of polymorphic objects.

There was **1** commit in release 1.90.0

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

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

## Top Contributors



**Alexander Grund**

**1** commit

# Boost.Process

Library to create processes in a portable way.

There were **20** commits in release 1.90.0

**305** lines added, **68** lines removed

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

There were **12** issues opened and were **5** issues closed

## Top Contributors



**Klemens Morgenstern**

**15** commits



**Alexander Grund**

**2** commits



**Konvicka Filip**

**1** commit



**EelisVP**

**1** commit



**chn**

**1** commit

# 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 were **33** commits in release 1.90.0

**280** lines added, **194** lines removed

There were **5** new contributors for this release!

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

## Top Contributors



**Rene Rivera**

18 commits



**Peter Dimov**

6 commits



**bmagistro**

2 commits



**Andrey Semashev**

1 commit



**Sylvain Joubert**

1 commit



**Lukas Friembichler**

1 commit



**ivanpanch**

1 commit



**Marcos Simental**

1 commit



**Alexander Grund**

1 commit



**Vladimir Prus**

1 commit

# Boost.Python

The Boost Python Library is a framework for interfacing Python and C++. It allows you to quickly and seamlessly expose C++ classes functions and objects to Python, and vice-versa, using no special tools -- just your C++ compiler.

There were **18** commits in release 1.90.0

**142** lines added, **83** lines removed

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

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

## Top Contributors



**E Kawashima**  
7 commits



**Stefan Seefeld**  
7 commits



**Thomas Kent**  
1 commit



**Abhay Kumar**  
1 commit



**Anton Gladky**  
1 commit



**Aditya Pillai**  
1 commit

# Boost.Random

A complete system for random number generation.

There were **14** commits in release 1.90.0

**72** lines added, **20** lines removed

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

## Top Contributors



**Matt Borland**  
13 commits



**Alexander Grund**  
1 commit

# Boost.Redis

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

There were **42** commits in release 1.90.0

**8,086** lines added, **2,755** lines removed

There were **33** issues opened and were **39** issues closed

## Top Contributors



**Anarthal (Rubén Pérez)**  
34 commits



**Marcelo Zimbres**  
8 commits

# Boost.Scope

A collection of scope guards and a unique\_resource wrapper.

There were **2** commits in release 1.90.0

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

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

## Top Contributors



**Andrey Semashev**  
2 commits

## Boost.Signals2

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

There were **6** commits in release 1.90.0

**5** lines added, **4** lines removed

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

### Top Contributors



**Frank Mori Hess**

3 commits



**Romain Geissler**

1 commit



**Alexander Grund**

1 commit



**sdarwin**

1 commit

## Boost.SmartPtr

Smart pointer class templates.

There were **39** commits in release 1.90.0

**241** lines added, **5,343** lines removed

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

### Top Contributors



**Peter Dimov**

39 commits

# Boost.Sort

High-performance templated sort functions.

There were **31** commits in release 1.90.0

**421** lines added, **432** lines removed

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

## Top Contributors



**spreadsort**  
13 commits



**Peter Dimov**  
11 commits



**Nigel Stewart**  
6 commits



**Francisco Tapia**  
1 commit

# Boost.Spirit

LL parser framework represents parsers directly as EBNF grammars in inlined C++.

There were **83** commits in release 1.90.0

**89** lines added, **41** lines removed

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

There were **7** issues opened and were **10** issues closed

## Top Contributors



**Nana Sakisaka**

75 commits



**chrisse74**

1 commit



**Peter Dimov**

1 commit



**ZHUO Qiang**

1 commit



**Adem Budak**

1 commit



**sigbjorn**

1 commit



**Ta'am**

1 commit



**Joel de Guzman**

1 commit



**Robert Adam**

1 commit

## Boost.Stacktrace

Gather, store, copy and print backtraces.

There were **3** commits in release 1.90.0

**12** lines added, **11** lines removed

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

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

### Top Contributors



**Antony Polukhin**

1 commit



**Jonathan Wakely**

1 commit



**Orgad Shaneh**

1 commit

## Boost.StaticString

A fixed capacity dynamically sized string.

There were **45** commits in release 1.90.0

**1,677** lines added, **1,962** lines removed

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

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

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

### Top Contributors



**Alexander Grund**

18 commits



**Rene Rivera**

12 commits



**Gennaro Prota**

12 commits



**Dmitry**

1 commit



**me@kennethreitz.org**

1 commit



**Arthur O'Dwyer**

1 commit



# Boost.StlInterfaces

C++14 and later CRTP templates for defining iterators, views, and containers.

There were **3** commits in release 1.90.0

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

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

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

## Top Contributors



**Zach Laine**

2 commits



**Stat1cV01D**

1 commit

# Boost.System

Extensible error reporting.

There were **5** commits in release 1.90.0

**52** lines added, **9** lines removed

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

## Top Contributors



**Peter Dimov**

4 commits



**Vinnie Falco**

1 commit

## Boost.Test

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

There were **13** commits in release 1.90.0

**247** lines added, **176** lines removed

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

There were **8** issues opened and were **9** issues closed

### Top Contributors



**Matt Borland**  
7 commits



**Alexander Grund**  
2 commits



**Rene Rivera**  
1 commit



**Tim Blechmann**  
1 commit



**Hennadii Stepanov**  
1 commit



**Peter Dimov**  
1 commit

## Boost.ThrowException

A common infrastructure for throwing exceptions from Boost libraries.

There were **2** commits in release 1.90.0

**40** lines added, **32** lines removed

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

### Top Contributors



**Peter Dimov**  
2 commits

# Boost.TypeIndex

Runtime/Compile time copyable type info.

There were **5** commits in release 1.90.0

**226** lines added, **53** 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



**Antony Polukhin**

4 commits



**Alexander Grund**

1 commit

# Boost.Unordered

Unordered associative containers.

There were **10** commits in release 1.90.0

**2,230** lines added, **1,725** lines removed

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

## Top Contributors



**Joaquin M. López Muñoz**

6 commits



**Alexander Grund**

1 commit



**sdarwin**

1 commit



**braden**

1 commit



**Peter Dimov**

1 commit

## Boost.Url

URL parsing in C++11

There were **20** commits in release 1.90.0

**2,311** lines added, **1,713** lines removed

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

There were **25** issues opened and were **11** issues closed

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

### Top Contributors



**Alan de Freitas**

**15** commits



**Vinnie Falco**

**2** commits



**Alexander Grund**

**1** commit



**sdarwin**

**1** commit



**ivanpanch**

**1** commit

## Boost.Utility

Various utilities, such as base-from-member idiom and binary literals in C++03.

There were **2** commits in release 1.90.0

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

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

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

### Top Contributors



**Alexander Grund**

**1** commit



**Andrey Semashev**

**1** commit

## Boost.Uuid

A universally unique identifier.

There were **41** commits in release 1.90.0

**423** lines added, **145** lines removed

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

There were **2** issues opened and were **10** issues closed

### Top Contributors



**Peter Dimov**  
26 commits



**ivanpanch**  
13 commits



**Alexander Grund**  
1 commit



**James E. King III**  
1 commit

## Boost.Variant

Safe, generic, stack-based discriminated union container.

There were **2** commits in release 1.90.0

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

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

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

### Top Contributors



**Antony Polukhin**  
1 commit



**Alexander Grund**  
1 commit

## Boost.Variant2

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

There were **12** commits in release 1.90.0

**398** lines added, **90** lines removed

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

### Top Contributors



**Peter Dimov**  
12 commits

## Boost.WinAPI

Windows API abstraction layer.

There were **6** commits in release 1.90.0

**118** lines added, **63** lines removed

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

### Top Contributors



**Andrey Semashev**  
5 commits



**Alexander Grund**  
1 commit