

## Wt - Bug #6367

### WIOService Freeze under hevy load?

05/08/2018 07:41 AM - Drus Kor

<b>Status:</b> Closed	<b>Start date:</b> 05/08/2018
<b>Priority:</b> High	<b>Due date:</b>
<b>Assignee:</b>	<b>% Done:</b> 0%
<b>Category:</b>	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> 4.5.0	

**Description**

After several minutes of load test:

- Wt didn't answer anything by http.
- Telnet can connect to port. But no any answer.
- All threads work in asio::io\_service::run();
  - No one funcrion of WIOService be call

it is simply to repeat.

Where need look?

What kind of info need to debug?

#### History

##### #1 - 05/08/2018 11:05 AM - Wim Dumon

Hello Drus,

That's not normal in any case.

What version of boost and what operating system? Are you using prebuilt binaries?

For debugging, stack traces of all threads at the moment of the lockup would be the first place to get an idea of what is going on. Often it gives an idea on what your application is stuck.

Best regards,

Wim.

##### #2 - 05/08/2018 05:51 PM - Drus Kor

Hello!

I'm testing this case on kubuntu 16,17,18 with default boost library.

freeze only with

```
app->enable Updates();
```

```
std::unique_ptr<WApplication> createApplication( const WEnvironment& env )
{
std::unique_ptr<WApplication> app = std::make_unique<WApplication>( env );
app->enableUpdates();
return app;
}
```

on 8-core cpu run 100 active browser tabs with active javascript and load random page in while loop.

I'll post debugging later. thx.

##### #3 - 05/10/2018 09:25 AM - Drus Kor

9 threads stay under

@

```
1 futex_wait_cancelable futex-internal.h 88 0x7fff54d1072
2 __pthread_cond_wait_common pthread_cond_wait.c 502 0x7fff54d1072
3 __pthread_cond_wait pthread_cond_wait.c 655 0x7fff54d1072
4 boost::asio::detail::posix_event::wait<boost::asio::detail::scoped_lockboost::asio::detail::posix_mutex> posix_event.hpp 106 0x7fff76efeb8
5 boost::asio::detail::task_io_service::do_run_one task_io_service.hpp 380 0x7fff76efeb8
6 boost::asio::detail::task_io_service::run task_io_service.hpp 149 0x7fff76efeb8
7 boost::asio::io_service::run io_service.hpp 59 0x7fff76efeb8
8 Wt::WIOService::run WIOService.C 180 0x7fff76efeb8
9 ?? 0x7fff59b50ff
10 start_thread pthread_create.c 465 0x7fff54ca7fc
11 clone clone.S 95 0x7fff51f7b5f
```

@

one

```
1 __GI_epoll_pwait          epoll_pwait.c    42 0x7fff51f7cd7
2 epoll_wait               epoll_wait.c     30 0x7fff51f7e38
3 boost::asio::detail::epoll_reactor::run    epoll_reactor.hpp 392 0x7fff76f33af
4 boost::asio::detail::task_io_service::do_run_one task_io_service.hpp 356 0x7fff76efc51
5 boost::asio::detail::task_io_service::run  task_io_service.hpp 149 0x7fff76efc51
6 boost::asio::io_service::run              io_service.hpp   59 0x7fff76efc51
7 Wt::WIOService::run                    WIOService.C    180 0x7fff76efc51
8 ??                                     0x7fff59b50ff
9 start_thread                  pthread_create.c 465 0x7fff54ca7fc
10 clone                          clone.S          95 0x7fff51f7b5f
```

any of threads enter in above code

after that log contains only [post]

```
127.0.0.1 - - [2018-May-10 12:20:51.809] "POST /?wtd=f2ySCWldDI0Pc4Fx HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.809] "POST /?wtd=ffkbTBDj4om61eKZ HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.809] "POST /?wtd=g0yaLs65c6QHff8s HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.810] "POST /?wtd=gBNbqQgHcSziPHhC HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.810] "POST /?wtd=goT08mYpplrQbE6t HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.810] "POST /?wtd=hUNOTowdyg8CDZ8h HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.810] "POST /?wtd=ibq11KgZp8laZzBZ HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.811] "POST /?wtd=idJEKtis0sH6onWR HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.811] "POST /?wtd=imTj2eGEDZfsF7O HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.811] "POST /?wtd=ipe5xMxyKmGAGzk6 HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.811] "POST /?wtd=ngKr8xHgs8qbGkDv HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.812] "POST /?wtd=owFPgDnjytRFsGbr HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.812] "POST /?wtd=OMGKU6owgBJVgUB HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.812] "POST /?wtd=qmN5EaZtj0fsVP17 HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.813] "POST /?wtd=sHLWSHCQksStOBkj HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.813] "POST /?wtd=rSJCyf8fYpmZWom1 HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.813] "POST /?wtd=tJiPxV9r0BoEiBtD HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.813] "POST /?wtd=tnlK5WbhWhKsCfAK HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.814] "POST /?wtd=umlk9DiiRcE6ykbS HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.814] "POST /?wtd=un1qyHZrcpCieyNi HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.814] "POST /?wtd=vR2laUqRoJ3Y82IS HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.814] "POST /?wtd=wLFtNdCecq8Ycid9 HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.815] "POST /?wtd=yWybxiatbaYiPzWG HTTP/1.1" 200 0
127.0.0.1 - - [2018-May-10 12:20:51.815] "POST /?wtd=zCwdfAhG0KUbz1V1 HTTP/1.1" 200 0
```

seems need debug build.

It seems that debugging is needed.

Hope I'm doing it in the evening.

#4 - 05/10/2018 10:36 AM - Drus Kor

Normal work trace

@

```

1 Wt::WIOService::schedule(std::chrono::duration<long, std::ratio<1, 1000000000l>>, std::function<void ()> const&) WIOService.C 133
0x7ffff7270134

2 Wt::WServer::schedule(std::chrono::duration<long, std::ratio<1, 1000000000l>>, std::string const&, std::function<void ()> const&, std::function<void
()> const&) WServer.C 225 0x7ffff7362d00

3 Wt::WebSession::handleRequest WebSession.C 1575 0x7ffff7761de1

4 Wt::WebController::handleRequest WebController.C 756 0x7ffff77414bd

5 std::__invoke_impl<void, void (Wt::WebController:: &)(Wt::WebRequest), Wt::WebController &, http::server::HTTPRequest&> invoke.h 73
0x7ffff6078e82

6 std::__invoke<void (Wt::WebController:: &)(Wt::WebRequest), Wt::WebController &, http::server::HTTPRequest&> invoke.h 95 0x7ffff6078cf0

7 std::Bind<void (Wt::WebController::*)(Wt::WebRequest)>::_call<void, , 0ul, 1ul>(std::tuple<>&&, std::_Index_tuple<0ul, 1ul>) functional 467
0x7ffff6078b6c

8 std::_Bind<void (Wt::WebController::*)(Wt::WebRequest)>::operator()<, void>() functional 551 0x7ffff60789ed

9 boost::asio::asio_handler_invoke<std::_Bind<void (Wt::WebController::)(Wt::WebRequest)>>(std::_Bind<void (Wt::WebController::
)(Wt::WebRequest)>&, ...) handler_invoke_hook.hpp 69 0x7ffff607887d

10 boost::asio::detail::completion_handler::invoke<std::_Bind<void (Wt::WebController::)(Wt::WebRequest)>, std::_Bind<void (Wt::WebController::
)(Wt::WebRequest)>>(std::_Bind<void (Wt::WebController::)(Wt::WebRequest)>&, std::_Bind<void (Wt::WebController::)(Wt::WebRequest)>&)
handler_invoke_helpers.hpp 37 0x7ffff60786ed

11 boost::asio::detail::completion_handler<std::_Bind<void (Wt::WebController::)(Wt::WebRequest
)>>::_do_complete(boost::asio::detail::task_io_service, boost::asio::detail::task_io_service_operation, boost::system::error_code const&, unsigned
long) completion_handler.hpp 68 0x7ffff60780a0

12 boost::asio::detail::task_io_service_operation::complete task_io_service_operation.hpp 38 0x7ffff7271b9a

13 boost::asio::detail::task_io_service::do_run_one task_io_service.hpp 372 0x7ffff7273d05

14 boost::asio::detail::task_io_service::run task_io_service.hpp 149 0x7ffff7273729

15 boost::asio::io_service::run io_service.hpp 59 0x7ffff7274014

16 Wt::WIOService::run WIOService.C 180 0x7ffff727059b

17 std::__invoke_impl<void, void (Wt::WIOService:: &)(), Wt::WIOService&> invoke.h 73 0x7ffff7279f3f

18 std::__invoke<void (Wt::WIOService:: &)(), Wt::WIOService&> invoke.h 95 0x7ffff727969a

19 std::Bind<void (Wt::WIOService::*)(Wt::WIOService *)>::_call<void, , 0ul>(std::tuple<>&&, std::_Index_tuple<0ul>) functional 467 0x7ffff727865f

20 std::_Bind<void (Wt::WIOService::*)(Wt::WIOService *)>::operator()<, void>() functional 551 0x7ffff727799b

```

...

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after break

```

1 boost::asio::detail::task_io_service_operation::complete
task_io_service_operation.hpp 38 0x7ffff7271b80
2 boost::asio::detail::task_io_service::do_run_one
372 0x7ffff7273d05 task_io_service.hpp
3 boost::asio::detail::task_io_service::run
149 0x7ffff7273729 task_io_service.hpp
4 boost::asio::io_service::run
0x7ffff7274014 io_service.hpp 59
5 Wt::WIOService::run
0x7ffff727059b WIOService.C 180
6 std::__invoke_impl<void, void (Wt::WIOService:: &)(), Wt::WIOService *&>
73 0x7ffff7279f3f invoke.h
7 std::__invoke<void (Wt::WIOService:: &)(), Wt::WIOService *&>
95 0x7ffff727969a invoke.h

```

```

8 std::_Bind<void (Wt::WIOService:: *(Wt::WIOService *)())>::__call<void, , 0ul>(std::tuple<>&&, std::_Index_tuple<0ul>)
functional 467 0x7ffff727865f
9 std::_Bind<void (Wt::WIOService:: *(Wt::WIOService *)())>::operator()<, void>() functional
551 0x7ffff727799b
10 std::_invoke_impl<void, std::_Bind<void (Wt::WIOService:: *(Wt::WIOService *)())>>(std::_invoke_other, std::_Bind<void (Wt::WIOService::
*(Wt::WIOService *)())>&&) invoke.h 60 0x7ffff7276aa7
11 std::_invoke<std::_Bind<void (Wt::WIOService:: *(Wt::WIOService *)())>>(std::_Bind<void (Wt::WIOService:: *(Wt::WIOService *)())>&&)
invoke.h 95 0x7ffff7275d9f
12 std::thread::_Invoker<std::tuple<std::_Bind<void (Wt::WIOService:: *(Wt::WIOService *)())>>>::_M_invoke<0ul>(std::_Index_tuple<0ul>)
thread 234 0x7ffff727d0de
13 std::thread::_Invoker<std::tuple<std::_Bind<void (Wt::WIOService:: *(Wt::WIOService *)())>>>::operator()()
thread 243 0x7ffff727cb6c
14 std::thread::_State_impl<std::thread::_Invoker<std::tuple<std::_Bind<void (Wt::WIOService:: *(Wt::WIOService *)())>>>::_M_run()
thread 186 0x7ffff727c730
15 ?? 0x7ffff43ff0ff
16 start_thread pthread_create.c 465
0x7ffff3f147fc
17 clone clone.S 95 0x7ffff3c41b5f

```

No enter in function

```

11 boost::asio::detail::completion_handler<std::_Bind<void (Wt::WebController:: *(Wt::WebController *, http::server::HTTPRequest
*)(Wt::WebRequest *)>>::do_complete(boost::asio::detail::task_io_service *, boost::asio::detail::task_io_service_operation *,
boost::system::error_code const&, unsigned long)
completion_handler.hpp 68 0x7ffff60780a0

```

**#5 - 06/01/2018 11:06 AM - Roel Standaert**

- Status changed from New to Feedback

Could you possibly share the test environment you're using? Having over 100 tabs open seems to be working alright for me after I increased the maximum connections per server limit of my browser (note that I'm using Boost 1.67 on Ubuntu 16.04, though).

**#6 - 06/13/2018 01:50 PM - Drus Kor**

- File trunk.tar.gz added

Hello!

I'm testing app by Qt.

Internal path value don't have any meaning.

May be important redirect wApp output to /dev/null.

Today i have some troubles to reproduce bug. Start over 20+ test app ( not from Ide ).

Checking work status by browser tab.

**#7 - 06/13/2018 04:52 PM - Roel Standaert**

Are you saying that right now you can't reproduce it either? Because I can't either. I was testing hello.wt and at some point it had over 12000 sessions, and it was still working properly.

**#8 - 06/13/2018 05:29 PM - Drus Kor**

Think problem is not in connections count. It is in dynamic create/delete sessions. Try sending code to detect "lost response bug".

Bug reproduced, sorry my eng.skill

**#9 - 08/27/2018 10:27 AM - Roel Standaert**

- Target version changed from 4.0.4 to 4.0.5

**#10 - 12/14/2018 04:46 PM - Roel Standaert**

- Target version changed from 4.0.5 to 4.1.0

**#11 - 11/20/2020 11:16 AM - Wim Dumon**

- Description updated

- Status changed from Feedback to Confirmed

- Target version changed from 4.1.0 to 4.5.0

Hello Drus,

We could reproduce this, a fix will be in git soon. Your stack trace and description matches with the problem we identified.

BR,  
Wim.

**#12 - 11/23/2020 11:04 AM - Roel Standaert**

- Status changed from Confirmed to Implemented @Emweb

**#13 - 11/23/2020 11:04 AM - Roel Standaert**

- Status changed from Implemented @Emweb to Resolved

**#14 - 12/17/2020 01:48 PM - Roel Standaert**

- Status changed from Resolved to Closed

## Files

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trunk.tar.gz	2.54 KB	06/13/2018	Drus Kor
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