

## Robotics Service Bus - Bug #1184

### Connection from socket client to server on different host sometimes hangs

10/01/2012 02:45 PM - J. Wienke

<b>Status:</b>	Resolved	<b>Start date:</b>	10/01/2012
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	J. Moringen	<b>% Done:</b>	100%
<b>Category:</b>	Socket Transport	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	rsb-0.7		

#### Description

Nao is the host (192.168.179.41) and a client pc (192.168.179.24).

On nao, multiple RSB streamer components are running in parallel in a single process but they should start up at the same time (probably in parallel).

```
open("/etc/rsb.conf", O_RDONLY) = -1 ENOENT (No such file or directory)
open("/home/languitar/.config/rsb.conf", O_RDONLY) = 3
read(3, "[transport.spread]\nenabled = 0\n\n...", 8191) = 222
read(3, "", 8191) = 0
close(3) = 0
open("rsb.conf", O_RDONLY) = -1 ENOENT (No such file or directory)
open("/etc/rsb.conf", O_RDONLY) = -1 ENOENT (No such file or directory)
open("/home/languitar/.config/rsb.conf", O_RDONLY) = 3
read(3, "[transport.spread]\nenabled = 0\n\n...", 8191) = 222
read(3, "", 8191) = 0
close(3) = 0
open("rsb.conf", O_RDONLY) = -1 ENOENT (No such file or directory)
times({tms_utime=1, tms_stime=0, tms_cutime=0, tms_cstime=0}) = 1435337080
mmap(NULL, 8392704, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS|MAP_STACK, -1, 0) =
0x7f9233a71000
mprotect(0x7f9233a71000, 4096, PROT_NONE) = 0
clone(child_stack=0x7f9234270fb0,
flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PARENT_
CLONE_PARENT_SETTID|CLONE_CHILD_CLEAR_TID, parent_tidptr=0x7f92342719d0, tls=0x7f9234271700,
child_tidptr=0x7f92342719d0) = 30249
eventfd2(0, O_NONBLOCK|O_CLOEXEC) = 3
epoll_create1(EPOLL_CLOEXEC) = 4
timerfd_create(CLOCK_MONOTONIC, 0x80000 /* TFD_??? */) = 5
epoll_ctl(4, EPOLL_CTL_ADD, 3, {...}) = 0
write(3, "\1\0\0\0\0\0\0", 8) = 8
epoll_ctl(4, EPOLL_CTL_ADD, 5, {...}) = 0
socket(PF_INET, SOCK_STREAM, IPPROTO_TCP) = 6
epoll_ctl(4, EPOLL_CTL_ADD, 6, {...}) = 0
connect(6, {sa_family=AF_INET, sin_port=htons(4444), sin_addr=inet_addr("192.168.179.41")}, 16) = 0
recvmsg(6,
```

recvmsg is hanging.

On the node being the server:

```
koerperlos [0] ~ $ netstat -tapnl
(Not all processes could be identified, non-owned process info
```

will not be shown, you would have to be root to see it all.)

Active Internet connections (servers and established)

Proto	Recv-Q	Send-Q	Local Address	Foreign Address	State	PID/Program name
tcp	3	0	0.0.0.0:4444	0.0.0.0:*	LISTEN	3141/naoqi-bin
tcp	0	0	127.0.0.1:4444	127.0.0.1:37871	ESTABLISHED	-
tcp	0	0	192.168.179.41:4444	192.168.179.24:36485	ESTABLISHED	-
tcp	0	0	192.168.179.41:4444	192.168.179.24:36484	ESTABLISHED	-

Second entry is problematic, as all RSB-relevant parts are running in a single process and hence no local network connections should be necessary.

## Associated revisions

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### Revision 5829bc57 - 10/01/2012 05:03 PM - J. Wienke

Lock the creation of Bus instances in the socket::Factory.

Without this locking multiple bus objects can be created by parallel threads for a single endpoint.

fixes #1184

### Revision 85a2a61c - 10/01/2012 05:31 PM - J. Wienke

Backport: Lock the creation of Bus instances in the socket::Factory.

Without this locking multiple bus objects can be created by parallel threads for a single endpoint.

refs #1184

### Revision 205eb583 - 10/01/2012 05:58 PM - J. Wienke

Lock the creation of Bus instances in the socket::Factory

fixes #1184

Without this locking multiple bus objects can be created by parallel threads for a single endpoint.

### Revision 5385b6ca - 10/01/2012 06:04 PM - J. Wienke

Backport: Lock the creation of Bus instances in the socket::Factory.

Without this locking multiple bus objects can be created by parallel threads for a single endpoint.

refs #1184

## History

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### #1 - 10/01/2012 05:07 PM - J. Wienke

- *Status changed from New to Resolved*
- *% Done changed from 0 to 100*

Applied in changeset rsb-cpp|commit:5829bc5735765c912aa07b5ba444baab316a382d.