

## Re: read hang on datagram socket

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*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/hackers/2006-01/msg00337.html>

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- *From:* Daniel Eischen <[deischen@xxxxxxxxxxx](mailto:deischen@xxxxxxxxxxx)>
  - *Date:* Fri, 27 Jan 2006 09:16:08 -0500 (EST)
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On Thu, 26 Jan 2006, Kurt Miller wrote:

> On Thursday 26 January 2006 7:26 pm, Daniel Eischen wrote:  
>>  
>> The modified version does not hang on 5.2. Do you have multiple  
>> interfaces on your 5.4 box?  
>  
> No, the 5.4 box is virtually identical to the 6.0 box. I set them both  
> up at the same time from initial installs for the project.  
>  
> truk@freebsd5-4\$ ifconfig  
> lnc0: flags=108843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 1500  
> inet6 fe80::250:56ff:fe40:451a%lnc0 prefixlen 64 scopeid 0x1  
> inet 172.16.1.36 netmask 0xfffff00 broadcast 172.16.1.255  
> ether 00:50:56:40:45:1a  
> lo0: flags=8049<UP,LOOPBACK,RUNNING,MULTICAST> mtu 16384  
> inet 127.0.0.1 netmask 0xff000000  
> inet6 ::1 prefixlen 128  
> inet6 fe80::1%lo0 prefixlen 64 scopeid 0x2

[ ... ]

>> What happens when you try using non-zero IP addresses and ports?  
>>  
>  
> Setting the ports doesn't effect the problem, however setting the  
> addresses does. It really seems like binding to INADDR\_ANY only binds  
> to loopback address 127.0.0.1 and not all the interfaces.  
>  
> If sock1 is bound to the hostAddress and sock2 connects to sock1 at  
> the hostAddress it works ok. If sock1 is bound to INADDR\_ANY and sock2  
> connects to sock1 using INADDR\_ANY it works. but any mixture of of  
> using INADDR\_ANY with the hostAddress fails.

According to Steven's Network Programming, when binding to INADDR\_ANY, the operating system doesn't assign an address until the first write. This is unlike the port, where using port 0, an ephemeral port is assigned right away. I don't have the book handy right now, so I forgot if the INADDR\_ANY

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behavior is only when you have multiple interfaces or not.

- > Unfortunately, I don't have control over the addresses, the java
- > programs do. This particular jck test binds the first socket with
- > INADDR\_ANY (InetAddress.getByName("0.0.0.0")) and connects the second
- > socket to the first using the hostAddress (InetAddress.getLocalHost()).

You can try sending a byte before getting the address for the port and see if that works. Do you have anything weird, like not having a default route (gateway)?

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DE

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freebsd-hackers@xxxxxxxxxxx mailing list

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- *Follow-Ups:*

- ◆ [Re: read hang on datagram socket](#)  
◇ From: Kurt Miller

- *References:*

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