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Subject: Find an available/free port - code snippet  
Posted by Mountacir on Fri, 31 Dec 2021 12:18:47 GMT  
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Hello,

I needed to get an available/free port for localhost, so I used the code below with a derived TcpSocket class.

I'm wondering if it is possible to implement it in TcpSocket?

```
int TcpSocket::GetFreePort(){

socklen_t addrLen;
int s = ::socket(AF_INET, SOCK_STREAM, 0);

if (s == -1) {
    LOG("Failed to create socket");
}

sockaddr_in sin;
sin.sin_family = AF_INET;
sin.sin_port = 0;

// INADDR_ANY as the default parameter?
//sin.sin_addr.s_addr = htonl(INADDR_ANY);
sin.sin_addr.s_addr = inet_addr("127.0.0.1");

if (bind(s, (const sockaddr *)&sin, sizeof(sin)) == -1) {
    LOG("Failed to bind");
}
addrLen = sizeof(sin);
if (getsockname(s, (struct sockaddr *)&sin, &addrLen) == -1) {
    LOG("getsockname() failed");
}
LOG("port : " << sin.sin_port);

return sin.sin_port;
}
```

Thanks!

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Subject: Re: Find an available/free port  
Posted by [mirek](#) on Sat, 22 Jan 2022 18:14:26 GMT  
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Ausin2029 wrote on Fri, 31 December 2021 13:18Hello,

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    LOG("port : " << sin.sin_port);

    return sin.sin_port;
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```

Thanks!

This is a good snippet of core, but I am not quite sure how is it related to TcpSocket instance?

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**Subject:** Re: Find an available/free port  
**Posted by** [Mountacir](#) **on Sun, 23 Jan 2022 06:56:06 GMT  
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Quote:This is a good snippet of core, but I am not quite sure how is it related to TcpSocket instance?

I started making a plugin for Selenium WebDrivers and i used TcpSocket for the communication. So instead of relying on the default port used by each Driver or randomly assigning one, i made the above code work with TcpSocket.

Should I remove this post and repost in "U++ users applications in progress..." as just a useful code snippet?

Thanks

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**Subject:** Re: Find an available/free port  
**Posted by** [Klugier](#) **on Sun, 23 Jan 2022 18:06:08 GMT**  
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Hello Ausin,

I moved your topic to "U++ users applications in progress and useful code snippets, including reference examples!" subforum.

Klugier

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