
Subject: Re: TcpSocket Connect error

Posted by [steffen](#) on Wed, 12 Mar 2014 16:24:40 GMT

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Thanks Mirek,

But what about the return value? I would expect TcpSocket.Connect to return true, when it has established a connection.

This is definitely not how it works, if the server is not responding.

I looked at the Linux man page on connect and for non blocking connections it says the following:

Quote:EINPROGRESS

The socket is nonblocking and the connection cannot be completed immediately.

It is possible to select(2) or poll(2) for completion by selecting the socket for writing.

After select(2) indicates writability, use getsockopt(2) to read the SO_ERROR option at level SOL_SOCKET to determine whether connect() completed successfully (SO_ERROR is zero) or unsuccessfully

(SO_ERROR is one of the usual error codes listed here, explaining the reason for the failure).

I have attached a small example showing the error and the solution mentioned in the man page:
When connecting to a non existing server, TcpSocket.Connect returns true, but fails on a subsequent write.

I have tested the example on both Windows and Linux, and both systems has the error.

So a solution could be one of these two:

1. Change TcpSocket::SetupSocket() to make a blocking socket:

Change Socket.cpp line 302 to

```
if(fcntl(socket, F_SETFL, (fcntl(socket, F_GETFL, 0)))) {
```

or

2. Implement the getsockopt call to check the connection before returning from RawConnect.

I can make a patch to RawConnect if you would prefer that solution.

File Attachments

1) [TcpSocketTest.7z](#), downloaded 379 times
