

## Re: How is this conditional able to execute?

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*Source:*

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.languages.vb/2005-04/msg03333.html>

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- *From:* "Brett" <no@xxxxxxx>
  - *Date:* Mon, 18 Apr 2005 23:52:35 -0400
- 

OK, sorry. Here are my results in a new application:

```
_b.Length = 50
_s.Length = 50
_s.Length (after trim) = 35
_s = *Nothing to Write from: Development3*
```

This is also the same thing you got. Looks as though we might be on an even playing field, which is good to move forward. What do you suggest at this point?

"Stephany Young" <noone@localhost> wrote in message  
<news:OqeXJwIRFHA.248@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

- > The point of the code I posted was so that you could see if you got the
- > EXACT same results when you executed the EXACT same code.
- >
- > Simply create a new Windows Application project, plonk a button on the
- > form and copy and paste the code I posted into the button Click event
- > handler, run the project, make sure the Output window is showing, click
- > the button and observe the results.
- >
- > If you don't get the EXACT same results a I did, then there's something
- > else going on that either, you don't know about or you aren't telling us
- > about.
- >
- > If you do get the EXACT same results then that will prove that the
- > 'trimming' of the Null characters does actually work as expected on your
- > machine.
- >
- > Remember that the chance of someone contributing to this thread having the
- > same hardware/software configuration as you is practically nil. There may
- > well be something in your configuration that is contributing to the
- > problems that you are observing. If that is the case then it is anyones
- > guess as to what it is.
- >
- > Remember also, that we can only point you in the right direction. You have
- > to do the legwork yourself.

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grrrrr...but yes – you are right.

```
>
>
> "Brett" <no@xxxxxxx> wrote in message
> news:%23KGoTbIRFHA.2132@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
>>I really can't implement what you have tested here. returned data is
>>still "" and its length is 8192 (depending if the 1 is subtracted). There
>>are leading and trailing zeros. I'm doing
>>
>> Dim returndata As String =
>> Trim(Encoding.UTF8.GetString(bytes).Trim(Char.MinValue))
>>
>> and that has no effect. returndata still has a large length and value of
>> "". I follow the above line by this code, which also has no effect:
>>
>> returndata = Trim(returndata.Trim(Char.MinValue))
>>
>> debugger doesn't even run over that code. It skips to the next line.
>> Rather than highlight a whole line, it only highlights parts and only
>> runs on certain lines. That's another story though.
>>
>> Thanks,
>> Brett
>> "Stephany Young" <noone@localhost> wrote in message
>> news:eID0C6BRFHA.3716@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
>>> OK. So far so good
>>>
>>> Using the following:
>>>
>>> Dim _b() As Byte = New Byte(49) {0, 78, 111, 116, 104, 105, 110, 103,
>>> 32, 116, 111, 32, 87, 114, 105, 116, 101, 32, 102, 114, 111, 109, 58,
>>> 32, 68, 101, 118, 101, 108, 111, 112, 109, 101, 110, 116, 51, 0, 0, 0,
>>> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0}
>>>
>>> Console.WriteLine("_b.Length = {0}", _b.Length)
>>>
>>> Dim _s As String = System.Text.Encoding.UTF8.GetString(_b)
>>>
>>> Console.WriteLine("_s.Length = {0}", _s.Length)
>>>
>>> _s = _s.Trim(Char.MinValue)
>>>
>>> Console.WriteLine("_s.Length (after trim) = {0}", _s.Length)
>>>
>>> Console.WriteLine("_s = *{0}*", _s)
>>>
>>> I get the following results:
>>>
>>> _b.Length = 50
>>> _s.Length = 50
```

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```
>>> _s.Length (after trim) = 35
>>> _s = *Nothing to Write from: Development3*
>>>
>>> Which is exactly what I would expect to get from the byte values you
>>> supplied.
>>>
>>> Note that the _s.Trim(Char.MinValue) has stripped the Null character
>>> from the beginning and the 14 Null characters from the end which leaves
>>> 35 'good' characters (see above).
>>>
>>> It is the Null character at the beginning that is causing your string to
>>> be interpreted as an empty string because the Null character is treated
>>> as an 'end of string' marker. Any leading Null characters must be
>>> 'trimmed' off and it is recommended that you 'trim' any trailing Null
>>> characters as well.
>>>
>>>
>>> "Brett" <no@xxxxxxxx> wrote in message
>>> news:%2326T0IBRFHA.164@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
>>>>
>>>> "Stephany Young" <noone@localhost> wrote in message
>>>> news:uYXW0%23ARFHA.3364@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
>>>>> This is getting scary :)
>>>>>
>>>>> Lets take this one step at a time.
>>>>>
>>>>> I'm a bit perplexed as to why a receive buffer would be such a strange
>>>>> size. Could it be that the value of tcpClient.ReceiveBufferSize is
>>>>> actually 8192 (8KB)? If so, then the array declaration should be:
>>>>>
>>>>> Dim bytes(tcpClient.ReceiveBufferSize - 1) As Byte
>>>>>
>>>>> Yes - it is 8192 after putting in the above code.
>>>>>
>>>>>
>>>>> In VB.NET, arrays are 0 based and the value specified is the upper
>>>>> bound of the array as opposed to the number of elements (as in
>>>>> C#.NET).
>>>>>
>>>>> Can you dump the first 50 bytes of the array on the first call.
>>>>> Directly after the line:
>>>>>
>>>>> networkStream.Read(bytes, 0, tcpClient.ReceiveBufferSize)
>>>>>
>>>>> insert:
>>>>>
>>>>> For _i As Integer = 0 to 48
>>>>> Console.Write("{0},", bytes(_i).ToString())
>>>>> Next
>>>>> Console.WriteLine("{0}", bytes(_i).ToString())
```

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>>>>>

>>>>> Add another line:

>>>>>

>>>>> Console.WriteLine()

>>>>>

>>>>> and place a breakpoint on this line.

>>>>>

>>>>> Run the code then copy and paste the result into a post to this

>>>>> thread.

>>>>>

>>>> When returndata is "", the above code gives this:

>>>>>

>>>>>

0,78,111,116,104,105,110,103,32,116,111,32,87,114,105,116,101,32,102,114,111,109,58,32,68,101,118,101,108,111,

>>>>>

>>>>>

>>>>> It will be interesting to see just what characters are arriving.

>>>>>

>>>>> A new byte array is created each time the networkStream object is read

>>>>> so there is nothing from the previous read remaining. Therefore the

>>>>> comment about the 'values shifting' is a red herring. What you are

>>>>> getting is actually what is coming from the networkStream object.

>>>>>

>>>>> Also, is there any particular reason why you are using UTF8 encoding

>>>>> to interpret the data? Is it specified somewhere that the data

>>>>> arriving in the networkStream object is actually UTF8 or is just a

>>>>> stab in the dark?

>>>>>

>>>> Yes – I read on experts-exchange.com that this would work with Trim but

>>>> it didn't. I never removed it because it didn't seem to make a

>>>> difference.

>>>>>

>>>>> On the listener, I haven't declared a size that should be 8KB. I do

>>>>> this:

>>>>>

>>>> Dim networkStream As NetworkStream =

>>>> tcpClientObj.GetStream()

>>>> ' Read the stream into a byte array

>>>> Dim bytes(tcpClientObj.ReceiveBufferSize) As Byte

>>>>>

>>>> If networkStream.DataAvailable() Then

>>>> networkStream.Read(bytes, 0,

>>>> CInt(tcpClientObj.ReceiveBufferSize))

>>>>>

>>>> Dim mystring As String =

>>>> Encoding.UTF8.GetString(bytes)

>>>>>

>>>> Dim sendBytes\_ As [Byte]() =

>>>> Encoding.ASCII.GetBytes(mystring)

>>>>>

>>>> networkStream.Write(sendBytes\_, 0, sendBytes\_.Length)

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```
>>>> sendBytes_.Clear(sendBytes_, 0, sendBytes_.GetLength(0))
>>>>
>>>>>
>>>>>
>>>>> "Brett" <no@xxxxxxx> wrote in message
>>>>> news:%23aS0EDARFHA.2744@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
>>>>>> I tried this but it isn't working either. At one point, the bytes
>>>>>> array has non zero elements up to element 35. returndata has the
>>>>>> value of "" (or so it seems) and length of 8193, same as the bytes
>>>>>> array. Through each pass of the loop, the non zero elements increase
>>>>>> in the bytes array. So it goes from element 35 to 36, 37 and so on.
>>>>>> The values are shifting so that the first 10 are now zero. Then the
>>>>>> first 11, 12, 13 and so on.
>>>>>>
>>>>>> Any other suggestions?
>>>>>>
>>>>>> Thanks,
>>>>>> Brett
>>>>>>
>>>>>> "Stephany Young" <noone@localhost> wrote in message
>>>>>> news:u1TIDb9QFHA.2680@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
>>>>>>> Sorry, my mistake. Null (Chr(0)) is not treated as whitespace by the
>>>>>>> String.Trim Method.
>>>>>>>
>>>>>>> Instead, you can use one of the overloaded String.Trim methods.
>>>>>>>
>>>>>>> Dim returndata As String =
>>>>>>> Encoding.UTF8.GetString(bytes).Trim(Char.MinValue)
>>>>>>>
>>>>>>> Char.MinValue is a constant for 0x00 which equates to Null or
>>>>>>> Chr(0).
>>>>>>>
>>>>>>> This overload removes all occurrences of a set of characters
>>>>>>> specified in an array from the beginning and end of the string
>>>>>>> instance.
>>>>>>>
>>>>>>>
>>>>>>> "Brett" <no@xxxxxxx> wrote in message
>>>>>>> news:uPLcAZ6QFHA.3988@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
>>>>>>>
>>>>>>>> "Stephany Young" <noone@localhost> wrote in message
>>>>>>>> news:%23hNf834QFHA.3988@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
>>>>>>>>> What test are you using to determine that returndata.ToString =
>>>>>>>>> ""?
>>>>>>>>>
>>>>>>>>>> Are you , for example, executing a:
>>>>>>>>>>
>>>>>>>>>>> Console.WriteLine("returndata.ToString = " &
>>>>>>>>>>> returndata.ToString)
>>>>>>>>>>>
>>>>>>>>>>>> and getting the result:
```

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- **Follow-Ups:**
  - ◆ **Re: How is this conditional able to execute?**
    - ◇ From: Stephany Young
  
- **References:**
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    - ◇ From: Brett
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    - ◇ From: Stephany Young
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