

COMP6330 Assessment 2: Sender

Here is the feedback and assessment mark for the Sender assignment.

Please note the marks shown here are provisional as they haven't been checked by a second member of staff yet. Hence it may be a while before they appear on Kent Vision. You'll be notified if any changes are made.

OVERVIEW

The assessment was divided into several categories, each corresponding to a group of related tests:

- 1) Frame encoding: short messages, no tricky chars.
- 2) Frame encoding: short messages, trickier content.
- 3) Frame encoding: short messages, with delimiter chars.
- 4) Message segmentation: longer messages, no tricky chars.
- 5) Message segmentation: longer messages, with delimiters.
- 6) MTU compliance: various message lengths and MTU values.
- 7) Robustness: data valid but near borderline.
- 8) Robustness: various error conditions.

For further details of how your work was marked see:

<https://www.cs.kent.ac.uk/~djb/comp6330/LOCAL-ONLY/general-feedback-sender.html>

TEST RESULTS

Your implementation was marked with the help of a partly automatic test rig. A summary of the results is below.

We regret it's not possible to reveal the specific message strings, MTU values and other conditions used when testing your implementation. This is because we may wish to use a similar assignment in the future.

Each line in the results summary consists of several fields:

- test group number and part
- whether sendMessage passed or failed
- how sendMessage exited (see key at end)
- diagnostic codes (if any, see key at end)
- error message returned (e.g. if exception thrown)

TEST RESULTS SUMMARY

Test 1 : Frame encoding tests: short messages, no tricky characters
1a : Pass (Exit=N)

1b : Pass (Exit=N)
1c : Pass (Exit=N)
1d : Pass (Exit=N)
1e : Pass (Exit=N)
1f : Pass (Exit=N)

Test 2 : Frame encoding tests: short messages, trickier content

2a : Pass (Exit=N)
2b : Pass (Exit=N)
2c : Pass (Exit=N)
2d : Pass (Exit=N)

Test 3 : Frame encoding tests: short messages containing delimiters

3a : Pass (Exit=N)
3b : Pass (Exit=N)
3c : Pass (Exit=N)
3d : Pass (Exit=N)
3e : Pass (Exit=N)
3f : Pass (Exit=N)

Test 4 : Message segmentation tests: longer messages, no tricky characters

4a : Pass (Exit=N)
4b : Pass (Exit=N)
4c : Pass (Exit=N)
4d : Pass (Exit=N)
4e : Pass (Exit=N)

Test 5 : Message segmentation tests: longer messages containing delimiters

5a : Pass (Exit=N)
5b : Pass (Exit=N)
5c : Pass (Exit=N)
5d : Fail (Exit=E; Diags=ANE; ErrMsg="String index out of range: 1")
5e : Fail (Exit=N; Diags=UFD,EDB,MC,REM)

Test 6 : MTU compliance tests: various message lengths, various MTU values

6a : Pass (Exit=N)
6b : Pass (Exit=N)
6c : Pass (Exit=N)
6d : Pass (Exit=N)
6e : Pass (Exit=N)

Test 7 : Robustness tests: data valid but near borderline/extreme

7a : Fail (Exit=I; Diags=EMF,ANE; ErrMsg="Error: Transfer Size Too Small")
7b : Pass (Exit=N)
7c : Fail (Exit=E; Diags=ANE; ErrMsg="String index out of range: 1")
7d : Pass (Exit=N)

7e : Pass (Exit=N)
7f : Pass (Exit=N)
7g : Pass (Exit=N)
7h : Pass (Exit=N)

Test 8 : Robustness tests: various error conditions

8a : Fail (Exit=I; Diags=EMF,EHI; ErrMsg="Error: Transfer Size Too Small")
8b : Fail (Exit=I; Diags=EMF,EHI; ErrMsg="Error: Transfer Size Too Small")
8c : Fail (Exit=I; Diags=EMF,EHI; ErrMsg="Error: Transfer Size Too Small")
8d : Fail (Exit=N; Diags=ENT)
8e : Pass (Exit=E; ErrMsg="Forced ProtocolException thrown by sendFrame")

Key to exit codes

N = Method under test exited normally
E = Method under test threw ProtocolException
I = Method under test exited by improper means

Key to diagnostic codes

ANE = Abnormal exit but no error condition existed (i.e. test data was valid)
EDB = Expanded field delimiter broken (;; split across two frames)
EHI = Error detected but handled incorrectly (should throw ProtocolException)
EMF = sendMessage passed string containing error message to sendFrame
ENT = Error condition existed but was not trapped (or not handled correctly)
MC = Message corrupt (error in content/format of message segment(s))
REM = Spurious additional character(s) found after end of message
UFD = Unexpanded/spurious field delimiter ; in message segment

Final mark: 87 out of 100