

Program 5 Test

Test 1 – wind:4001 (50 points): Server randomly sending location additions/deletions

1. Run with no arguments, three arguments, and two arguments with bad server name: Verify useful error/usage messages.
2. Run client against server with correct arguments:
 - a. Observe correct location addition and deletions printed to console
 - b. Verify deregister is sent after typing “quit”

Verify send of deregister upon quit

Poor coding: Check for limited datagram sizes

Verify random query ID in code: -5

Test 2 – wind:4002 (10 points): Server sends register message in stream of location additions/deletions

The client should print “Unexpected message type” to error console and then receive additions and deletions

Test 3 – wind:4003 (10 points): Server sends elongated location addition/deletion packet and then normal

The client should print “Unable to parse message: <specific message>” to error console and then receive additions and deletions

Test 4 – wind:4004 (10 points): For register, server sends first ACK with bad ID and second ACK with good ID

The client should print “Unexpected MSGID” to error console for the first ACK, retransmit registration (after 3 second delay), and then receive additions and deletions

Test 5 – wind:4005 (10 points): Server sends message with bad code followed by location additions/deletions

The client should print “Unexpected code” to error console and then receive additions and deletions

Test 6 – wind:4006 (10 points): Server sends error message in stream of location additions/deletions

The client should print error message to error console and then receive additions and deletions

0 if program does not compile

Take off points for poor coding practices

- 2 unused include/import or unjustified include/import.* or import.* w/o > 4 matching classes
- 10 for poor commenting
- 2 for each unjustified numeric constant
- 5 bad submission
- 1 for each section of commented code
- 5 if violate coding convention
- 5 incorrect command-line parameters/usage message
- 15 encoding or line ending problems