

EE450 Project Typo Correction and Reminder

Typos:

[Typo] Deadline: **Friday, Nov 16th**, 11:59 pm. (It's Thursday in pdf, typo)

[Typo] The unit of Velocity in Table 1 shows (10^7 **Km/s**). It is a typo. The unit should be (10^7 **m/s**). This applies to all the databases.

[Typo] At the bottom of page 3: it says: “<LINK_ID>, <SIZE>, <POWER> will be three **integers**.” Only <LINK_ID> and <SIZE> are positive integers. **<POWER> can be negative non-integer number.**

Reminders:

1. Please round all delays to the **2nd** decimal place, in unit **ms**.
2. The unit of file size <SIZE> is in **bits**.
3. The input signal power <POWER> is in unit **dBm**.
4. TAs will use different databases and their designed inputs for grading your projects.
5. The range of the three input parameters <LINK_ID>, <SIZE>, <POWER> will be reasonable (no extremely large or small inputs). For the <SIZE>, it will not be larger than **1GB** (**Note: Giga-Bytes**). Make sure your code can handle this.
6. The size of database_a and database_b (each) will not be larger than **10MB**. Make sure your code can handle this.
7. You don't need to have exact functions "compute" and "search" in your code. Just need to implement the required functionalities.
8. Your client should terminate itself after all done. And the client can run multiple times to send requests. However, the backend servers and the AWS should keep running and be waiting for another request until the TAs terminate them by Ctrl+C. If they terminate before that, you will lose some points for it.

9. Please do remember to close the socket and tear down the connection once you are done using that socket.

10. The name of your executable output is "filename + output", e.g., the output for *aws.c* or *aws.cpp* is *awsoutput*. This applies to all except the client. For the client, the output is *client*.

11. For the port numbers shown in the section "Example Output to Illustrate Output Formatting", please note that the number in the example output is for display only, not a real result, which means the number there are just some dummies and may not satisfy the requirements specified in the project.

12. You only need to consider the case of one match (either in database_a or database_b) and no match. You don't need to worry about the case of more than one matches (and/or even like, same *link_id* but different link records).

13. 「The AWS sent link ID=<LINK_ID>, size=<SIZE>, power=<POWER>, and link information to Backend-Server C using UDP over port <port number>」,

This port number refer to the AWS's port number, not the server C's.

14. Make sure you round the total delay **AFTER** adding the **original (un-rounded)** T_{trans} and T_{prop} . Do NOT sum rounded T_{trans} and rounded T_{prop} as your total delay.

15. Please don't worry about any error message after ctrl+C.

16. The code examples in Chapter 6 and explanation of functions in Chapter 9 Man Page of Beej's Guidance could help you a lot.

Best,

The EE450 Team.