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BLUE TEAM 2010

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DAILY REPORT #2

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Introduction

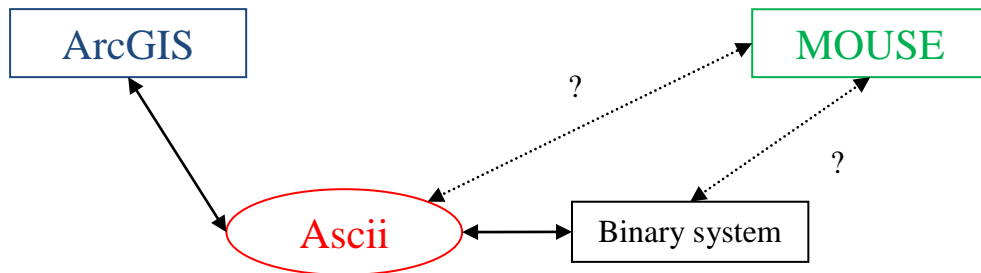
This report is presenting the daily work that the blue team has realized on Saturday August 14th.

I. Achievements

This part is explaining the work that we have achieved since the last meeting for each sub-team.

A. MOUSE sub-team

The MOUSE sub-team (Masahiro, Hyeongjun and So Young) has realized some work to understand the way MOUSE is working:



One of the first priorities will be then to understand how we can use the ascii in MOUSE and in the other way and the same thing should be done between the binary system and MOUSE.

Then the team has defined the main inputs to provide:

- . DEM (ArcGIS)
- . Land use (runoff coefficients, imperviousness)
- . Precipitations
- . Sewer pipe network
- . Tidal data

The two steps in the building of the model have been decided and will be the following:

- . SQ (Status Quo): building and running the model with only the actual situation, then calibrate and verify the model with the observed data
- . AP (After Plan): implement the SQ model with the solutions and observe the results after running

B. ArcGIS sub-team

The ArcGIS sub-team (Dongdong) has realized the TIN and has to finish the DEM.

C. Potential solutions sub-team

This sub-team (Maxence and Friedrich) has worked on the different solutions that could be implemented:

- . Roof storage solutions: web data have been gathered to have an idea of the necessary expenses and prices to implement such a solution in the reality and a GIS file has been created to calculate the available surface of the buildings roofs.
- . Another solutions has been proposed, which is to increase the size of the pipes in the downstream and reduce it on the upstream to control the places where the flooding can occur but this solution seems to be too expensive and hard to realize in a practical way, so two options are available: use it anyway as a comparison or just do not considering it.

D. Rainfall data

The problem of rainfall data has been evocated and Pr. HUANG explained us how intensity could be calculated and used to set up the rainfalls for different return periods and then split these data on the whole day considering the hyetograph of 1997 during the worst rainfall event.

II. Objectives

The last step of the meeting was to reorganize the work in the team and define the priorities for the next meeting:

- . Maxence and Friedrich: continue searching for more potential solutions and find data about the solutions that already exist
- . Dongdong: continue working on GIS and finish the DEM
- . Masahiro, Hyeongjun and So Young: continue working on MOUSE and resolve the problems
- . Guillaume: writing the daily reports and upload the website to ensure communication, working on the rainfall data to build the time series files (dfs0), trying to know how the rainfall formula that have been given have been set up (which statistical law, how many years have been used for the observed data and so on)

Conclusion

The next meeting is planned on Monday 16th August.

Contacts

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