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## Mid-term review of C++ project

Name of the project group evaluated

micro-machines-5

C1.1: The implementation corresponds to the selected topic and scope. The extent of project is large enough to accommodate work for everyone (2 p)

Projekti vastaa annettua aihetta ja on myös laajuudeltaan sopiva. 2p

C1.2: The class structure, information hiding and modularization is appropriate, and it is explained and justified in documentation. The file structure corresponds to the class structure (2 p)

Minun näkemyksen mukaan tähänastinen työ on toteutettu suurimmaksi osaksi alkuperäisen suunnitelman mukaan. 1.5-2p

C1.3: Use of at least one external library (in addition to C++ standard library). Comment the appropriateness of libraries and their use. (2 p)

on käytetty ulkoisia kirjastoja. 2p

C2.1: Git is used appropriately (e.g., commits are logical and frequent enough, commit logs are descriptive) (2 p)

Näyttävät olevan 1.5-2p

C2.2: Make or Cmake (recommended) is used appropriately. The software should build easily using these tools without additional tricks. Nevertheless, instructions for building the project should be provided (1 p)

en yrittänyt rakentaa, näytti toimivan tapaamisessa. 1p

C2.3: Work is distributed and organised well, everyone has a relevant role that matches his/her skills and contributes project (the distribution of roles needs to be described) (1 p)

Näyttää olevan hyvin organisoitu. 1p

C2.4: Issue tracker is used appropriately to assign new features and bug fixes (1 p)

oli tyhjä. 0-1p

C2.5: Testing and quality assurance is appropriately done and documented. There should be a systematic method to ensure functionality (unit tests, valgrind for memory safety, separate test software and/or something else.) (1 p)

Ainakin joitakin testeja näkyi olevan. 0.5p

C3.1: C++ containers are used appropriately (including appropriate use of iterators), and justified (e.g., why certain type of container over another) (2 p)

säiliöitä ja iteraattoreita on käytetty 1.5-2p

C3.2: Smart pointers are used in memory management, describe how (1 p)

heti en huomannut onko Smart pointtereita käytetty jossain koodin osassa mutta voi olla että on käytetty. 0-1p

C3.3: C++ exception handling is used appropriately, describe how (1 p)

nopealla silmäilyllä koodista ei löytynyt try-catch rakenteita(muttavoi olla että näitä on käytetty). 0-0.1p

C3.4: Rule of three / rule of five is followed, describe how (1 p)

nopealla silmäilyllä koodista ei löytynyt sellaista tilannetta että on luokassa jouduttu eksplisiittisesti määrittämään destructoria, copy constructoria tai copy assignment operaattoria. 1p

C3.5: Dynamic binding and virtual classes/functions are used, describe how (1 p)

sama kuin edelliset kohdat 0-1p

Other comments and feedback to the evaluated project group.

If you did this review together with (some of) your group members, list the names of the group members here. Everyone needs to turn in a review, either separately or as a group.

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