

Media player 1

1. Main design (6 p)

- 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)

2p, + real time FFT

- 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)

2p

- C1.3: Use of at least one external library (in addition to C++ standard library) (2 p)
 - The library should be either readily installed on Aalto Linux machines, or included as part of the project deliverable such that the program can be easily compiled as pulled directly from git, without additional steps.

2p, used Qt

2. Working methods and tools (6 p)

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

2p, branches used for feature development

- 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)

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)

1p

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

0,5p, The corresponding fixing commit should be linked to the issue when it is closed. (Commit message "Closes #issue_number" links & closes automatically)

- 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)

0.5p, Only system testing done, unit testing missing

3. Use of C++ features (6 p)

- 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)

2p, Qt containers used

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

0.5p,

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

0.5p, one try-catch in the player.cpp

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

0.5p, not needed

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

0.5p

14 pts total

peer review: 3pts (max 3pts)