Minutes of meeting

ALGOSUP - Project room 2 | 01/16/2024

People present:

Name	Rôle
• Mathias GAGNEPAIN	Project Manager
• Guillaume DESPAUX	Program Manager
• Guillaume DERAMCHI	Technical Leader
• Maxime CARON	Software Engineer
• Franck JEANNIN	Client

Client's Additional Project Requirements:

- Possibility to use assembly on real hardware
- Proof of concept

Communication Methods:

- Email preferred for project-related information sharing with the client.
- Email also preferred for questions addressed to reviewers.
- Slack is deemed more useful for ALGOSUP related queries.
- Meeting can be planned for special occasions

Assembly language clarifications:

- Assembly language shouldn't be overly complex but more logical than the existing one.
    - ***Example:*** *MOV -> CPY*
      (Cause the mov instruction doesn't move anything it just COPY value of a register to another one)

- Assembly language itself is not subject to copyright unless using proprietary language without permission (not an issue in this case).

- Suggested to share open-source code with others for validation and feedback.

Virtual Processor:

- Avoid unnecessary instructions; focus on realism for the proof of concept.
- Make it more realistic than possible, it's the proof of concept
- 64 is a bit too big to be recreated in 5 weeks but a 32 bit processor is very interesting and a good challenge.

❖ Virtual Processor is an instruction runner with multiple implementation options.
❖ Multitasking features are out of scope.

Interpreter:

The client recommended to:

- Recommended to use basic C and avoid frameworks for implementation simplicity.
- Emphasized keeping the implementation simple and accessible for everyone.

Project Goals and Documentation:

- Make the language pleasant to understand and to use for individual programmer.
- Define assembly language in the functional specification.
- Consider the type of objectives for the processor.
- Documentation format can be inspired by existing assembly languages.
- Keep our attention on defining the interpreter documentation.