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Project name: Libre-
SOC Cavatools: Power
ISA Simulator

Project number: 2021-
08-071

Most recent payment:
2024-08-30

RfP Details

Date 2024-08-30 at 14:09

**submit-
ted:**

Payment: no

Deliverables review:
pending

**Payment ap-
proval:** pending

Recipient: Luke Leighton

984 Support SVP64 in cavatools

€5500

*Subtask*wrapup

Total amount requested for this task: €5500

Total requested amount in this RfP: €5500

Results:

Top level page detailing main deliverables: <https://libre-soc.org/docs/pypowersim>
Tutorials: https://libre-soc.org/docs/pypowersim_tut

Listed below: each task completed in the NLnet top-level pypowersim project, with references to the relevant reports.

Summary of PyPowerSim Documentation and Related Work:

1. **PyPowerSim Overview**: PyPowerSim is a Python-based simulator for the OpenPOWER ISA, designed to aid in the development and testing of processor instructions. It supports instruction-level simulation for verifying correctness and performance.

[Documentation](<https://libresoc.org/docs/pypowersim>)

2. **PyPowerSim Bug Fixes and Enhancements**: Addressed issues related to instruction decoding and simulation accuracy, improving the simulator's reliability (Bug #758).

[Bug Report](https://bugs.libresoc.org/show_bug.cgi?id=758)

3. **PyPowerSim Tutorial**: A comprehensive guide was created to help developers understand and utilize PyPowerSim effectively for simulating OpenPOWER instructions.

[Tutorial](

soc.org/docs/pypowersim_tut">https://libre-soc.org/docs/pypowersim_tut

4. **Development Logs**: Logged detailed discussions and troubleshooting steps taken to resolve issues during the development of PyPowerSim, focusing on specific instruction implementations.

[IRC Log](<https://libre-soc.org/irclog/%23libre-soc.2023-09-10.log.html#t2023-09-10T18:44:49>)

5. **PyPowerSim Source Code**: The source code for PyPowerSim, including instruction decoders and other components, was maintained and updated to support ongoing development.

[Source Code](<https://git.libre-soc.org/?p=openpower-isa.git;a=blob;f=src/openpower/decoder/isa/pypowersim.py>)

6. **HDL Workflow Scripts**: Scripts were developed to streamline the HDL workflow, ensuring smoother integration between PyPowerSim and hardware development processes.

[HDL Workflow](https://libre-soc.org/HDL_workflow/devscripts)

soc.org/HDL_workflow/devscripts

These accomplishments have significantly advanced the development and usability of PyPowerSim, making it a crucial tool in the OpenPOWER development ecosystem.

Remarks:

Request status

Deliverables approval: pending

Transaction approval: pending

Payment no

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