ECE 497: Special Project Weekly Report

Week 01

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Work We Did

- Set up Virtual machines to have similar environments.
- Clone the ChipYard repository.
- Build the toolchains required.
- Followed documentation's example on how to generate a generic RISC-V chip.
- Used Verilator to simulate the default chip design.
 - ► Ran all tests (make run-asm-tests)
 - Ran all benchmarks (make run-bmark-tests)
 - The default chip design passed all tests and benchmarks successfully.

References



Alon Amid et al. "Chipyard: Integrated Design, Simulation, and Implementation Framework for Custom SoCs." In: *IEEE Micro* 40.4 (2020), pp. 10–21. ISSN: 1937-4143, DOI: 10.1109/MM.2020.2996616.