**Nano8 General Purpose Computer**

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updated 02.04.2025

**User Manual**

Welcome to the Nano8 General-Purpose Computer Project. The goal of this project is to create a general-purpose computer that is simple enough for beginners to understand while maintaining strong performance. Currently, the project is still in its early stages, so this user manual serves more as a progress report—written as if the product were already complete.

The project aims to encompass a wide range of components, including:

* A custom CPU core
* Various computer designs built around the core
* A fully functional operating system
* An assembler and assembly language
* A simple programming language providing some assembly abstractions
* Multiple OS programs and applications
* A simple GPU for graphical applications

It will be implemented as an FPGA soft-core SoC, an emulator, and using TTL logic chips.

Ultimately, this project aims to be both an educational resource and just an enjoyable experience.