

ARMish Processor

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Contents

1	2025/07	1
1.1	2025/07/12	1
1.2	2025/07/13	1
1.3	2025/07/29	1
1.4	2025/07/30	1
1.5	2025/08/03	1
1.6	2025/08/04	2

1 2025/07

1.1 2025/07/12

- Created Github and documentation
- Finished ISA design

1.2 2025/07/13

- Updated ISA design section of documentation

1.3 2025/07/29

- Assembler Research
 - A two-pass assembler sounds simplest

1.4 2025/07/30

- The first-pass portion of the assembler is completed.
- Fixed some issues with the instruction set design
 - Dealing with immediates in the floating point instructions will be done by using fixed point immediates and the converting them to floating point numbers through an instruction.
 - Removed write-back and pre/post indexing bit options for D-type instructions
- TODO: Second-pass portion of the assembler

1.5 2025/08/03

- Updated assembler with formatting option
- Went into more detail for the instruction encoding for add/sub, mul/div, and mac instructions
- TODO: Finish documentation for the remaining instructions and second-pass assembler

1.6 2025/08/04

- Updated documentation detailing new instruction format for floating point types, and instructions that require 4 operands or more.
- Updated D-type instruction details
- TODO: Finish documentation for the remaining instructions and second-pass assembler