# CSIS 3740 – Project 3 (Advanced): MARIE Micro-Computer System

## Phases & Rubric

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| Phase | Description | Points |
| A. Control Logic | Implement SKIPCOND + one extra instruction (CLEAR/ADDI/JUMPI) | 20 |
| B. Assembler | 2-pass with labels + DEC; encode SKIPCOND | 40 |
| C. Trace & Stats | Console/file trace + instruction counts | 30 |
| Documentation | README + comments + example I/O | 10 |
| Bonus | Memory dump / more ops / nicer assembler | +10 |

## Environment

Ubuntu 24.04 (VirtualBox), g++ (C++17)

## Workflow

Compile assembler → convert .asm to .txt → run simulator with --trace.

## Deliverables

Source, .asm, generated .txt, trace.txt, README.