

CptS 422 - Homework #7

Simpletron Machine Language (SML)

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Part III - Acceptance Tests

Acceptance tests that could be performed include testing that Simpletron performs as advertised and in a speedy fashion (example: maximum of two seconds per operand - if it takes any longer than that, the author should probably quit computer science and throw themselves on a sword).

Memory requirements could also be tested. That is, how much RAM is required to do all standard operations at a level the program can handle (ex: how much RAM for 100 operations). This ties in to defining and checking functional requirements.

Concerning the overall performance of the simulator, supporting more instructions would correlate to requiring more memory supporting more memory will require testing more of how memory is handled (a larger range). In reality, adding memory is an annoying process.