Design Plan: Fibonacci

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April 2021

1 Project Summary

The Fibonacci project is an x86 Assembly Program written using Intel syntax. The purpose of the program is receive a positive integer 'n' as input and print the n^{th} Fibonacci number in hexadecimal.

2 Significant Functions

Arguments - Validate 'n' and any feature options used.
(default range for 'n' is 0 - 100)
Main Loop - Iterates through Fibonacci numbers until 'n' is reached.
Next Fib - Calculates the next Fibonacci number.
Print - Prints the n^{th} Fibonacci number.
(One Label for each output variant?)

3 Milestones

1. Calculate Fibonacci numbers
2. Print Successfully
3. Loop until 'n'
4. Features
   (a) -d: base 10 output
   (b) -o: base 8 output
   (c) Extend range to 0 - 300
   (d) Pull n from standard input
   (e) LaTeX documentation
   (f) Man Page