

Systems Programming

Programming Assignment 3

Description

The purpose of this assignment is to design, code, and test a C program performs operations with complex numbers.

Requirements

The following are the requirements of the program:

- The program shall add two complex numbers.
- The program shall subtract two complex numbers
- The program shall find the magnitude and phase of a complex number given in rectangular form, $a + j b$.
- The program shall find the rectangular form given magnitude and phase of a complex number.
- The program shall find the multiplication of two complex numbers.
- The program shall find the division of two complex numbers.
- Given two impedances the program shall calculate the impedance of the parallel combination.

Assignment Submission Requirements

The following are the submission requirements for the assignment:

- The files will be submitted to Canvas
- The flowchart or pseudo code
- The C code with compile instructions in the banner
- The test code with compile instructions in the banner
- A screen shot of a few test cases demonstrating the working solution.

Due: 10-18-2024