Parallel and Distributed Computing

Project Proposal

Group Members

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Project:

1. Newton interpolation (Forward, Backward and Central)
2. Image Encryption and Decryption Algorithm

Objective:

The objective of our project is to check the comparison and working of serial and parallel programming of both newton interpolation and encryption algorithms.

Summary:

The 2 algorithms we will be using to compute serial and parallel are newton difference formula (backward, forward, central) a formula used in numerical computing and a second algorithm which is a secured image encryption algorithm that is processed in parallel .Our system will use RSA algorithm for this purpose. User may submit his image for encryption. Our system now gets the image and converts it into ascii character format before being encrypted. Then we will use RSA algorithm to encrypt the image. Encryption is executed in parallel on multiple threads. Thus, we will encrypt images using secure RSA encryption.