Decentralized Distributed Processing

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Abstract

With the enormous amount of data being collected every day, a single computer's CPU's computational ability to analyze the data and to utilize meaning behind the data is less than satisfactory. In order to mine the rough of the data within certain time constraints, a collection of computers is needed.

The purpose of this project is to produce a medium for distributing the load of enormous tasks to networked peers with varying computing power in an efficient manner.

This will distribute the work load from one computer to other computers within a network of peer computers by sending portions of the data and the proper analytical tools to all of the specified peers while also computing various peer's tasks. Peers can be running on multiple computer platforms such as Windows and Linux.

Procedures and Methods
By being both a server and
client, the application will idle
until a task is given to it, after
which i t will download the data
and the analysis module, or it
will be told locally a task to be
done, and attempt to distribute
the task over the network.

Introduction

Though distributed servers and clusters have existed for a while, there is a lack of sharing, most distributing acts rely on a single task giver, and the peers being enslaved to the server, with little / no reciprocation As the quantity of data and complexity of analysis from individual groups becomes greater, the efficiency current distributed processing units will certainly become less than satisfactory.

Results and Conclusion Currently the application is able to generate the necessary threads as well as begin to communicate with its peers

