Virtual Geographical Space Visualization based on Graphics Cluster using Hybrid Algorithms.

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Abstract

Modeling and visualization of virtual geographical space involves high power computation resources and complex models. In this article I will describe some experiments on the solutions supported by the Equalizer graphics cluster to provide remote visualization and fast distributed processing. The performance is evaluated for various cluster configurations and spatial data models. The research concerns as well with demonstrating the efficiency and flexibility of hybrid algorithms from the point of view of the cluster graph and remote visualization. In terms of practical and theoretical analysis, it is realized a comparison to what we find in the literature.