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graphics processing unit (GPU) has been adopted to accelerate sparse graph processing algorithms such... Platform. The current version of Medusa is implemented using the following platform.

...

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work for parallel graph processing on graphics processors (GPUs). Medusa enables developers to leverage the massive parallelism and other hardware features of GPUs by writing sequential C/C++ code for a small set of APIs. This simplifies the implementation of parallel graph

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processing on the GPU. The runtime
system of Medusa automatically

Parallel Graph Processing on Graphics Processors Made Easy

work named Medusa to simplify
programming graph processing algorithms
on the GPU. Inspired by the bulk

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Synchronous parallel (BSP) model, we develop a novel graph programming model called “Edge-Message-Vertex” (EMV) for fine-grained processing on vertices and edges. EMV is specifically tailored for parallel graph processing

Medusa: Simplified Graph Processing

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Medusa offers a small set of user-defined APIs and embraces a runtime system to automatically execute those APIs in parallel on the GPU. We develop a series of graph-centric optimizations based on the architecture features of GPUs for efficiency. Additionally, Medusa is

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System extended to execute on multiple GPUs
within a machine.

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Medusa A Parallel Graph Processing
Medusa is a parallel graph processing system on graphics processors (GPUs). The core design of Medusa is to enable developers to leverage the massive parallelism and other hardware features of GPUs by writing sequential C/C++ code for a small set of APIs. This simplifies the

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This paper demonstrates Medusa, a programming framework for parallel graph processing on graphics processors (GPUs). Medusa enables developers to

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leverage the massive parallelism and other hardware features of GPUs by writing sequential C/C++ code for a small set of APIs.

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2.1 Graph Processing. Parallel algorithms have been a classical way to improve the performance of graph processing. On multi-core CPUs, parallel libraries such as MTGL [7] have been developed for

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System On Graphs. Similar to Medusa, MTGL offers a set of data structures and APIs for building graph algorithms. The

Medusa: Simplified Graph Processing on GPUs

Graph processing algorithms are often

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System On Graphics inherently parallel GPUs consist of many processors running in parallel But... writing this code is hard. The Solution... Medusa is a C++ framework for graph processing on (multiple) GPUs ... High programmability (expressive) Related Work MTGL Parallel graph library for multicore CPUs Pregel

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