



US008719374B1

(12) **United States Patent**
Reiz

(10) **Patent No.:** **US 8,719,374 B1**
(45) **Date of Patent:** **May 6, 2014**

(54) **ACCESSING LARGE DATA STORES OVER A COMMUNICATIONS NETWORK**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 33 days.

(21) Appl. No.: **14/031,574**

(22) Filed: **Sep. 19, 2013**

(51) **Int. Cl.**
G06F 15/16 (2006.01)

(52) **U.S. Cl.**
USPC **709/217**

(58) **Field of Classification Search**
USPC 709/217
See application file for complete search history.

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(57) **ABSTRACT**

A method for facilitating access to a large data store is disclosed. The method includes reading the large data store, allocating a heap of at least 100 megabytes in a first memory, and storing the data store in the heap, wherein a memory address is associated with each memory element in the heap, and wherein each memory address comprises a base address unique to the first memory and an offset value from the base address. A second server allocates space in a second memory and stores a particular group of memory elements from the first memory in the second memory. Next, a graphics processing unit calculates new memory addresses for each of the memory elements in the particular group by adding a new base address, unique to the second memory, to the offset value of each memory address, and transmits the new memory addresses to the second memory.

19 Claims, 6 Drawing Sheets

