

Abstract

To provide a novel data structure that enables a meaning of a numerical value and numerical data to be identified even when there is no protocol specification. A pair of logical data structures constituted of: a logical database constructed in a database server in which numerical data including a plurality of numerical values associated with a timestamp is recorded; and a data identification ID uniquely identifying an attribute of the numerical values constituting the numerical data. The data identification ID includes a unit ID constituted of a character string of at least two bytes defining a unit of the numerical data, and an item ID of at least four bytes and made up of an item number, the item number being constituted of an integer value of at least two bytes for defining a type ID of at least two bytes for defining a type of the numerical data and for uniquely identifying the type ID, and the type ID, the unit ID is associated with a name and a unit character string, and the type ID includes at least a character string corresponding to each type ID and the unit ID.