

DATA ENCODING METHOD, DATA DECODING METHOD, AND RELATED APPARATUS

ABSTRACT

A data encoding method and a data decoding method are provided and are applied to the data coding field. The method includes: obtaining a target symbol; obtaining, based on a first mapping relationship, first information and second information that correspond to the target symbol, where the first information and the second information are obtained based on probability information corresponding to the target symbol; obtaining first encoded data through a first operation based on the first information and status information of an encoder; and updating the status information through a second operation based on the second information, to obtain second encoded data. The first encoded data and the second encoded data are used to obtain an encoding result of the target symbol, and the first operation and the second operation do not include a division operation. In this application, index information in an encoding table includes only symbols, and a mapped object includes only the first information and the second information. This is equivalent to reducing memory usage in the encoding table, avoiding an operation that consumes a large amount of memory, and balancing memory and a delay.

FIG. 6