DATA PROCESSING SYSTEM, DEVICE, SECONDARY STORAGE DEVICE, AND RECORDING MEDIUM

ABSTRACT

The present invention provides for the efficient execution of I/O commands (101-108) in a secondary storage device. The tags of the I/O commands (101-108) which are issued from a data processing device to a secondary storage device comprise the tag A part and the (101-108) tag B part (109-116). When an I/O command (101-108) is received from the data processing device, if it is shown by the tag B part that the I/O command (101-108) is the first command in an I/O command group, or alternatively, when an I/O command (101-108) having the same tag A part value is not stored in the queue, the I/O command (101-108) received is added to the final end of the queue. On the other hand, when an I/O command (101-108) having the same tag A part value is stored in the queue, the I/O command (101-108) received is inserted after the I/O command group having the same tag A part.

Fig.2