Title (en)

MEMORY DEFRAGMENTATION, ESPECIALLY IN A PORTABLE DATA CARRIER

Title (de)

SPEICHERDEFRAGMENTIERUNG, INSBESONDERE BEI EINEM TRAGBAREN DATENTRÄGER

Title (fr)

DEFRAGMENTATION DE MEMOIRE CONCERNANT EN PARTICULIER UN SUPPORT DE DONNEES PORTABLE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2004066153A1] The invention relates to a method for memory defragmentation, especially in a portable data carrier, whereby the contents of a source area (32) in a non-volatile, recordable memory are moved into a target area (34). In this context, the data contained in the source area (32) is transmitted as a block into the target area (34), the successful transmission of each data block (36, 38, 40) from the source area (32) to the target area (34) is recorded in a management data area (30) in such a way that it is secure in the event of interruption, and the size of the transmitted data blocks (36, 38, 40) is established according to the offset between the source area (32) and the target area (34) in such a way that the blocks are no larger than the size of the offset. The invention also relates to a computer program product and a portable data carrier having corresponding characteristics. The invention provides a technique for memory defragmentation which ensures data integrity even in the event of unforeseen interruptions and is also highly efficient under typical conditions of application.

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