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METHOD FOR COMPRESSING AND DECOMPRESSING DATA FILES

ABSTRACT

A method is disclosed for decompressing in-place an adjusted monotone compressed file having a first portion containing com-pression codewords and a second portion containing plain text, into a decompressed file having a size and containing plain text. The method comprising the following steps. First, a memory buffer (100) is allocated having the size of the decompressed file. Then the adjusted monotone compressed file (120') is stored in the bottom (120) of the buffer. Finally, the compression codewords in the first portion of the adjusted monotone compressed file are decom-pressed to produce plain text of a corresponding portion of the decompressed file in the top (140) of the buffer. A method is also disclosed for compressing a source file into an adjusted monotone compressed file. The method comprises the following steps. First, the source file is monotone compressed into a compressed file containing compression codewords. Then the compressed file (120') is adjusted to produce an adjusted monotone compressed file having a first portion (124) containing compression codewords and a second portion (126) containing plain text.

Fig 6