

METHOD AND APPARATUS FOR PERFORMING ADAPTIVE DATA COMPRESSIONS

ABSTRACT

A method for encoding an input data stream of source symbols to produce an output sequence of pointers is disclosed. An initial part of the input data stream is encoded as a **LITERAL_POINTER** by a compressor(10). A **LITERAL_POINTER** includes at least one data byte from the data stream. A subsequent part of the input data stream is encoded as **COPY_POINTER**. The **COPY_POINTER** includes a count and a displacement pointing to a history-buffer within the compressor (10). All succeeding data bytes from the input data stream are encoded as **LITERAL_POINTERS** and **COPY_POINTERS** in an alternating fashion, such that an encoded output sequence output by the compressor (10) includes a string of pointers alternating between **LITERAL_POINTERS** and **COPY_POINTERS**.

Fig. 1a