Compression Schemes for Bitmap Indices in Data Warehouses

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Abstract. This paper is an overview of compression schemes for bitmap indices used in data warehouses. The BBC and WAH compression schemes are discussed and compared with the general purpose compression scheme GZIP. A technical specification for BBC and WAH is provided and the differences between them are discussed. A possible new direction in which specialized compression schemes may develop is also presented.

Key words: data warehouses, bitmap indices, data compression, fills, tails, run-length encoding, BBS, WAH