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Abstract

H. 264/AVC is the most popular standard of video compression and decompression today, encapsulating all the advantages of MPEG as well as VCEG, both of them having their own independent codecs. The software used for compression and decompression is JM [Joint Video Team (JVT) of ISO/IEC MPEG & ITUT-T VCEG] version 18. 2. This paper is a study of H. 264 codec. The yuv file is first encoded to h. 264 format. Some other output files are also generated, which are useful for overall analysis of the input yuv file or sequence. These files help us to analyze parameters like PSNR, sequence parameter set, picture parameter set, information about different frames as regards slices and macroblocks. In this paper, all the

three profiles (baseline, main and extended) are operated for the sequence (foreman_part_qcif.yuv) with one reference frame. A quantization parameter for the I, P and B slices is taken as 30. The graph of bitrate vs. PSNR (rate distortion curves) in all the three profiles show a striking similarity as can be seen in figures shown below.

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Index Terms

Computer Science

Performance Evaluation

Keywords

H. 264 Psnr Compression Decompression Profiles Performance Et. Al.

