

ABSTRACT

The development of telecommunications technology is rapidly increasing nowadays. It makes the demand for video communication is needed. To meet the demand we need a coding that can provide good quality video, which can be delivered with low bit rate until later in the client side with a quality not inferior to the original video.

This allows the presence of coding techniques that have been recommended by ITU-T today is an advanced video coding (AVC) standard known as H.264 or MPEG 4 part 10 that has dominated the community of video coding standards in recent years. With H.264 encoding low bit rate transmission can be fulfilled with the risk of trade-off (loss of quality resulting video).

This thesis will analyze the performance on the baseline profile encoding in H.264 Slice Group in Mobile Ad hoc Network (MANET). Parameters to be measured to assess the resulting video quality are *PSNR*, *delay*, *jitter*, *throughput*, *packet loss*, dan *MOS* which the testing will performed in a MANET. The method used in this thesis is the literature review, simulation and analysis.

Conclusions obtained in this study are the more slice on slice grouping at baseline profile in the H.264 the better results we get which we can see at *PSNR* value. Streamed video can clearly watch by people.

Key words: Baseline profile, Slice Group, MANET