

## ABSTRACT

The Internet Protocol Television (IPTV) service will continue to grow up in view of the growing demands and needs of the community for video quality. The request encourages service providers to find a method to address the issue. Video compression method is a great way to provide the best video quality for users. H.264 / AVC and VP6 are compression methods developed by ISO / IEC Moving Picture Experts Group (MPEG) and Google.

In this final project, H.264 / AVC and VP6 compression method will be tested on IPTV video streaming service. This test is performed to find out the results of the compression method at different IPTV video streaming resolutions.

From the IPTV service simulation measurement results, using the compression method can reduce the load on the network by 50% due to the file size that is passed by 580 Mb and 520 Mb. The throughput obtained on H.264 / AVC or VP6 compression video has exceeded 50%, and also the storage capacity savings can reach more than 50%. But for VP6 compression time requires longer duration than H.264 / AVC.

*Keywords : Internet Protocol Television (IPTV), throughput, H.264/AVC, VP6*