ABSTRACT

Information and communication technology (ICT) has made progress driven by innovation and expansion of the network based on Internet Protocol (IP) with a variety of new applications and various multimedia services. Progresses are marked by the development both side of the media and device. One of the multimedia services that utilize based on IP technology is video-on-Demand. VoD is believed became a competitor in business of subscription television. VoD has many advantages, one of which is to give control to its users. In addition, VoD use based on IP technology, which in terms of development costs is more efficient than development using a satellite or cable. In this final designed an interactive video on demand, video on demand data delivery using unicast, then conducted the test on local network. This experiment is used to determine the value of DF (Delay Factor) and MLR (Media Loss Rate). Test results obtained from the DF value of 2.4. This value is smaller than the existing standards, namely 9 ms - 50 ms. The value of DF is considered good because the default value is used in network that connect online on the internet. Meanwhile testing conducted on local network. From test result obtained the MLR packet_loss value of 0 (zero), it is assumed that no packets are missing.

Keywords: Video on demand, Unicast, Delay Factor, Media Loss Rate