

## **ABSTRACT**

Streaming is a popular multimedia technology for internet application user. Now, streaming is not only available for notebooks and PC's, even cell phone and PDA are available to do this. Streaming can be available in two medias, which is video streaming and audio streaming, and also available for audio and video streaming.

Lately, audio streaming are being more developed. We could call this application as internet radio. This radio broadcast via internet much more attract people to hear, because its available everytime and everywhere.

In this final Project, i will do radio streaming broadcast realization process using FreeBSD as streaming server and using IPv6 as communication process between client and server. The Ipv6 usage will make the possibility for using this application furthermore. Considering Ipv4 addressing limit, then realization process with IPv6 will be very supporting in development for multimedia application.

Measurement result from this multimedia application will be the reference as modification from the application before which using IPv4 as communication process. The conclusion that can be depicted are it can be proofed that IPv6 have a better quality then IPv4.

Keywords : IPv6, IPv4, Streaming Audio, Radio Broadcast, FreeBSD