

ABSTRACT

The development of telecommunication nowadays requires a flexible system in multimedia services, so we need an integration of data and voice services to support it. CDMA IRMA is one of the system that is offered to handle this problem. IRMA's system is access random method that using silent condition in voice chanal, but when the voice call is full, it makes the performance of the system will be down.

In this final project we analyze the performance of IRMA and CDMA IRMA in only traffic data but also in multitraffic. It can be seen by the result of graph that after CDMA get involved in IRMA's system, CDMA IRMA up to 30 % from the original system (IRMA). It means that CDMA has a big part to minimize inhibit effect in IRMA's system.

Traffic model that is used to analyze activity of the system is using Binomial-Engset model, because we can make an assumption that it has limited input and services.