

## ABSTRACT

In the telecommunication technology, evaluation of traffic is needed to establish quantities of resources (channel, trunk, etc) are needed for quality of standart (QoS). So far, resources that supplied were not complete at the busy timing or peak session. So, many call are rejected or pending at the channel everyday that called *Probabilitas Blocking*.

This final examination is intended for traffic evaluation when busy timing or peak time, that are start from H-3 until H+3 at the Idul Fitri 2008. Traffic evaluation is done to know necessity of resources that is needed at the busy timing, so it will help the operator to increment the resources so that all servicing can be done.

Voice traffic evaluation result in east java region's central trunk during Idul Fitri 2008, is the fact that the use of trunk during POCC peak time is exceeded the target value, that is 80 % based on key performance indicator. In this thesis the amount of overflow and circuit to be served are evaluated. The methode for analyzing is using Wilkinson's overflow methode.

The use of wilkinson's methode with erlang B and Wilkinson's application is chosen to simplity the calculation. The result is that the most busy central is madiun central, so this central needs some circuit addition approximately 200 circuits.

*Keyword : Voice Traffic, EWSD Trunk Exchange, Erlang B, Overflow, Wilkinson Method*