

ABSTRACT

The title in this mini thesis is "Analysis Quality of Service CDMA by FPLS (Fair Packet Loss Sharing) algorithm". In this mini thesis, we will analysis how is the scheduling mechanism with FPLS algorithm will guaranteed quality of service requirement.

Code Division Multiple Access (CDMA) technologies make much more user is possible to access the network together. However, high utilization of the scarce wireless bandwidth often means that the system resources can not accommodate the traffic loads from time to time, and some packets have to be dropped occasionally. By the properly scheduling mechanism, using of limited resource utilization can be arrange to give satisfy services to each users. In this mini thesis, The FPLS algorithm is proposed as a efficient scheduling mechanism to give alternative solution. Verification method apply to re-examine theories and explorative method to make further development of the algorithm.

Some of the previously scheduling mechanism always could be guaranteed services quality to the constantly traffic rate, but the burstiness traffic will be experience a lost packet during they bursty period. Using the proposed FPLS, each user experiences a fair share of packet dropping. FPLS use the information of distribution traffic rate and packet loss probability (PLP) to schedule packet of users. The research activity will be done by generate the type of traffic voice and video as a data input to run simulation program that using of the FPLS algorithm. The output of this research is to analysis a trade-off between the service quality and the resource utilization.