

## ABSTRACTION

The internet network has been growing fastly in last 15 years. The growth makes new services appear that need special treatment to keep the quality of that services. In the other side, the internet network has been increasing in number and becomes a global network, resulting congested traffic. As the consequence, we need a methode to give QoS assurance to a service and a way to relieve the delay at the router.

One of the sollution that we can do is applying MPLS and RSVP at internet. The MPLS technology is used to increase network performance by abridge forwarding packet time. Whereas RSVP is used to give QoS assurance.

This final project analyzes the interact of RSVP implementation on MPLS network at QoS (delay and throughput), processor utility and memory utility. The implementation done at PC router with Linux as the operating system.

The implementation result shows that RSVP implementation on MPLS able to give better QoS assurance compared with the network that implement MPLS only.