

**PERFORMANCE TEST COMPARISON OF MULTILAYER OSPF  
ROUTING AND ROUTERS FOR DATA TRANSFER ON COMPUTER  
NETWORKS**

*by*

**Ririanti Amanda Cistalita Sambut  
17030004**

**ABSTRACT**

*In an institution or company to form a computer network, there are several network equipment including routers, switch and access point. This study aims to determine the comparison of performance in sending data by two network equipment, namely 3750 multilayer switch with 2800 router using OSPF (Open Shortest Path First) as a routing protocol. The parameters that used in this test are time, size and speed. Based on these parameters, the data tested are in the form figure, audio and video, each of which contains ten data types and tested three times using the website. The results obtained from testing these two devices then compared to the average value. Based on the comparison results, it is known that the average time value of the 3750 multilayer switch device from the figure is 0,2954 seconds, the audio is 0,2954 seconds and the video is 2,1686 seconds faster than the router 2800. While the average transfer speed of the 2800 multilayer switch in figure 1.7453 Mbps faster than the 2800 router. Overall it can be concluded that the 3750 multilayer switch can be an alternative device to replace the 2800 router function in the network by using the OSPF routing protocol.*

*Keywords: OSPF, Data Transfer, Switch Multilayer 3750, Router 2800.*