Investigation of Different Ethernet Wiring and Different Frame Size to Enhance the Performance of LAN

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Abstract— A computer network that covers only a small area networks abbreviated Local Area Network LAN, is used in campus computer networks, buildings, offices, in homes, schools or smaller. Currently, most LANs based on the IEEE 802.3 Ethernet technology using devices such as hubs and switches, which have a data transfer speed of 10, 100, or 1000 Mega bit /s (Mbps). In this paper, we are investigating the different Ethernet wiring standard and different frame size.

Keyword—Frame size, 10BaseT, 100BaseT, LAN performance, Switch, Hub.



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