Adaptive switching

An **adaptive switch** is a network switch designed to normally operate in cut-through mode but if a port's error rate jumps too high, the switch automatically reconfigures the port to run in store-and-forward mode.[1][2] This optimizes the switch's performance by providing higher speed cut-through switching if error rates are low but higher throughput store-and-forward switching when error rates are high.

Adaptive switching is typically done on a port-by-port basis.

References

1. Dong, Jielin (2007). *Network Dictionary* (https://books.google.com/?id=On_Hh23IXDUC&pg=PA23&dq=adaptive+switching+network#v=onepage&q=adaptive%20switching%20network&f=false). Javvin Technologies Inc. p. 23. ISBN 9781602670006. Retrieved 25 June 2016.
2. "Cray makes its ethernet switches responsive to net conditions" (https://books.google.com/books?id=6xcEAAAAMBAJ&pg=PA8&dq=adaptive+switching+network&hl=en&sa=X&ved=0ahUKEwi1nN6Q9sPNAhVR-mMKHR_sDUEQ6AEIPzAF#v=onepage&q=adaptive%20switching%20network&f=false). IDG Network World Inc. 1 July 1996. Retrieved 25 June 2016.