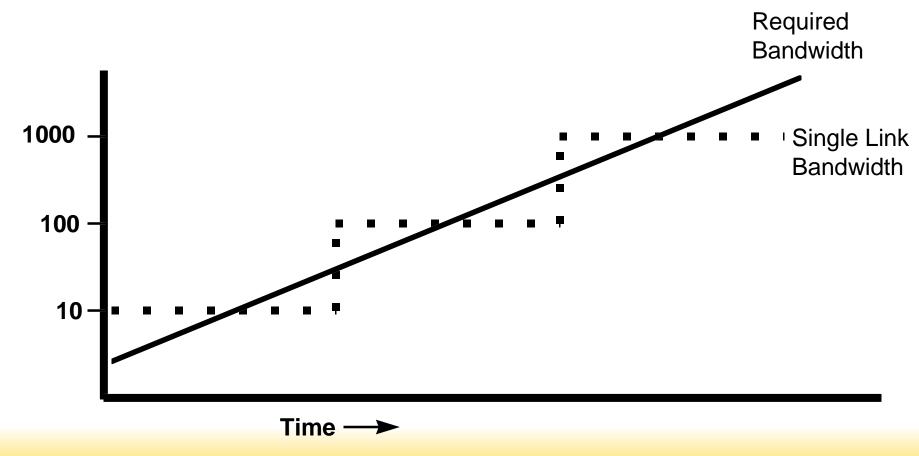
# 1

## **Parallel Path Trunking**

### IEEE 802 Tutorial November 11, 1997

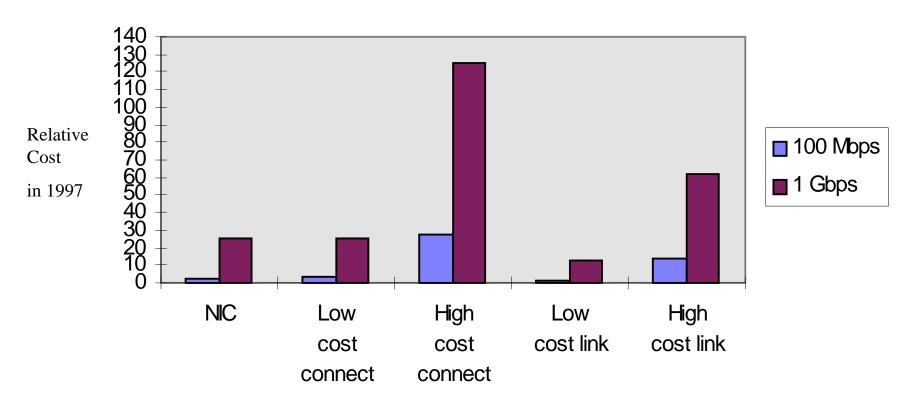
by Paul A. Bottorff
Senior Network Architect
Bay Architecture Laboratory

## Single Link Bandwidth Doesn't Scale With Demand



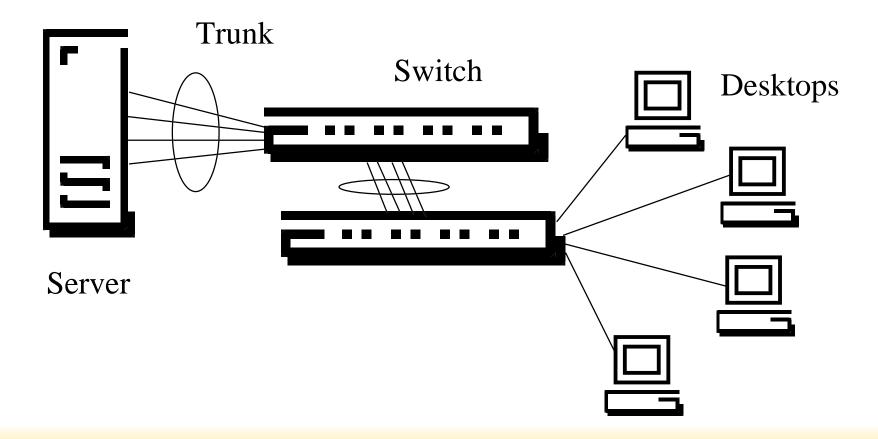
11/11/97

**Parallel Path Trunking** 



Source: Based On Dell'Oro

## Bigger Server Pipes Are Needed For High Data Concentration



- Supports incremental scaling rather than exponential scaling of server and switch ports
- Takes pressure off next generation links for very high performance backbone support
- Provides a cost effective solution for applications which need incremental scaling
- Provides access pipes to servers where data is highly concentrated

#### It Can And Is Being Done



**BayStack 350T Autosense Switch** 



**BayStack 350F Autosense Switch** 

#### **Parallel Path Trunking in 802**

- Specify a DTE to DTE logical link which consists of n point-to-point duplex links
- Preserve the existing service to MAC Clients
- Define the necessary management objects and protocols to control addition and deletion of physical links to and from the logical link

#### **Market Demand is Now**

- Ethernet is most of the market
- Several vendors have solutions
- Solutions will not be interoperable
- The market wants interoperable solutions
- Keep standards work simple and release in stages to catch market window
- Limit to point-to-point links

#### 80/20 KISS = 802 OKISS

- Open
- **K**ombined
- Interconnect to
- Switches and
- Servers