Network Communications Technology

Chapter 21 Network Operating Systems (NOS)

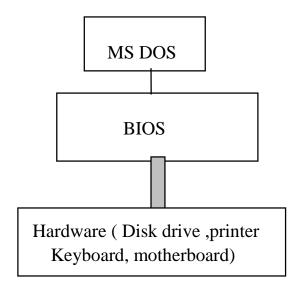
MS DOS and the BIOS

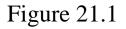
• Basic Input/Output System

- Firmware in ROM
- HW initialize and test
- Hardware control routines
- Establish a low-level API
- Bootstrap

• MS DOS

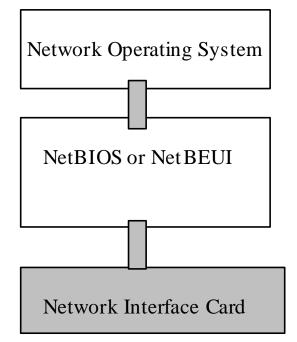
- Written for IBM (PC-DOS)
- Establishes a higher-level API for application programs



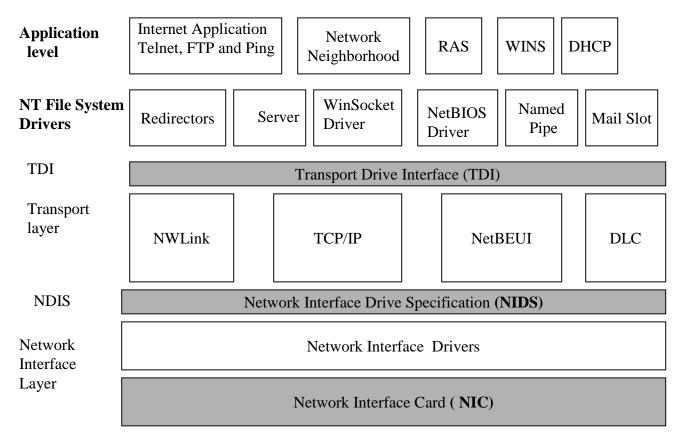


NetBIOS and NOS

Firmware on the NIC



Windows NT Communication Model



Netware and OSI Reference Model

Application	RPC Application	C Application NetWare Core		Application	
Presentation		Protoc	col NetBI	OS	NetWare
Session	RPC		Emula		Shell
Transport		SPX			
Network	IPX				
Link	(DDI	NDIS		
	LAN Drivers				
Physical	Ethernet Tol	Ethernet Token Ring FDDI others			

Netware Loadable Models

