

DEFT NETZ Network Simulation and Analysis Software

List of Experiments – DEFT NETZ

1. Familiarization with DEFT NETZ – Network Simulation Environment
- * 2. Understanding Inter-Layer Communication
- * 3. Physical Transmission Media
- * 4. Network Interface Cards
 5. Router, Switch, Hub, Bridge and other network elements
 6. Familiarization with Topology Design
 7. Designing Ring, Bus, Star, Backbone Networks, LAN Networks Etc
 8. Network Topology Design - Delay Analysis
 9. Data Compression Techniques
- * 10. Sliding Window Protocol
 11. Study Stop and Wait, Selective Reject and Go-Back N ARQ
 12. Analyze throughput and other parameters for CSMA/CD Protocol
 13. Comparison of Poisson, Pareto, Exponential and other Network Traffic Distributions
- * 14. Handling Congestion in Networks using Buffers
- * 15. Handling Congestion using Deflection Routing
- * 16. Testing Protocols
- * 17. IEEE 802.11 MAC - CSMA/CA
 18. Design & Analysis of Packet Switched Networks
 19. Design & Analysis of Circuit Switched Networks
 20. Comparison of Packet & Circuit Switching
 21. Study of Self Similar Traffic
- * 22. Network Failures & Criticality Testing
- * 23. Designing a Simple ATM Network
- * 24. IEEE 802.5 Token Ring Networks
 25. Creating an FDDI Local Area Network
 26. Study RIP, OSPF, BGP and other Routing Protocols
 27. Designing Cellular Networks
 28. Cluster Modeling & Performance Analysis of Cellular Networks
 29. Study of Cellular Network Integrated with ATM Backbone
 30. Understanding a Multicast Network
 31. Study of MOSPF Protocol
 32. Analysis of DVMRP in Multicast Networks
 33. Creating an Optical Burst Switched Network
 34. Functioning of OBS Core and Edge Router
 35. Analyzing JET protocol in OBS Network
 36. Designing a Wireless Local Area Network
 37. Study of Ad-Hoc Wireless Network & LAN Extension
 38. Analyzing CTS, RTS, SIFS, PIFS, DIFS in Wireless LAN
 39. Building a Token Ring Local Area Network
 40. Study the effect of THT, TRT, TTRT, TTHT in Token Ring LAN

* Solved in Demonstration Experiment Manual

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