Argonne National Laboratory Site Report

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- Topics:
  - Security
  - Andrew File System
  - DCE and DFS
  - High Speed Networking
  - IBM SPx

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- **Security**
  - Argonne is actively pursuing distributed computing security
  - Kerberos Version 4 is planned basis for administrative applications
  - Kerberos V4 is basis for AFS authentication
  - Participating ESCC/DCCC Wide Area Authentication Project using Kerberos V5
  - Participating in Oracle SNS Beta test
  - Planning Kerberos as a precursor to DCE
  - Contact John Volmer (708) 252-5449, volmer@anl.gov

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- **Andrew File System**
  - Argonne has implemented a wide area Andrew File System
  - Offer Laboratory wide application libraries
  - Rely on ACLs to restrict access
  - Provide wide area data sharing
  - Planning AFS as a precursor to DFS
  - Contact John Volmer (708) 252-5449, volmer@anl.gov

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- **DCE/DFS**
  - Argonne is establishing a DCE cell with a DFS file system
  - Have acquired PC client
  - Laying plans for implementing a DCE cell
  - Looking for DSF to solve large file problems
    - partitions >2GB
    - files >2GB
  - Contact John Volmer (708) 252-5449, volmer@anl.gov

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- **High Speed Networking**
  - Argonne has installed a high performance backbone to support distributed computing
  - An FDDI backbone is available today
  - Now prototyping ATM high-performance networking
  - Planning SONET multiplexing for flexible data communication distribution system
  - Contact Bob McMahon (708) 252-7270, mcmahon@anl.gov

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- **IBM SPX**
  - The Mathematics and Computer Science Division has installed an IBM SPx
  - 128 nodes with 128 Mbytes/node, 1 Gbyte disk/node
  - 220 Gbyte RAID
  - 6 TByte robotic tape library
  - NSL UNITREE file system
  - CAVE virtual reality environment
  - Contact Tom Morgan (708) 252-5218, tmorgan@anl.gov