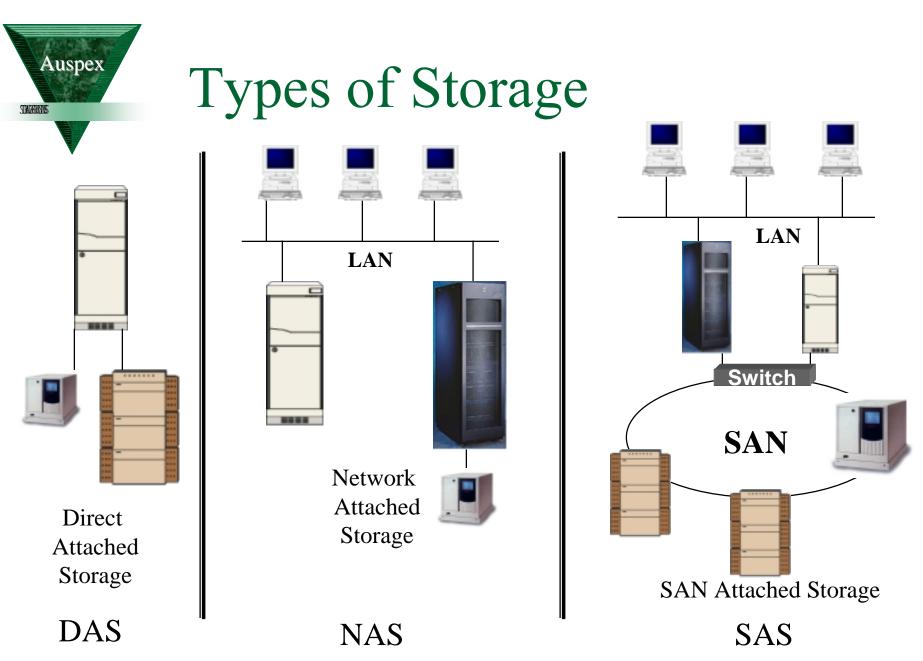


### NAS/SAN Integration Eighth NASA/Goddard Space Flight Center Conference on Mass Storage Systems and Technology March 30, 2000



#### Introduction

- ▼ The types and roles of storage
- ▼ Integrating storage as a business advantage
- Conclusion



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- **v** DAS
- − Low initial cost for <u>local</u> storage & applications
  ▼ NAS
  - Storage consolidation of UNIX and NT files
  - Client access of large files, even on the internet
- ▼ SAS
  - High volume movement of data off the LAN

# Storage is your business

▼ Holds the crown jewels

Auspex

TREFERING

- Intellectual property
- Customer information
- Revenue generating center
- ▼ Disaster prevention
- Replication of data to remote locations



# Benefits of NAS today

- Storage consolidation
- ▼ True data sharing for UNIX and NT
- Scalability and connectivity
- Reduced management costs
- Increased productivity



Auspex

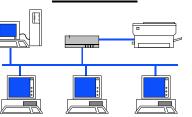
TRAFFIRM

Cut time to market



#### Auspex NAS is the intelligent gateway to the SAN

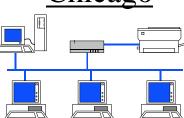
# Data replication/protection with Auspex TurboCopy <u>Austin</u>



Auspex

TREFERSION

Preferred TCP/IP network connection between IO Nodes





Primary Server Location A

Secondary File System for Location B Copy whole file systems, directories, files, or "Snapshots" of live file systems



Primary Server Location B

Secondary File System for Location A

## Remote Data Replication

- ▼ Reduce data loss with remote replicas
- ▼ Effective e-Business content distribution
- ▼ Increase decision support capability
- Reach new markets faster

Auspex

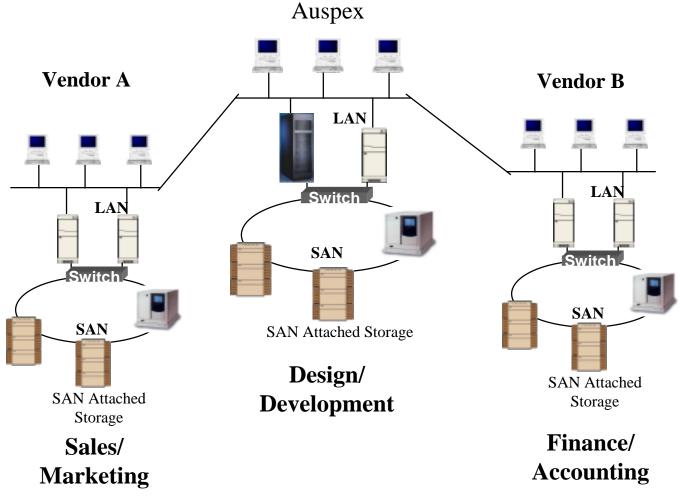
TRAFFER

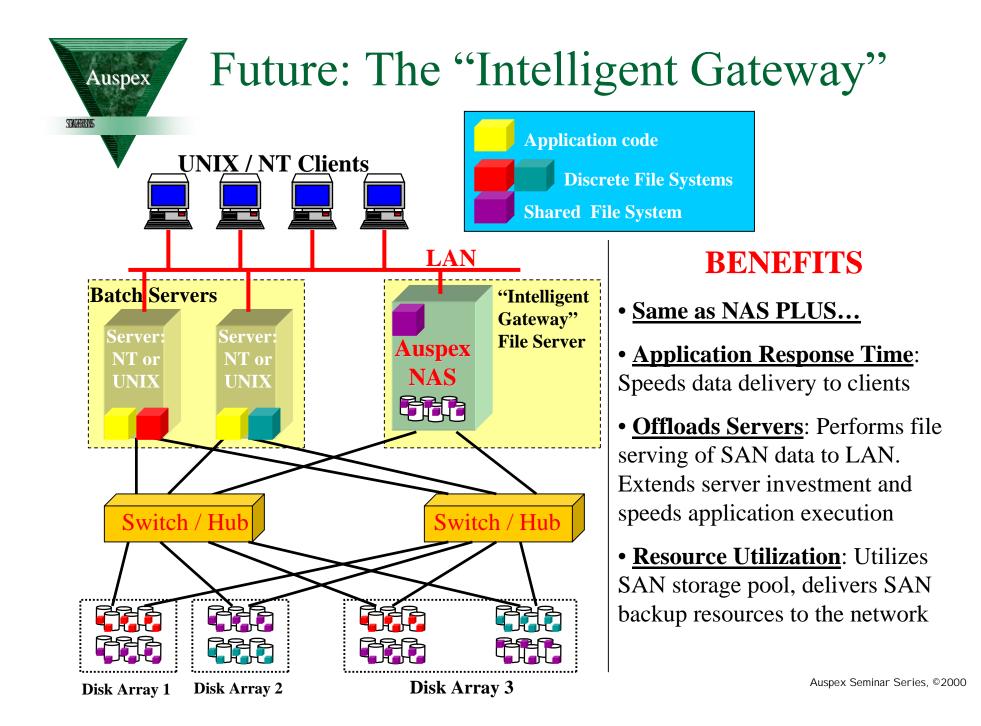
▼ Use data resources better





## Present: Islands of SAN







- **The Current Benefits of SAN**
- Performance improvements on the LAN
- ▼ LAN-free, Serverless backup the "Killer App"
- ▼ Larger networks over larger distances
- **The Future Benefits of SAN**
- ▼ Shared storage pools
  - Assign storage where needed
- Multi-vendor interoperability
  - Switches, storage, management utilities



- Storage in a corporate environment is a powerful tool for corporate competitiveness
- NAS provides several advantages for storage consolidation, increased productivity, and cost reduction