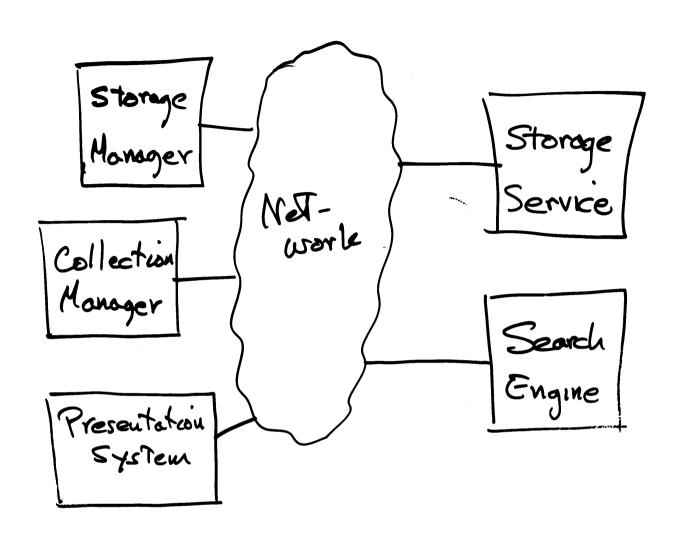
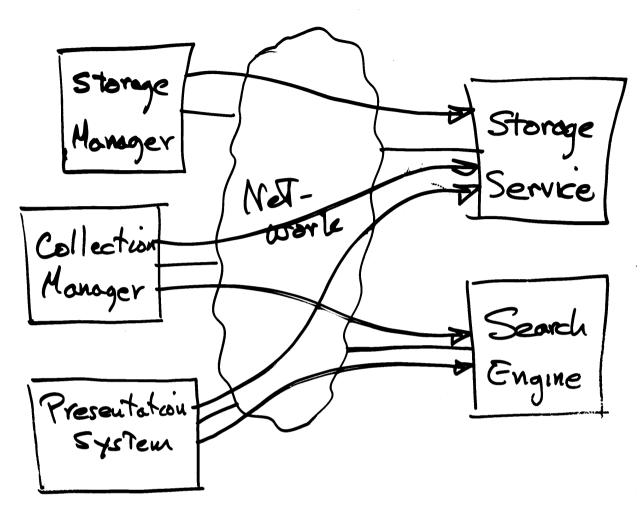
# PROPOSED ARCHITECTURE



ADVANCED TECHNOLOGY

- RAM ZNOEXES
- PAGE IMAGES ON MAG. DISK.

# PROPOSED ARCHITECTURE

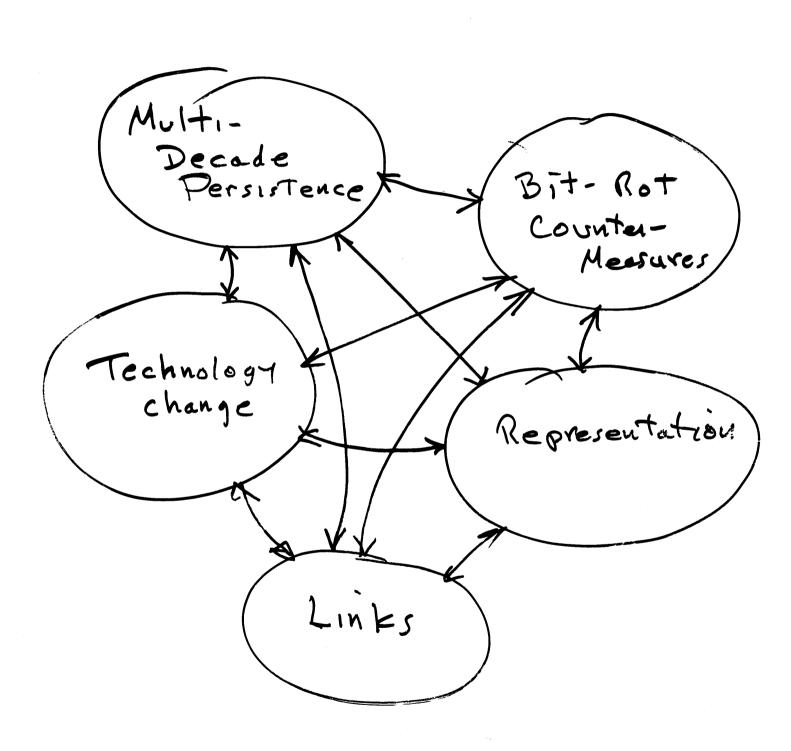


MACHINE- TO-MACHINE PROTOCOL

Like 239.50 but

- State less
- Search separate from Storage
- Front door up Lite

## ENGINEERING TRADEOFFS



### M.I.T. LIBRARY Ca. 1997

Form: Scanned Image, 300 dpi

Madrim: Maquetic disk

Access time: 20 ms.

Space: 750 Pt

Cost: \$10M

#### RESEARCH PROBLEMS

- 1. What is in a link?
- 2. Where to cache what?
- 3. Connecting scanned images with ASCII
- 4. Compression that allows low-resolution extraction
- 5. How to apply client/server architecture?
- 6. Coping with political/administrative inhibitions
- 7. Managing very large storage
  22 Gbyte disks
  70-700 Gbyte optical jukeboxes

#### MANAGING VERY LARGE STORAGE

- 1. Need more than hierarchy if you have 500,000 files. Property lists? Search on properties? On contents?
- 2. Backup: nothing removable is big enough.
- 3. Media obsolescence: by the time the disk is filled it will be obsolete. Need system plan.
- 4. Should compression be a file system operation?
- 5. Does forward error correction fit in?
- 6. Coordination of variant copies.

### Observations

Truth: Multiple versions

Indexing: Provided by

scholars

and idiots

Space: Severe shortage

Conservation: A crisis