Paper Systems

(No way to model load)

Conclusion:
Need real users
Must build system
Research Objective:
"To transform the engineering of large information systems"

Today:

Back-breaking effort of high-powered specialists

Objective:
Routine engineering project
WHY:

- AIRLINE RESERVATION SYSTEMS
- ABM SUPPORT SOFTWARE
- AIR ROUTE TRAFFIC CONTROL
- NATIONAL DATA BANK
- ON-LINE COMPANY

NOT YET ROUTINE PROJECTS
Large Files

Today: $10^{10}$ bits (4-2314's)
Need: $10^{10}$ bits (100 times)

Problems:

Performance
Reliability
Cross Reference
Privacy

All in one design
Memory Modeling

User Load

Sharing

Device Properties

Performance Prediction
Networks

"Information Sharing at a Distance"

- Privacy
- Protocol
- Bandwidth
OTHER RESEARCH TOPICS

- SIMPLIFICATION OF MECHANISM
- MUTUALLY SUSPICIOUS PROGRAMS
- SCALE UP AND DOWN IN SIZE
- MULTI-PROCESSOR INTERFERENCE
Research Objective:

"To transform the engineering of large information systems"

Today:

Back-breaking effort of high-powered specialists

Objective:
Routine engineering project