*DRAFT* Some Imagined Applications of System 33

This series of diagrams and descriptions are the result of our imagining some possible applications for System 33, primarily in the PARC environment. While it is unlikely that we will support more than a few of these applications in the short-term, we want to make sure that the architecture of the system is adequate for handling them all, and that we understand what the requirements are for each, in terms of capabilities, bandwidth, response-time, capacity, features, etc. We're hoping that this will also stimulate people to imagine other possible applications, or variations on the theme.

Each of these is accompanied by a diagram which is suggestive of a 'end-users' model of how System33 would fit as a component within the overall system architecture.
<These are not in any particular order. >

Distributed Document Base

If we can build a "distributed" system33, with the server handling issues of replication of data, index and control across a geographically distributed network, we might be able to use System33, with an appropriate interface, as a replacement for electronic mail for applications like discussion groups, shared work, distribution lists, announcements, etc.

Some prerequisites: integration of mail in and out of System33, in a variety of formats (X.400, including Group 3/4 fax in and out), integration with other 'native' mail systems including unix, xns. The server might be required to 'notice' when documents with certain attributes get added to the description - base so as to trigger notification on user workstations. The workstation view of entry and retrieval would be significantly different.
18 Apr 89 masinter.pa... system33 captions

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Active Messages
SYSTEM COMPONENTS
3/89

GOALS 12/89

CLIENTS

MAC
FULLY INTEGRATED

UP
> EFS
"SYS 33 REF"

X WINDOWS
INTEGRATE (?)

P/CEedar
INTEGRATE

SERVER

PERFORMANCE
< .5 SEC RETRIEVAL
CAPACITY

> 100 GBYTE
RELIABILITY
> 1 WEEK MTBF
INDEX CAPABILITIES

FULL TEXT, COMMERCIAL DB
CONVERSIONS

SUPPORT MOST
PARC APPLICATIONS
ALL COMPRESSION
OTHER

FAX (?)

(KEUKA)

(INCA)

BATCH ENTRY
Most renderings lose info

- Unix
- PC
- Mac
- UP
- Ceda

Structured
- ODA
- TROFF
- Word
- RTF
- UpGraph
- TIOAS
- TEX
- VENTUR
- Word
- UpText
- Garson
- MacWrite
- Tedit
- Sketch

Convert

PostScript
- + Fonts

Interpress
- 2.0
- 2.1
- 3.0

Convert

OCR
- Decomposer

Raster
- X
- TIFF
- RES
- AIS
- CRST
- CRAS

Resolution Conversion
Compress/ Decompress
PROJECT 33

PURPOSE

"SERVICE"

FOR RESEARCH PROJECTS

IMAGING
DOC REC
VIR

FOR END USERS AT PARC

TIC
GRAPHICS SUCS
RESEARCHERS
DOC ACCESS

INTERCHANGE/INTEROPERABILITY
STORAGE
RETRIEVAL

"SCIENCE"

SYSTEM ARCHITECTURES / SCALABILITY
ACCESS CONTROL / SECURITY
DISTRIBUTED PROCESSING

"COLLABORATION"

WITHIN PARC
WITH OTHER XEROX R&D ORGANIZATIONS
GRAPHICS SERVICES

MAC
MACRAW
DIGITAL DARKROOM

SYS 33

GARGOYLE IMAGER
IP
COLOR
DOC SCANNER
FLATBED IMAGE CAPTURE

TICTOC
(TECHNICAL INFORMATION CENTER
TABLE OF CONTENTS)
"Digital Paper" "HyperPaper"
INFORMATION ACCESS

VOICE DOCUMENTS

VOICE ANNOTATION

VOICE MAIL?
DISTRIBUTED
DOCUMENT  BASE

DISTRIBUTED
SYS 33

UUCP
NETMAIL

"DISTRIBUTION LISTS"

REPLACE MAIL AS MEDIUM FOR
DISCUSSION GROUPS
SHARED WORK
DISTRIBUTION LISTS

DOCUMENT MANAGEMENT