ADSM
in the
KFA

2nd ADSM Workshop
Karlsruhe
April 1/2, 1996

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ADSM Backup Server MVS

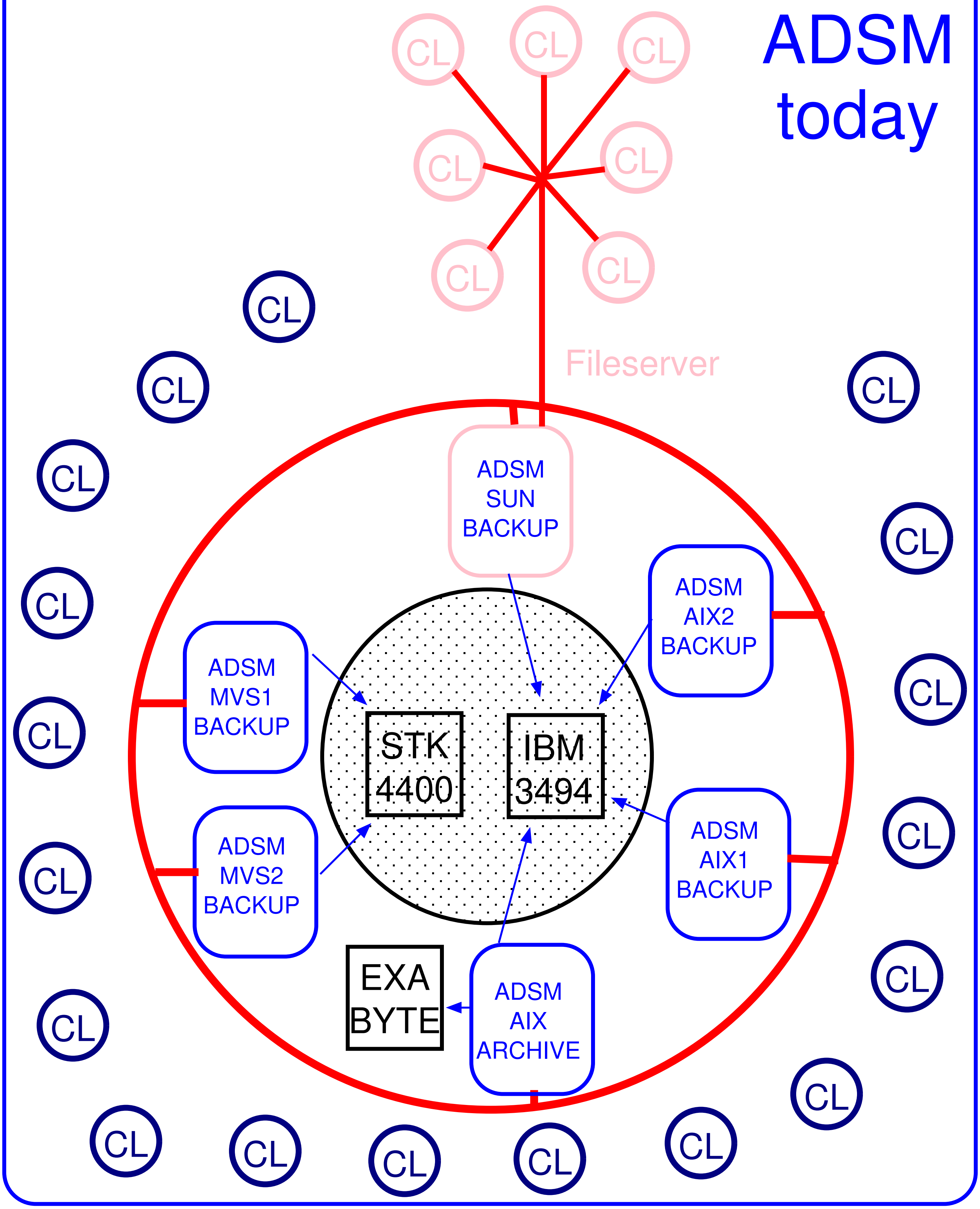
ADSM Archive Server AIX

ADSM Backup Server AIX

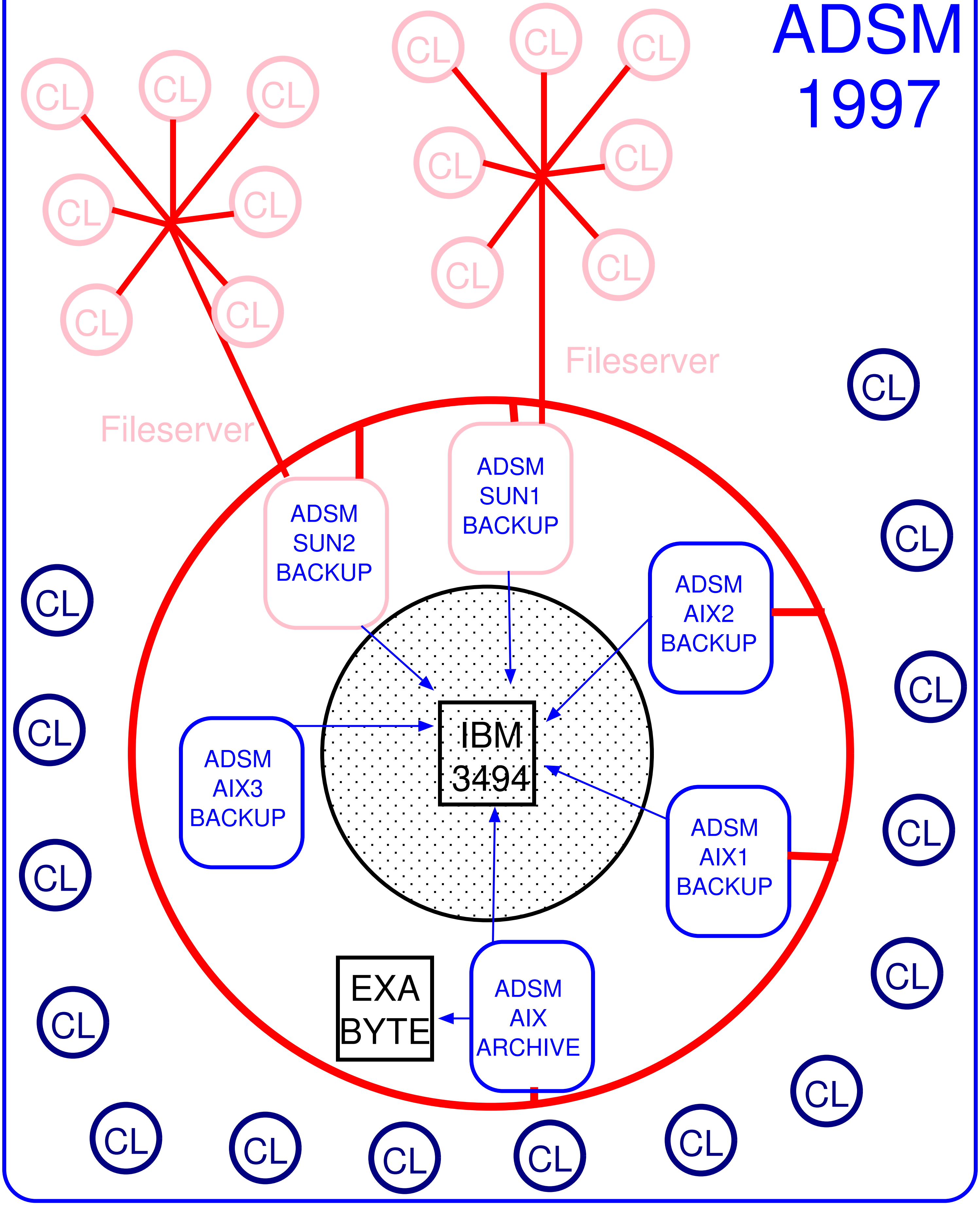
3494 Configuration

3494 with NETtape (planned)

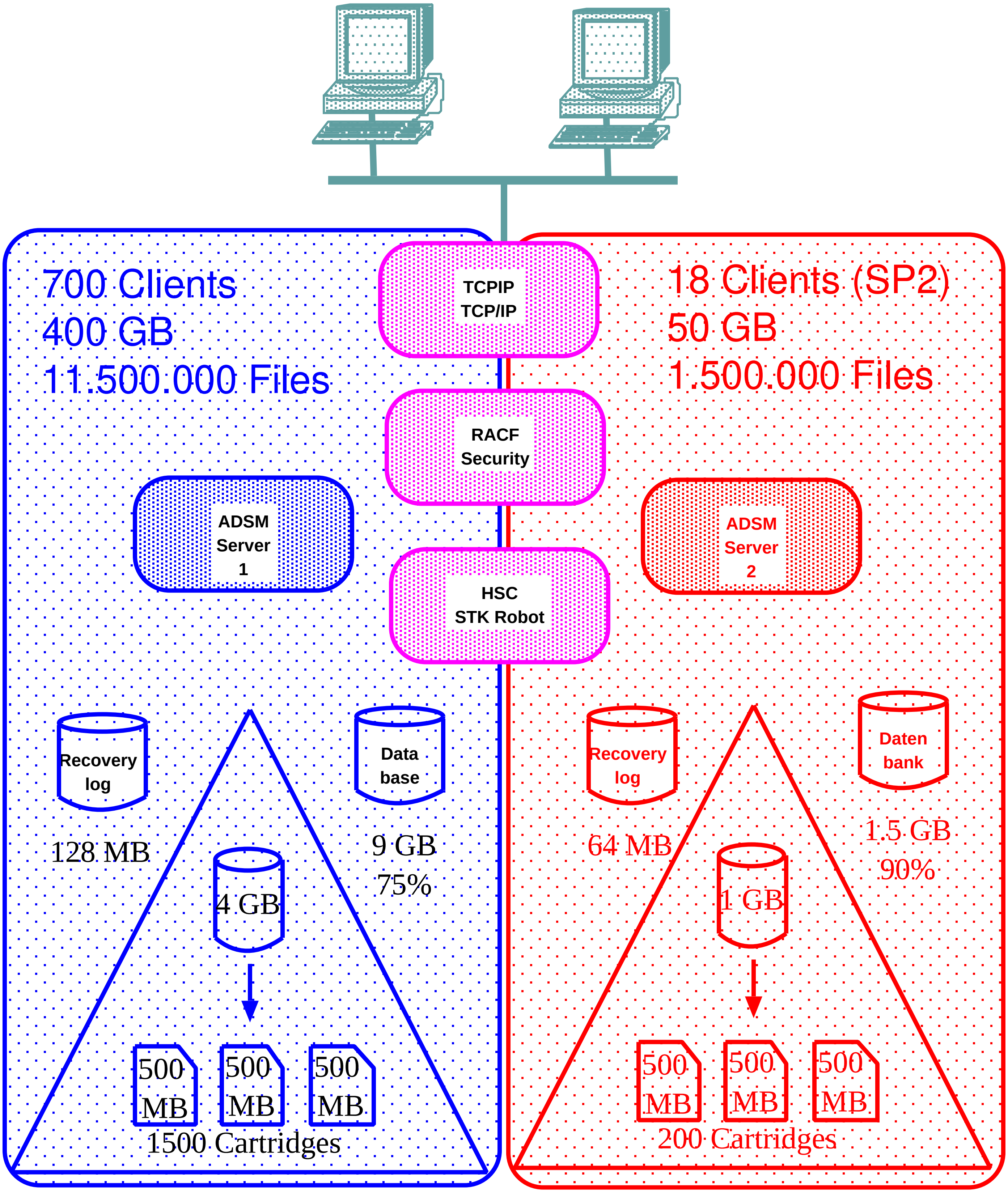
ADSM today


CL
Fileserver
ADSM SUN BACKUP
ADSM AIX2 BACKUP
ADSM MVS1 BACKUP
STK 4400
IBM 3494
ADSM AIX1 BACKUP
ADSM MVS2 BACKUP
EXA BYTE
ADSM AIX ARCHIVE

ADSM
1997


CL
Fileserver
Fileserver
ADSM SUN2 BACKUP
ADSM SUN1 BACKUP
ADSM AIX2 BACKUP
ADSM AIX3 BACKUP
IBM 3494
ADSM AIX1 BACKUP
EXA BYTE
ADSM AIX ARCHIVE

ADSM Backup-MVS Server



700 Clients
400 GB
11.500.000 Files

TCPIP
TCP/IP

RACF
Security

HSC
STK Robot

18 Clients (SP2)
50 GB
1.500.000 Files

ADSM
Server
1

ADSM
Server
2

Recovery log
128 MB

Data base
9 GB
75%

4 GB

500 MB
500 MB
500 MB

1500 Cartridges

Recovery log
64 MB

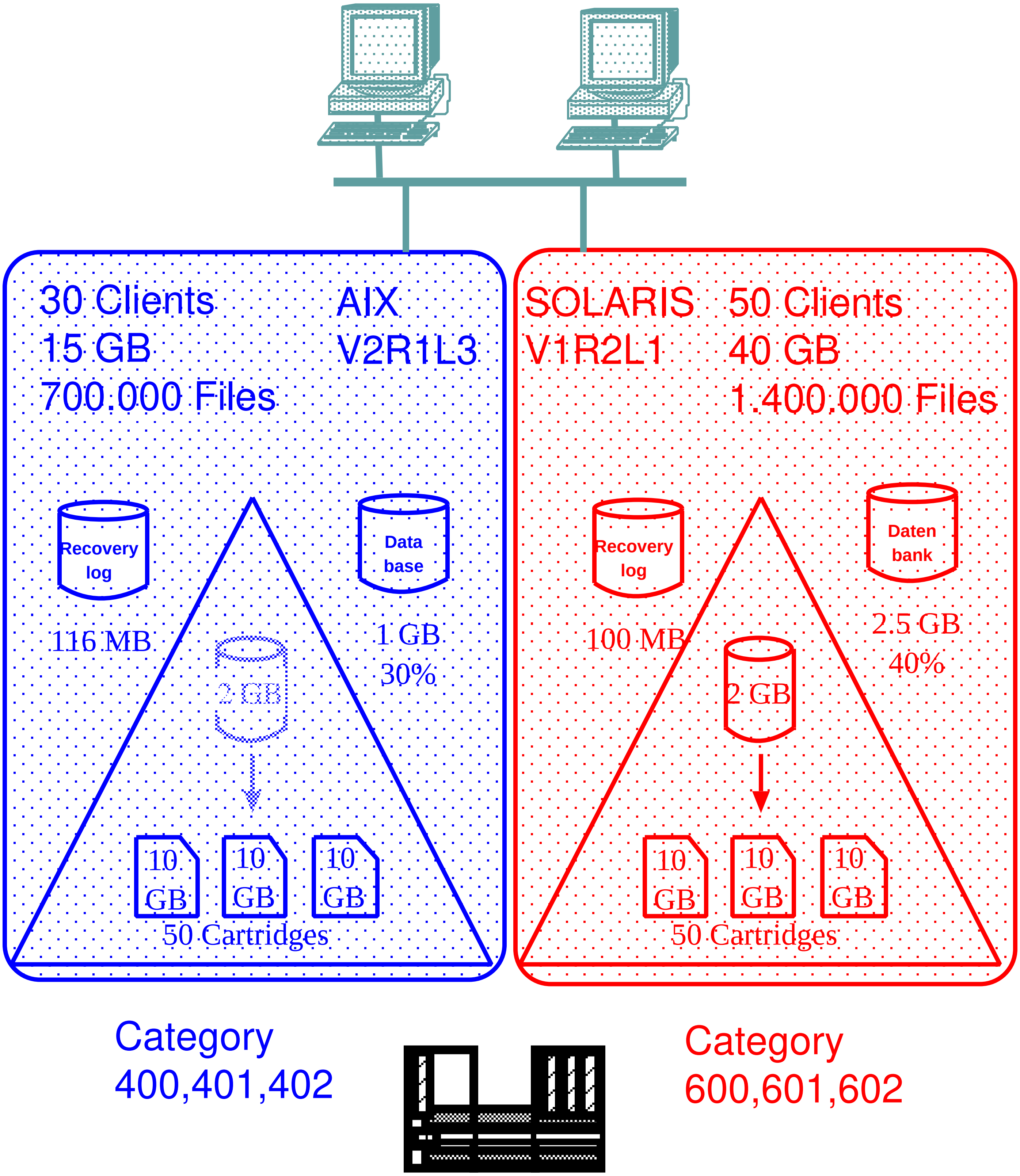
Daten bank
1.5 GB
90%

1 GB

500 MB
500 MB
500 MB

200 Cartridges

ADSM Backup-UNIX Server



30 Clients
15 GB
700.000 Files

AIX
V2R1L3

Recovery log
116 MB
Data base
1 GB
30%
2 GB
10 GB
10 GB
10 GB
50 Cartridges

SOLARIS
V1R2L1

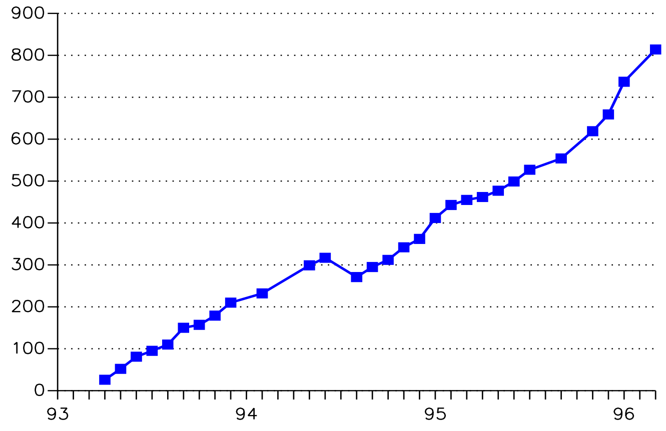
50 Clients
40 GB
1.400.000 Files

Recovery log
100 MB
Daten bank
2.5 GB
40%
2 GB
10 GB
10 GB
10 GB
50 Cartridges

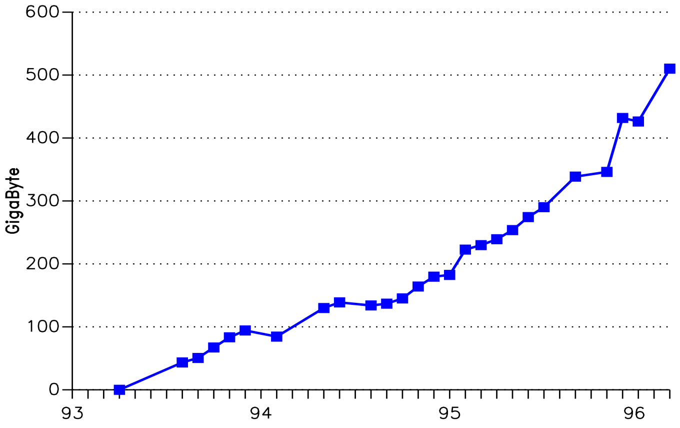
Category
400,401,402

Category
600,601,602

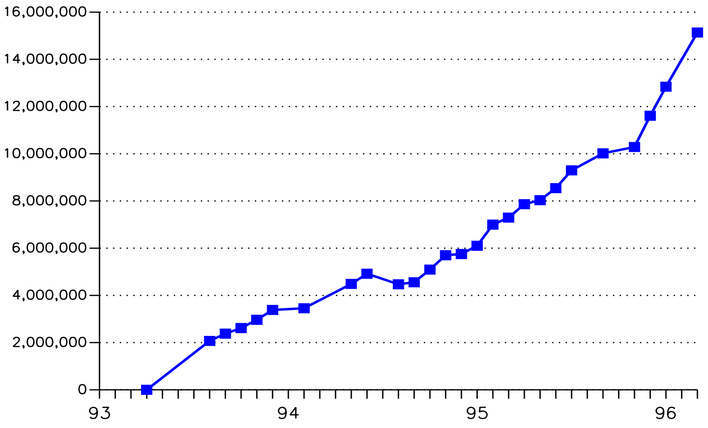
ADSM Backup Clients



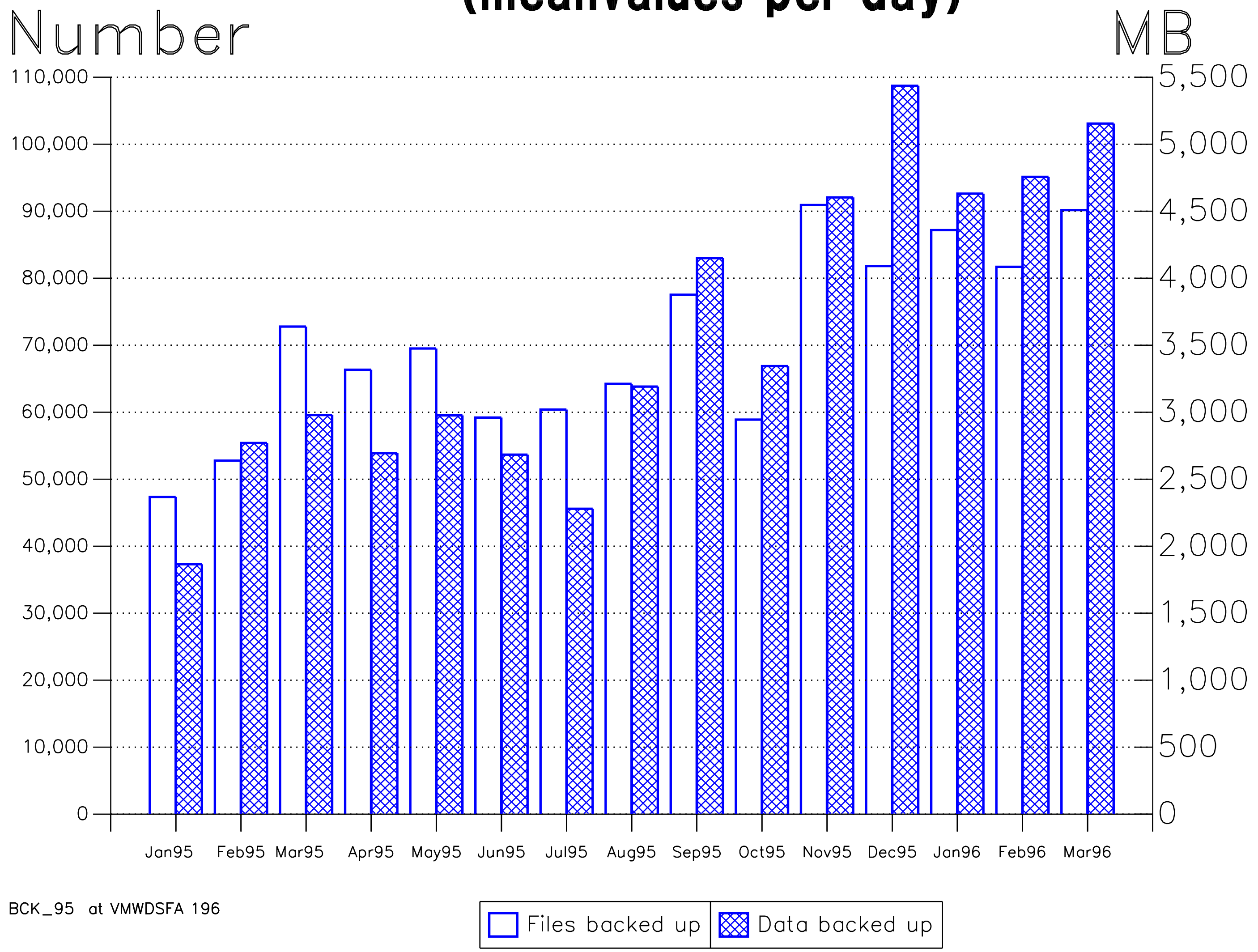
Amount of backuped data



Number of backuped datasets

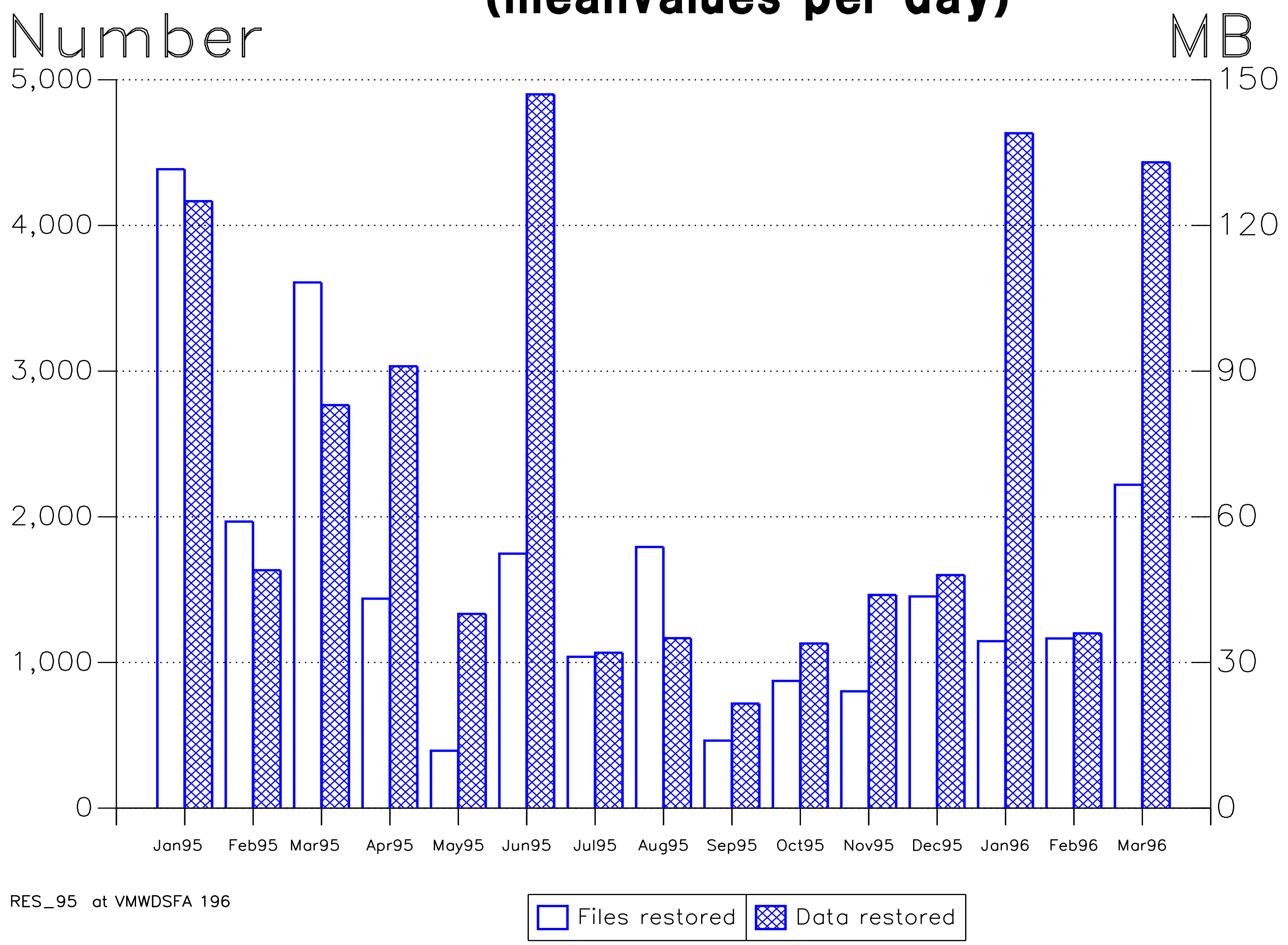


Backup usage of ADSM/MVS in 95/96 (meanvalues per day)

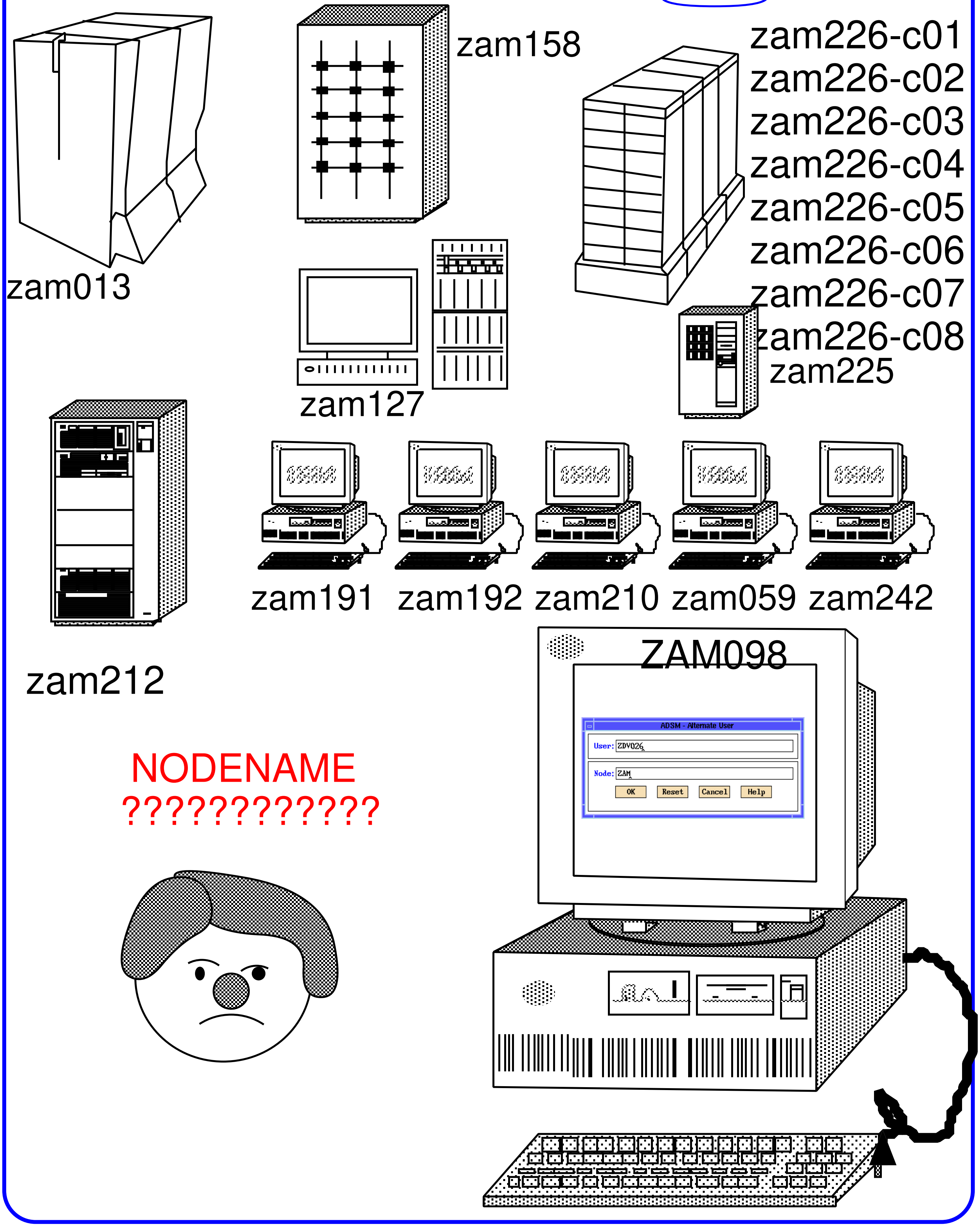


BCK_95 at VMWDSFA 196

Restore usage of ADSM/MVS in 95/96
(meanvalues per day)



RES_95 at VMWDSFA 196

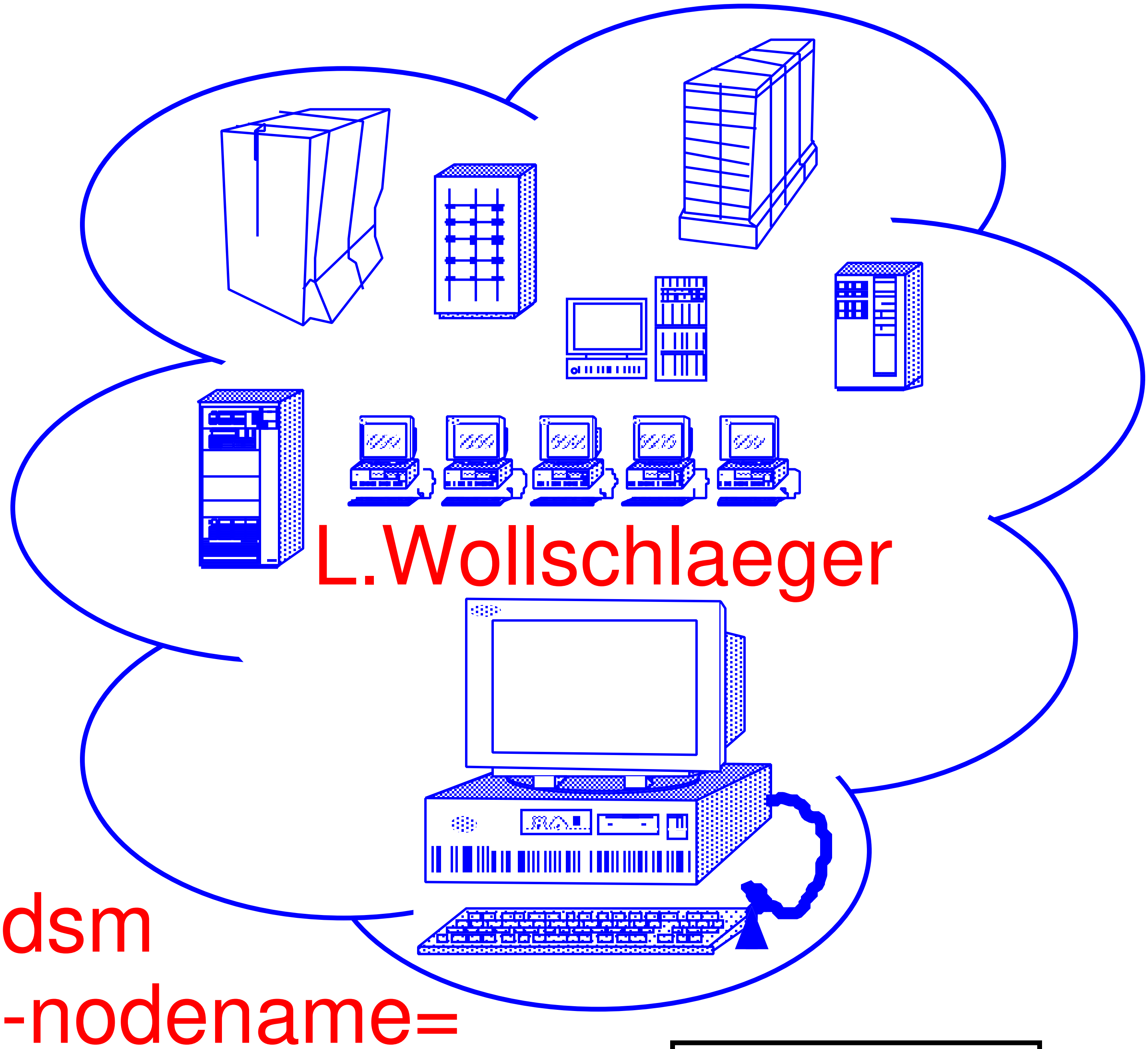

zam013
zam158
zam226-c01
zam226-c02
zam226-c03
zam226-c04
zam226-c05
zam226-c06
zam226-c07
zam226-c08
zam225
zam127
zam212
zam191
zam192
zam210
zam059
zam242
ZAM098
OK
Reset
Cancel
Help

ADSM - Alternate User

User: ZDV026

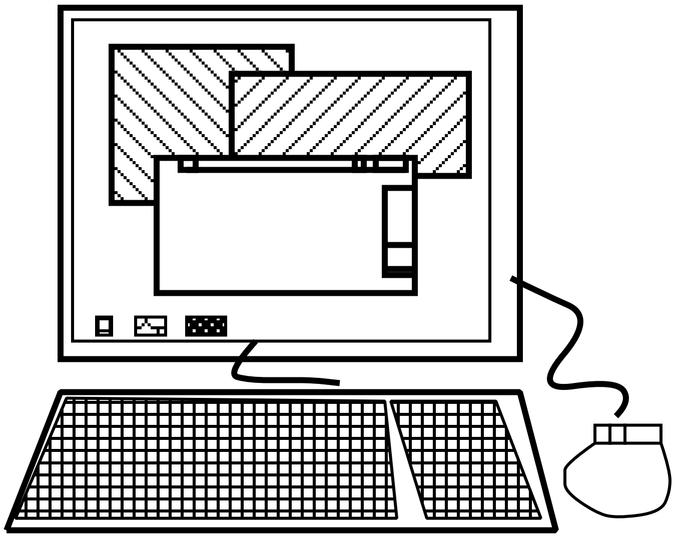
Node: ZAM

NODENAME
????????????

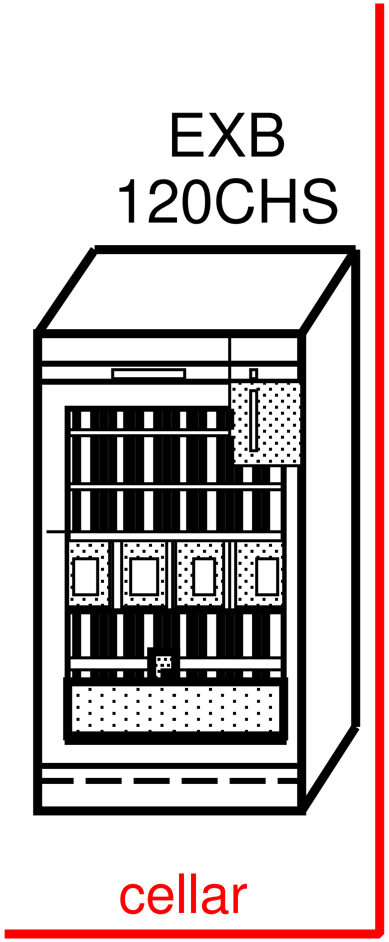


L.Wollschlaeger

dsm
-nodename=
L.Wollschlaeger

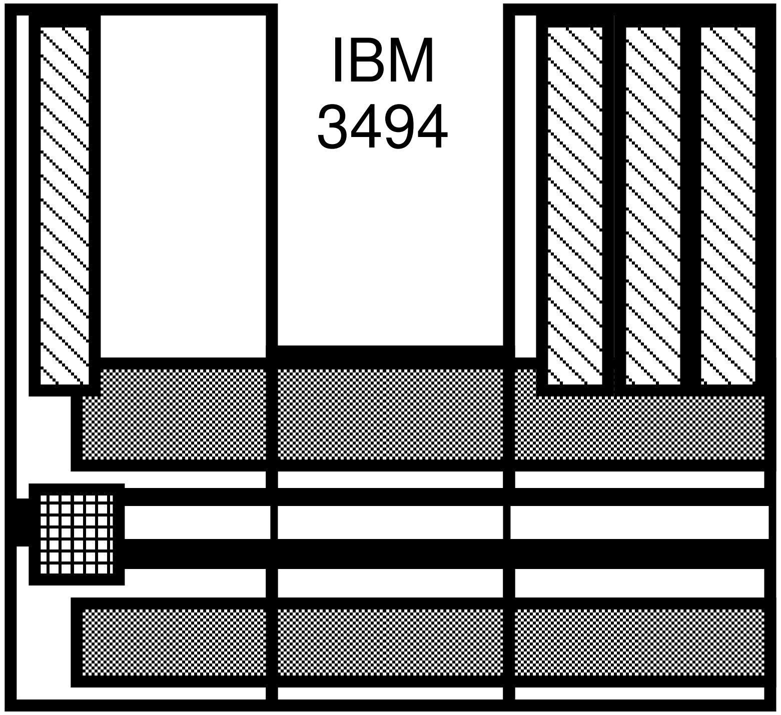


ADSM Archive Server Hardware



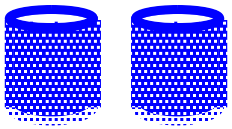
EXB
120CHS

cellar



IBM
3494

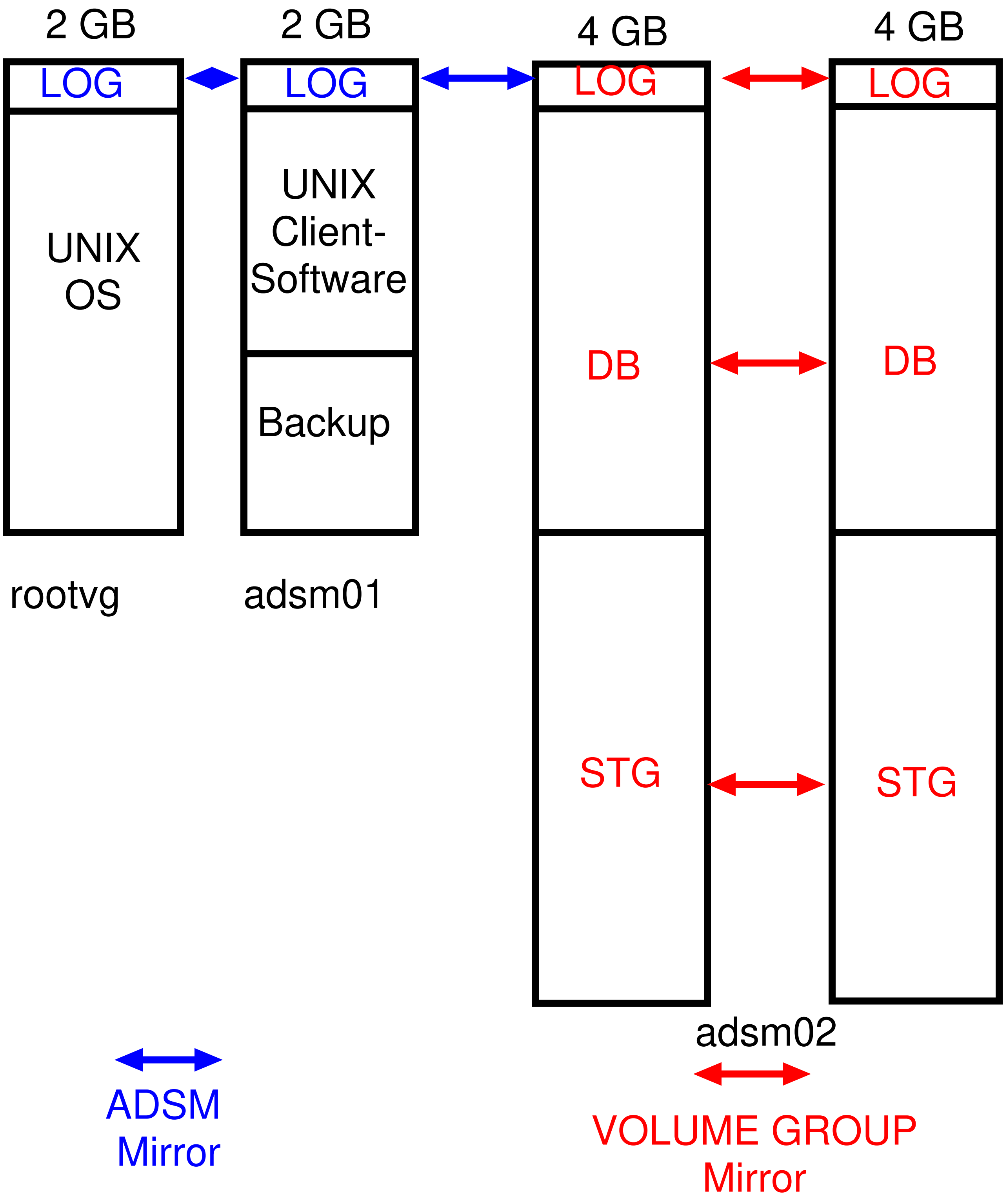
2 external Disks
with 4 (9) GB



2 Internal Disks
with 2 GB

IBM C20

ADSM Archive-AIX Server
Disk Usage



2 GB
LOG
UNIX
OS
rootvg

2 GB
LOG
UNIX
Client-
Software
Backup
adsm01

4 GB
LOG
DB
STG

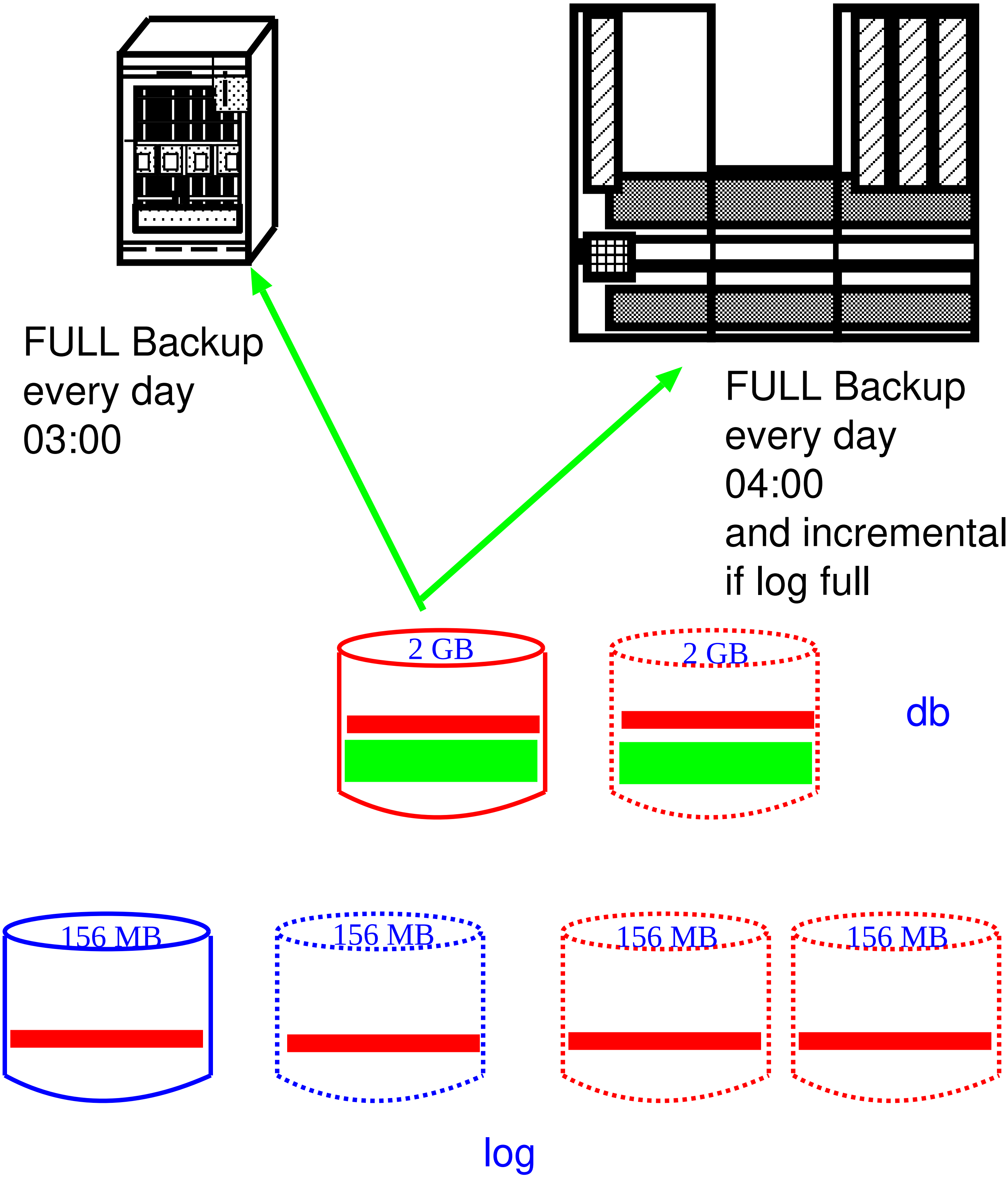
4 GB
LOG
DB
STG

adsm02

ADSM
Mirror

VOLUME GROUP
Mirror

ADSM Archive-AIX Server
Database Backup

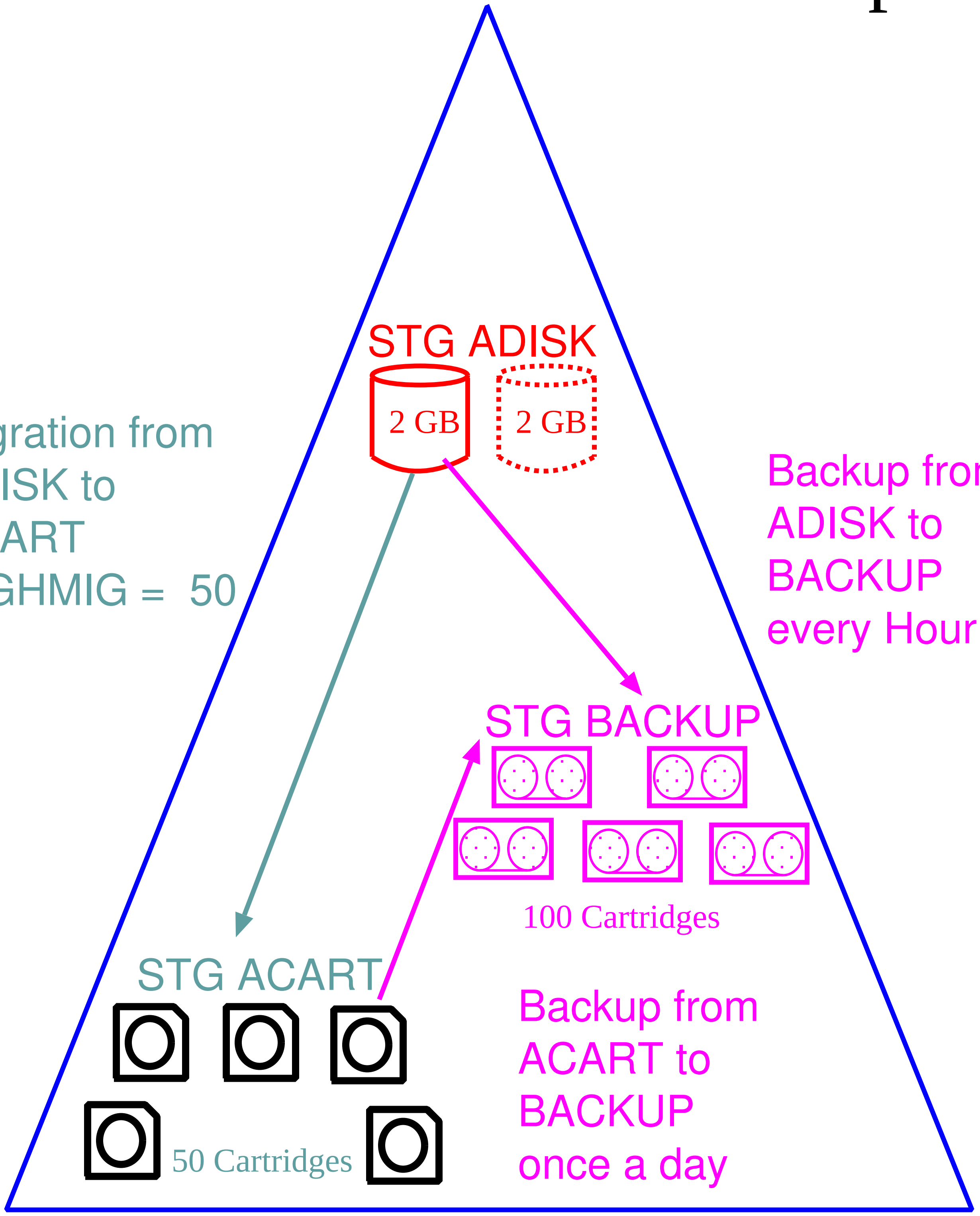


FULL Backup
every day
03:00

FULL Backup
every day
04:00
and incrementals
if log full

2 GB
2 GB
db
156 MB
156 MB
156 MB
156 MB
log

ADSM Archive-AIX Server
STAGING POOL Backup



STG ADISK

2 GB

2 GB

Migration from
ADISK to
ACART
HIGHMIG = 50

Backup from
ADISK to
BACKUP
every Hour

STG BACKUP

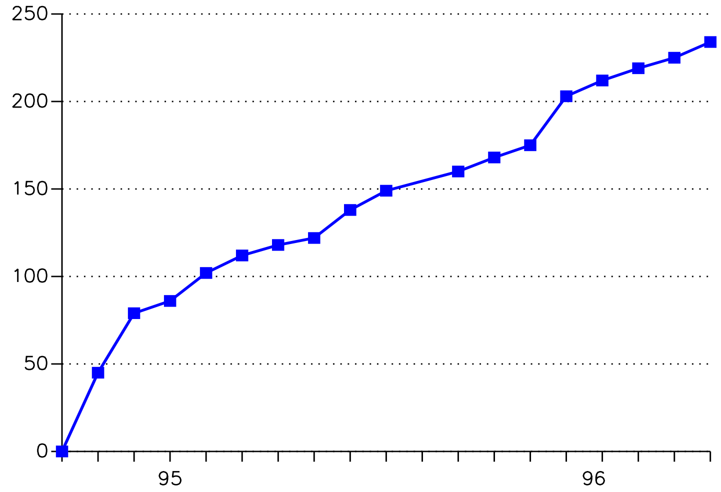
100 Cartridges

STG ACART

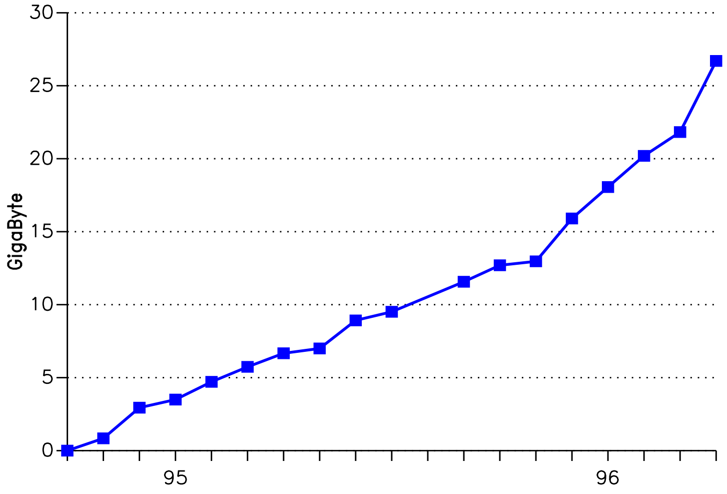
50 Cartridges

Backup from
ACART to
BACKUP
once a day

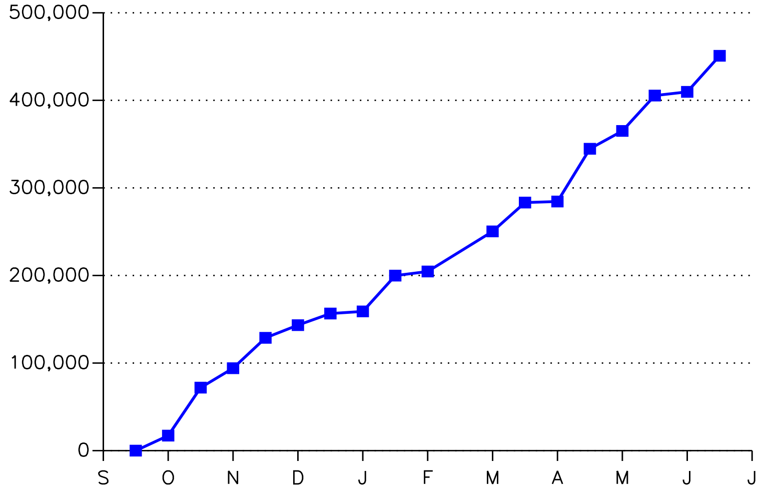
ADSM Archive Clients



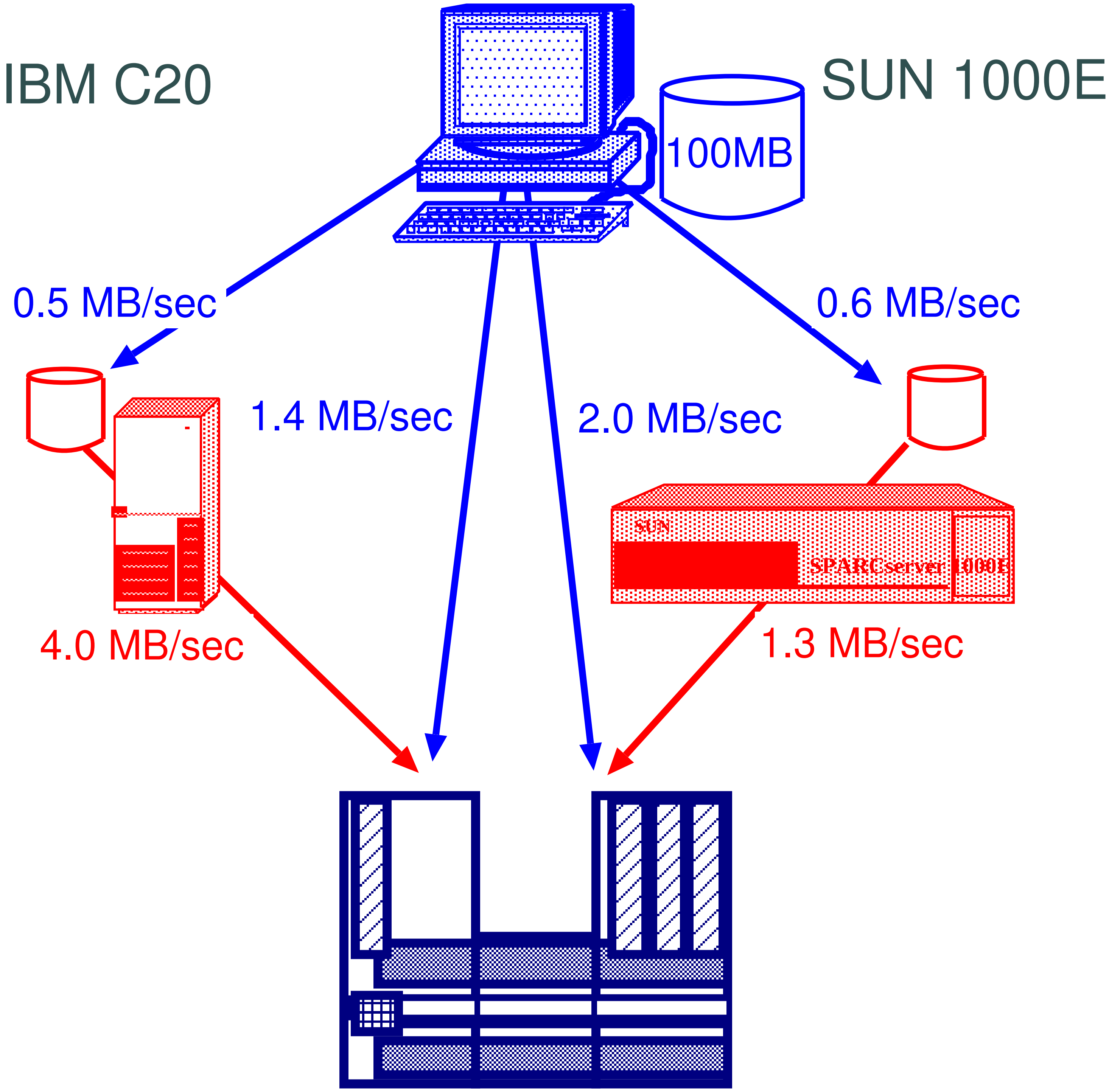
Amount of archived data



Number of archived datasets



ADSM Performance
AIX Server / Sun Server



IBM C20

SUN 1000E

100MB

0.5 MB/sec

0.6 MB/sec

1.4 MB/sec

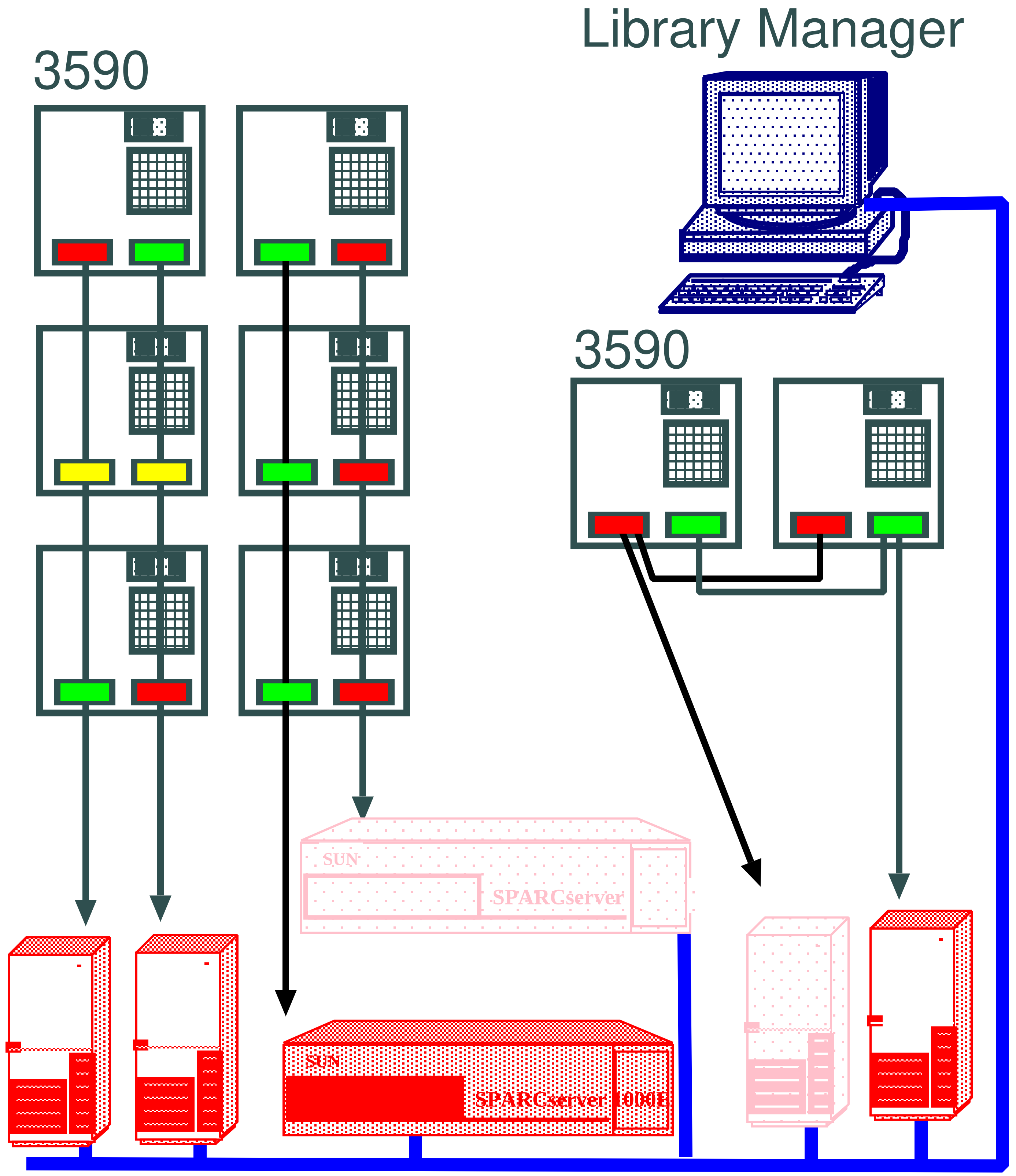
2.0 MB/sec

4.0 MB/sec

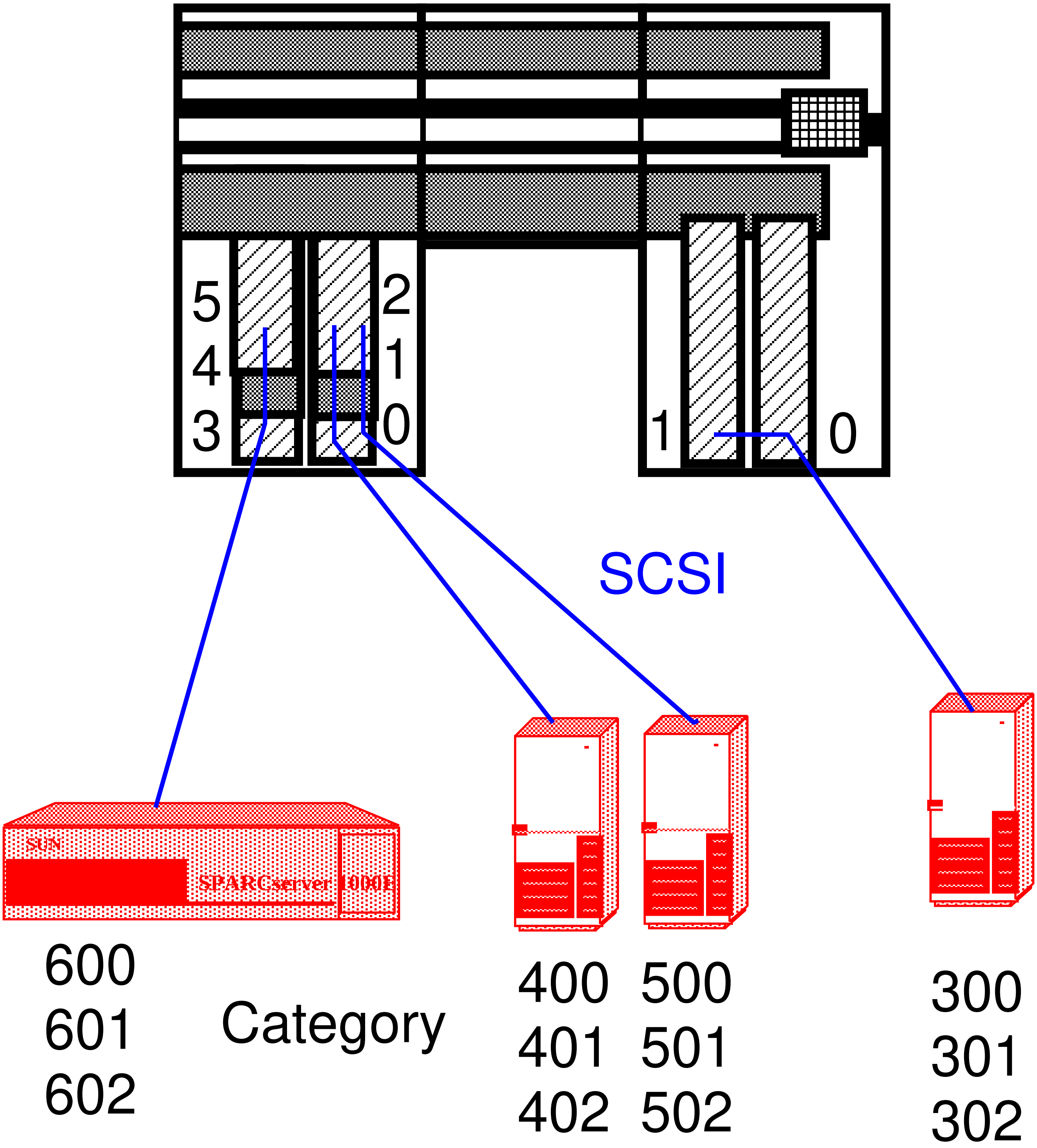
1.3 MB/sec

SUN
SPARCserver 1000E

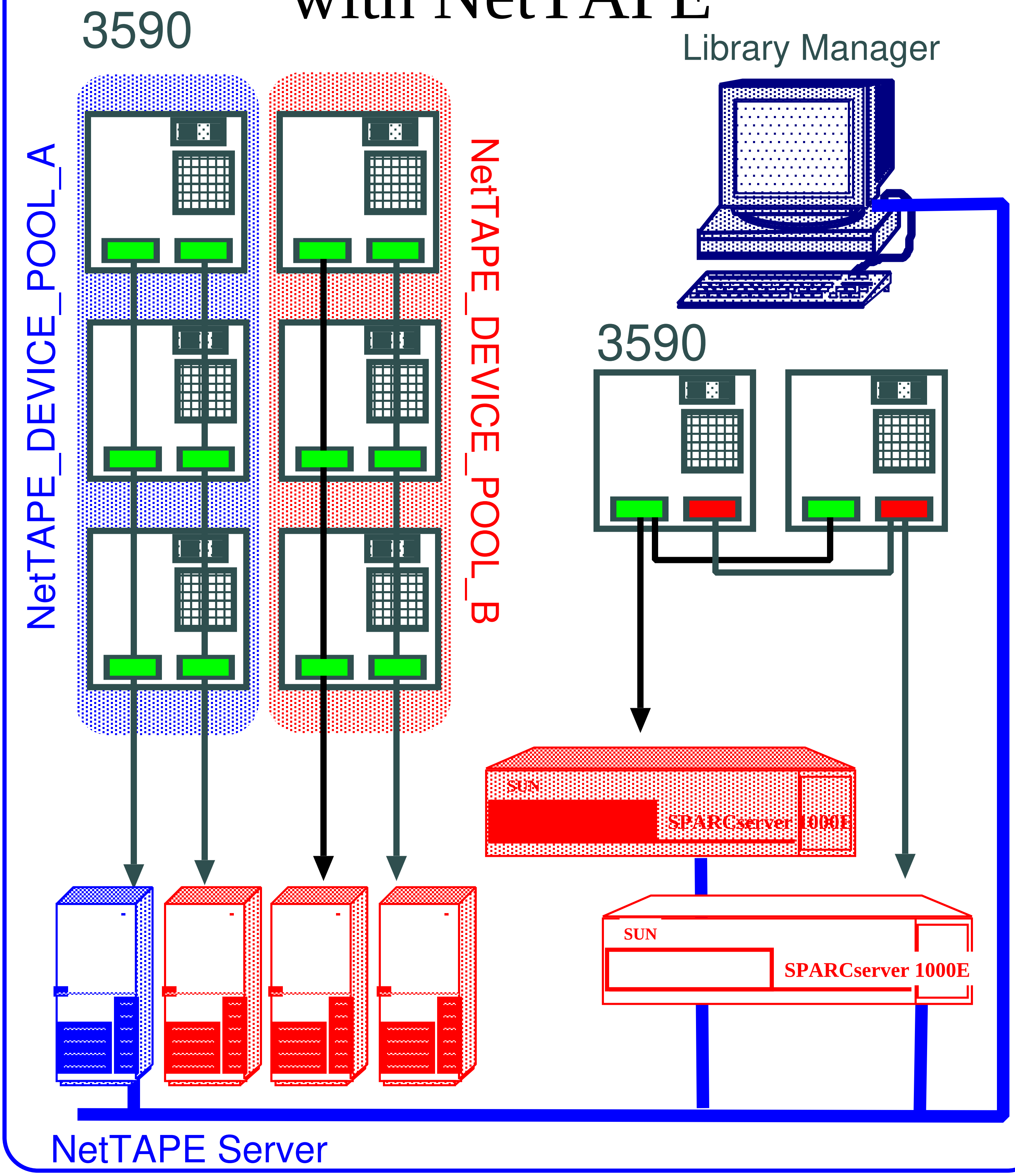
3494 Configuration


Library Manager
3590
3590
SUN
SPARCserver
SUN
SPARCserver 1000E

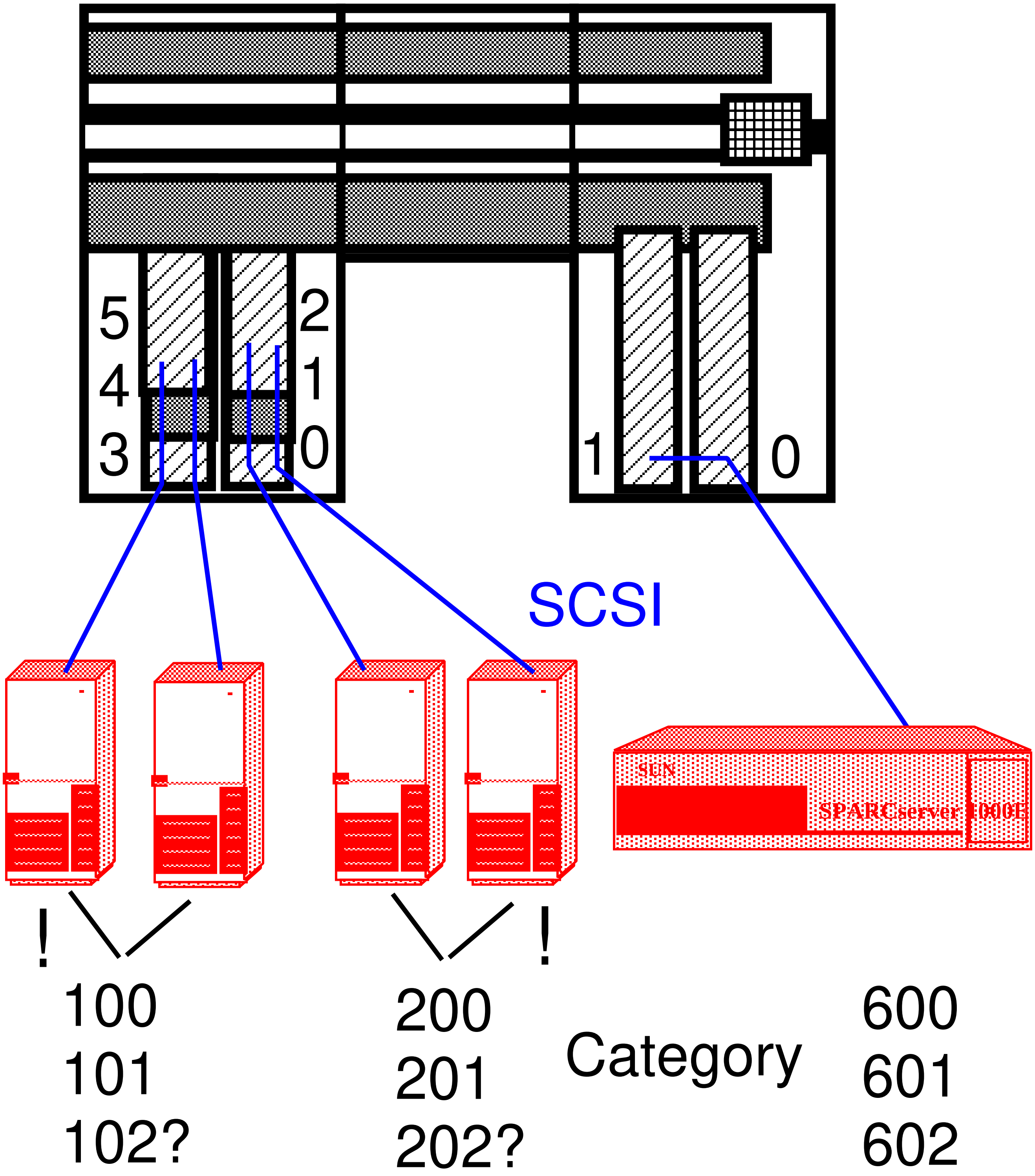
3494 Configuration


5
4
3
2
1
0
1
0
SCSI
SUN
SPARCserver 1000E
600
601
602
Category
400
401
402
500
501
502
300
301
302

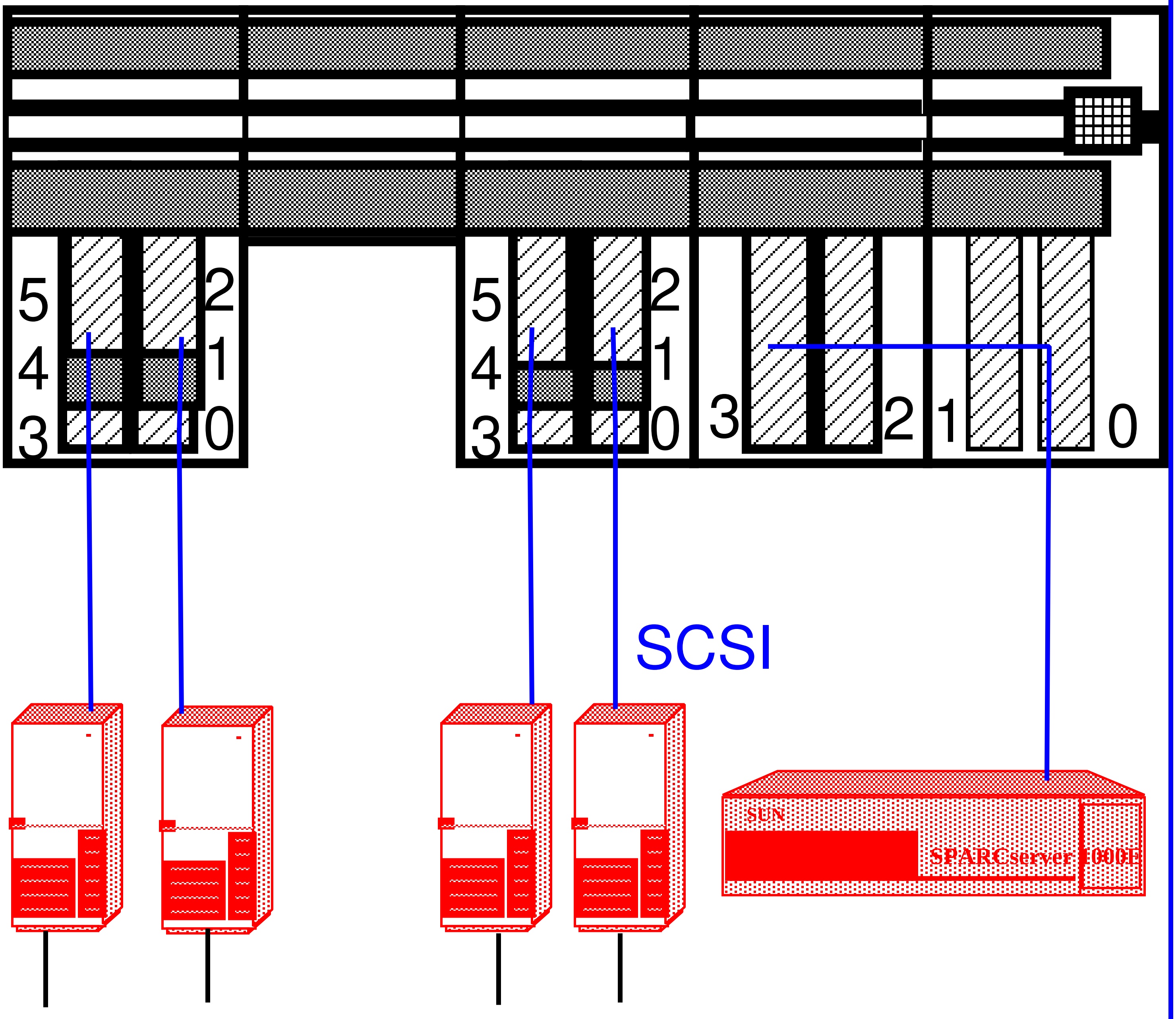
3494 Configuration with NetTAPE


3590
Library Manager
NetTAPE_DEVICE_POOL_A
NetTAPE_DEVICE_POOL_B
3590
SUN
SPARCserver 1000E
SUN
SPARCserver 1000E
NetTAPE Server

3494 Configuration with NetTAPE


5
4
3
2
1
0
1
0
SCSI
SUN
SPARCserver 1000E
!
!
100
101
102?
200
201
202?
Category
600
601
602

3494 Configuration with more drives


5
4
3
2
1
0
5
4
3
2
1
0
3
2
1
0
SCSI
SUN
SPARCserver 1000E

300 400 500 700 Category 600
301 401 501 701 601
302 402 502 702 602