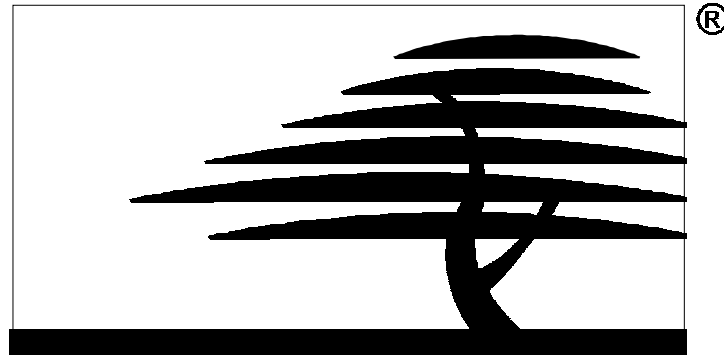




SCO

UnixWare® 7 Administration I: User Services

Transparency Masters

Course Release: 2.0

For Software: UnixWare® 7

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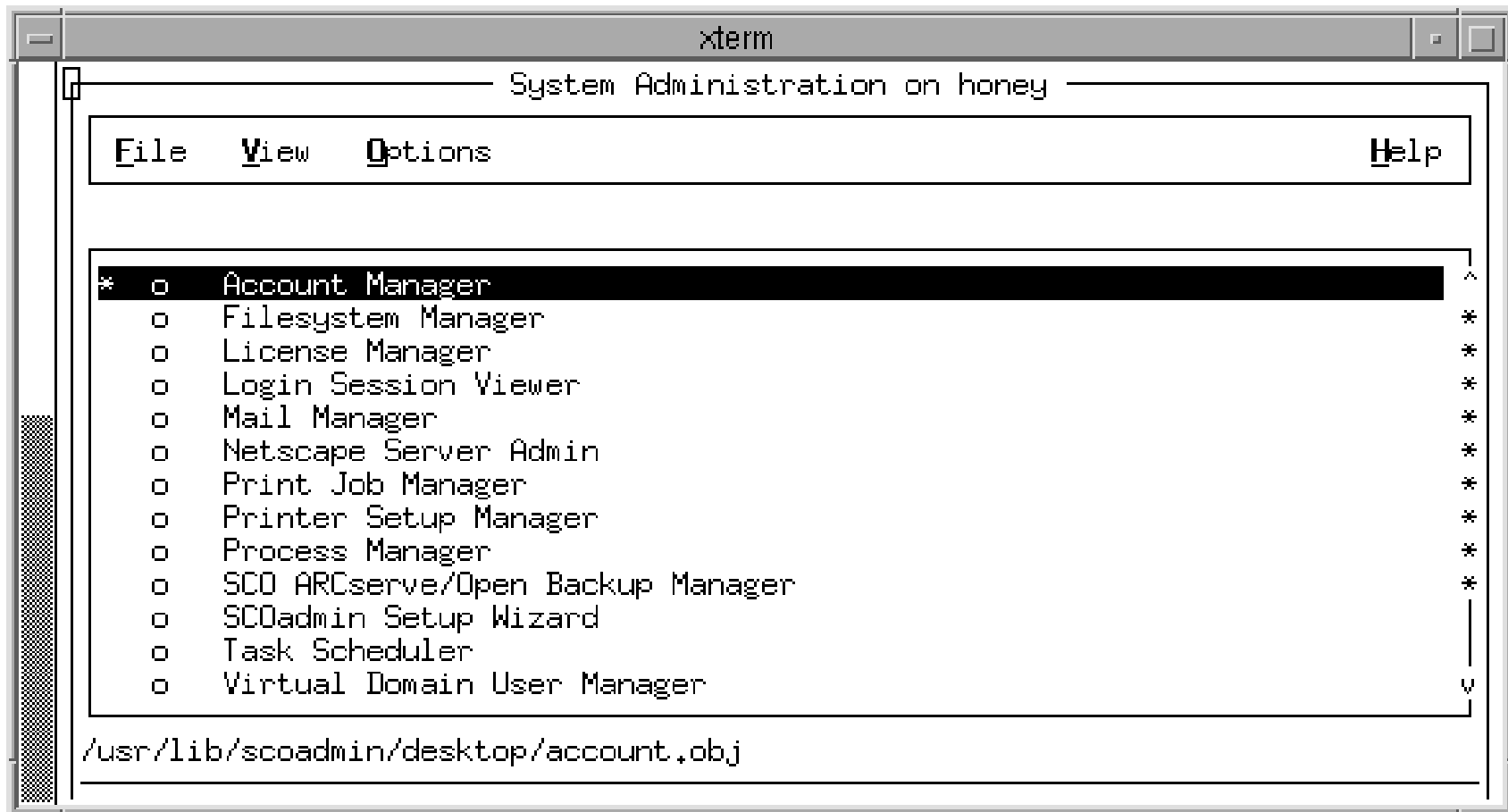
Using SCO Administration Tools

- Use **scoadmin**(1M)
- Locate topics in SCO documentation
- Identify other sources of information
- Describe the importance of the superuser and owner accounts
- Maintain a system log

SCOadmin



Using the **SCOadmin(1M)** CHARM Interface



Screen Areas of SCOadmin(1M)

The screenshot shows the 'Account Manager on honey' window. It features a menu bar with 'Host', 'Users', 'Groups', 'View', 'Options', and 'Help'. Below the menu is a toolbar with icons for adding users, deleting users, searching, and deleting. The main display area shows a table of user accounts. At the bottom, there is a status line with the text 'Add a new user account' and the 'SCOadmin' logo.

Account Manager on honey

Host Users Groups View Options Help

Control Buttons

User Accounts on honey.sco.com:

Status	User	ID	Comment
	adm	4	0000-Admin(0000)
	bin	2	0000-Admin(0000)
	daemon	1	0000-Admin(0000)
	kathyp	101	kathy
	listen	37	Network Admin
	lp	7	0000-LP(0000)
	mail	6	Mail Processes

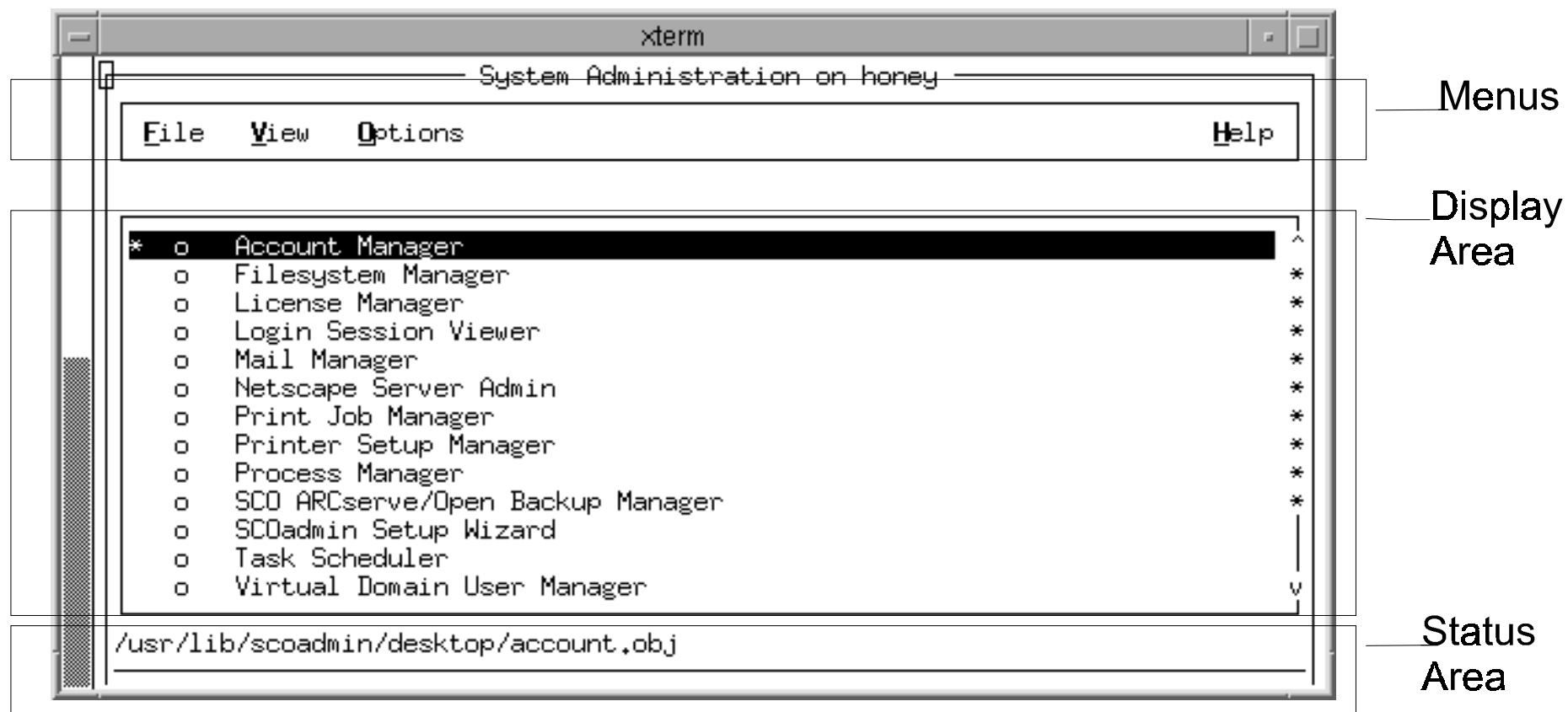
Display Area

Add a new user account

SCOadmin

Status Line

Using the **SCOadmin(1M)** CHARM Interface



Online Documentation Topic Areas

Topics
Area



Manual Page Section Mapping

UnixWare 7 manual pages have a main section name, an optional prefix, and an optional suffix. The main names are:

- 1 Unrestricted commands, which can be run by any user.
- 1M Administrative commands, whose options may be fully or partially restricted to the root or owner accounts.
- 2 System calls.
- 3 Library routines.
- 4 System files.
- 5 Miscellaneous.
- 7 Device drivers and driver interfaces.

Prefixes are X (for X windows system commands) and D (for driver development commands). For example, section X1M contains X windows administrative commands, and section D3 contains kernel utility functions.

A variety of suffixes subdivide the sections further, to allow for logical groupings of manual pages by technology and to enable easy scanning. Examples include section 1nfs (Unrestricted NFS commands) and 3M (Library math routines).

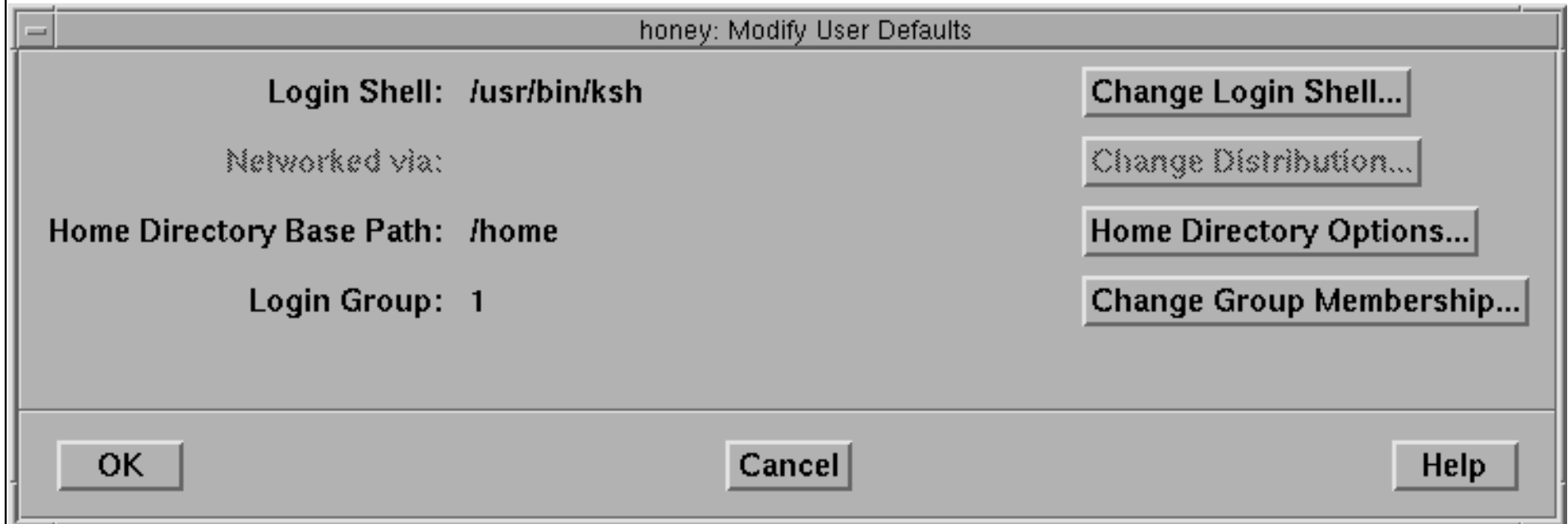
Administering User Accounts

- Analyze user account requirements
- Create, modify, and delete user accounts
- Manage user groups
- Set, change, and remove login and password restrictions
- Create and use account activity reports
- Troubleshoot user accounts

Password Settings and Security Profiles

Low	Passwords are not required.
Traditional	Passwords are required. The minimum length is three (3) characters.
Improved	Passwords are required. The minimum length is six (6) characters.
High	Passwords are required. The minimum length is eight (8) characters.

Changing the Login Shell



Changing the Home Directory Location

Default Home Directory Options

Home Directory Base Path:

Home Directory Permissions:

	User	Group	Other
Read	+	☐	☐
Write	+	☐	☐
Execute	+	☐	☐

Group Permissions

Directory:

```
drwxrwx--- 2 david sales 688 Jan 1998 reports
```

File:

```
-rw-r----- 1 david sales 234 Jan 1998 sales.dat  
-rw-rw---- 1 sue market 1256 Mar 1998 forecast
```

Groups:

```
sales: john, sue, david  
account: peter, mary, donna  
market: john, sue, phil
```

Adding a New Group

honey: Add New Group

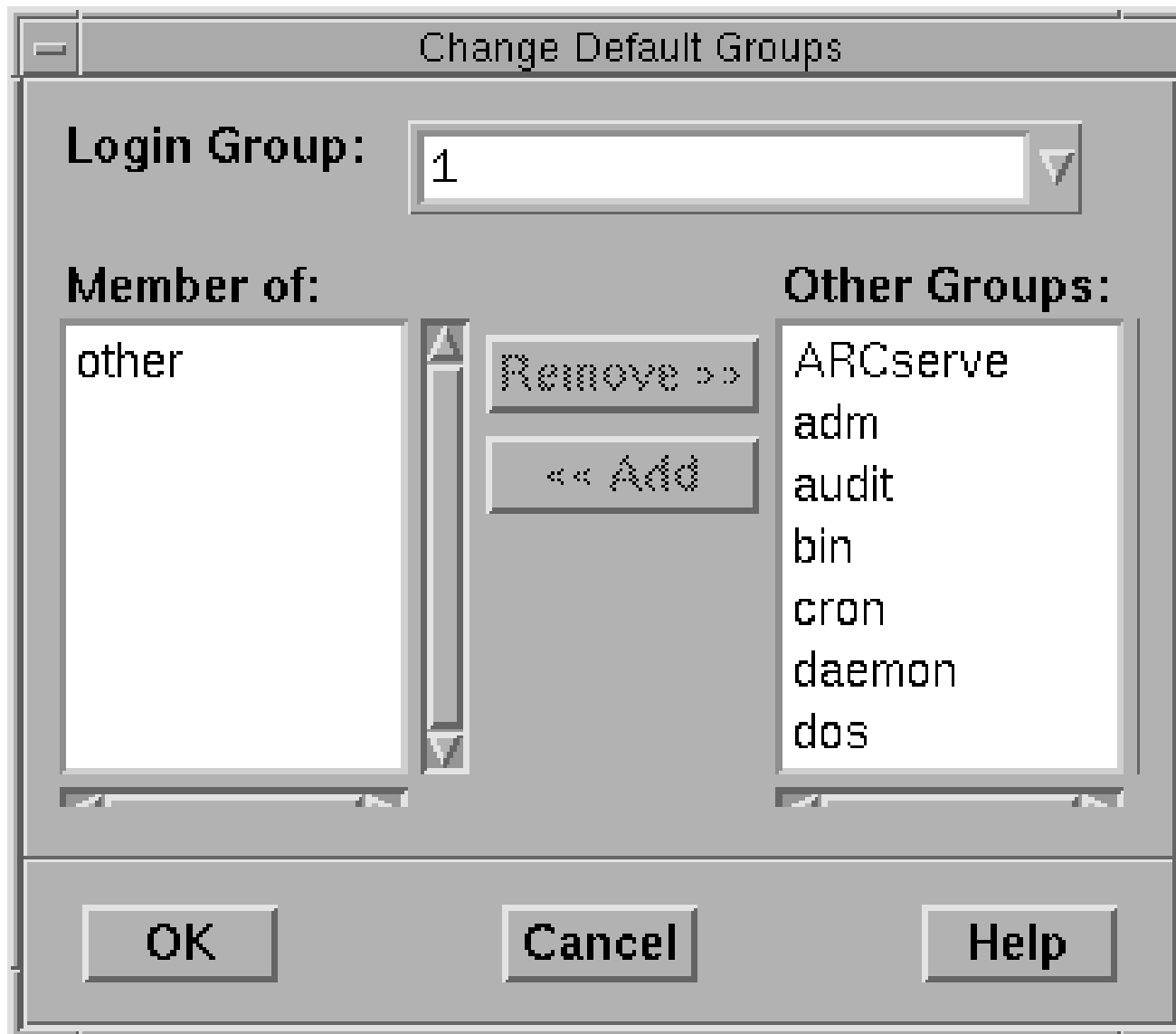
Group Name:

Group ID:

Networked via:

Users in Group		Other Users
	Remove >>	adm
	Add <<	bin
		daemon

Changing Default Groups



Changing Permissions

Each permission is assigned a number:

read = 4 write = 2 execute = 1

Add these numbers for each user category:

	OWNER	GROUP	OTHER
-	r w -	r - -	r - -
	4 2	4	4
	6	4	4

Use with **chmod(1)**:

\$ chmod 644 filename

Default Discretionary Access Control

Directories:	(7) (7) (7)
Unrestricted permissions:	drwxrwxrwx
— umask 022	0 2 2
Permissions of new directories	drwxr-xr-x
	(7) (5) (5)

Ordinary files:	(7) (7) (7)
Unrestricted permissions:	-rwxrwxrwx
— umask 022	0 2 2
— No execute permission	---x---x---x
Permissions of new files	-rw-r--r--
	(6) (4) (4)

Adding a New User

honey: Add New User

Login:

User ID:

Comment:

Netware Login ID:

Password:

Login Shell:

Networked via:

Home Directory:

Login Group:

Login Locale:

Changing Account Defaults

```
SHELL=/usr/bin/ksh  
HOMEDIR=/home  
SKELDIR=/etc/skel  
GROUPLD=1  
INACT=  
EXPIRE=  
DEFLVL=USER_LOGIN  
AUDIT_MASK=none
```

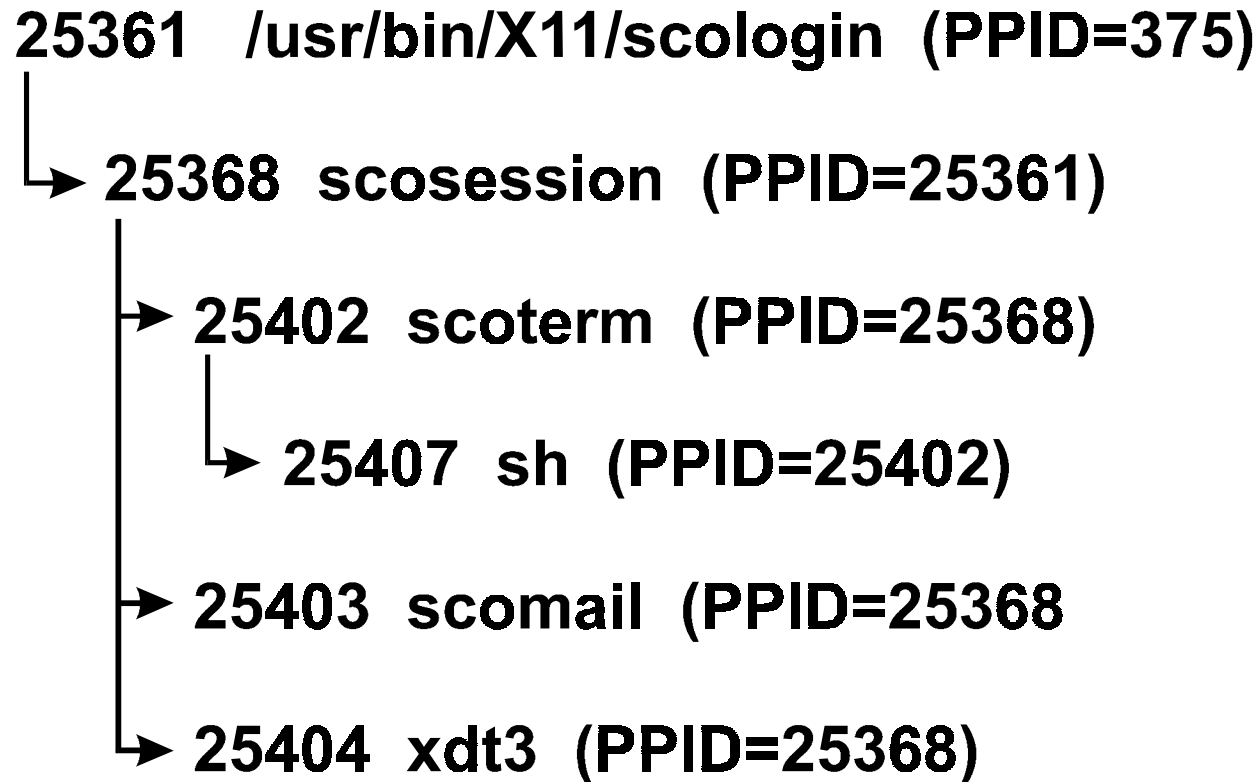
Login Restrictions

```
#TIMEZONE=EST5EDT  
HZ=100  
#ULIMIT=4096  
CONSOLE=/dev/console  
PASSREQ=YES  
ALTSHELL=YES  
MANDPASS=NO  
UMASK=077
```

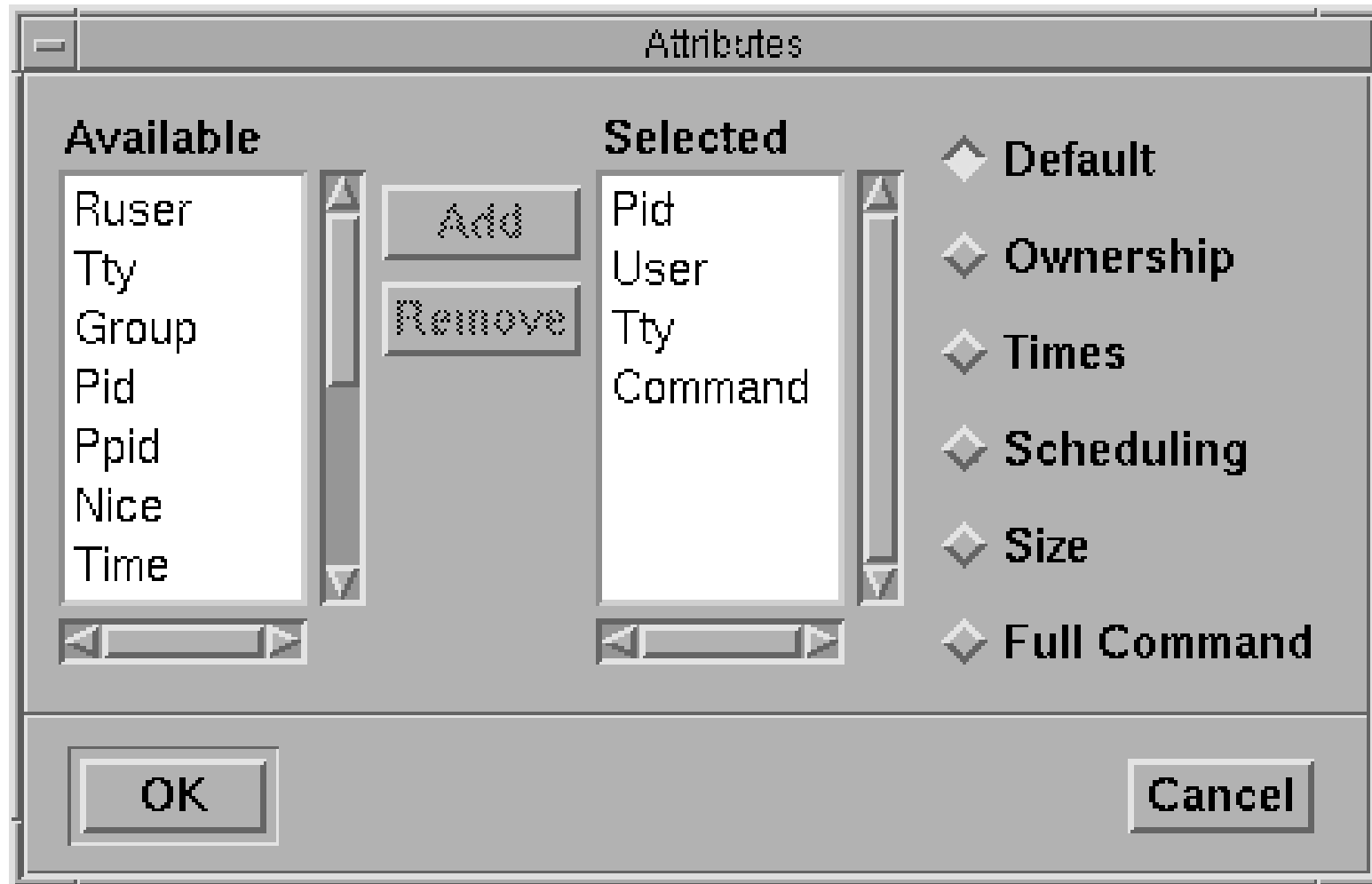
Managing Processes

- Describe a process
- Terminate processes
- Manage processes using the **SCOadmin Process Manager**
- Automate system tasks using the **SCOadmin Task Scheduler**

Parent and Child Processes



Process Attributes

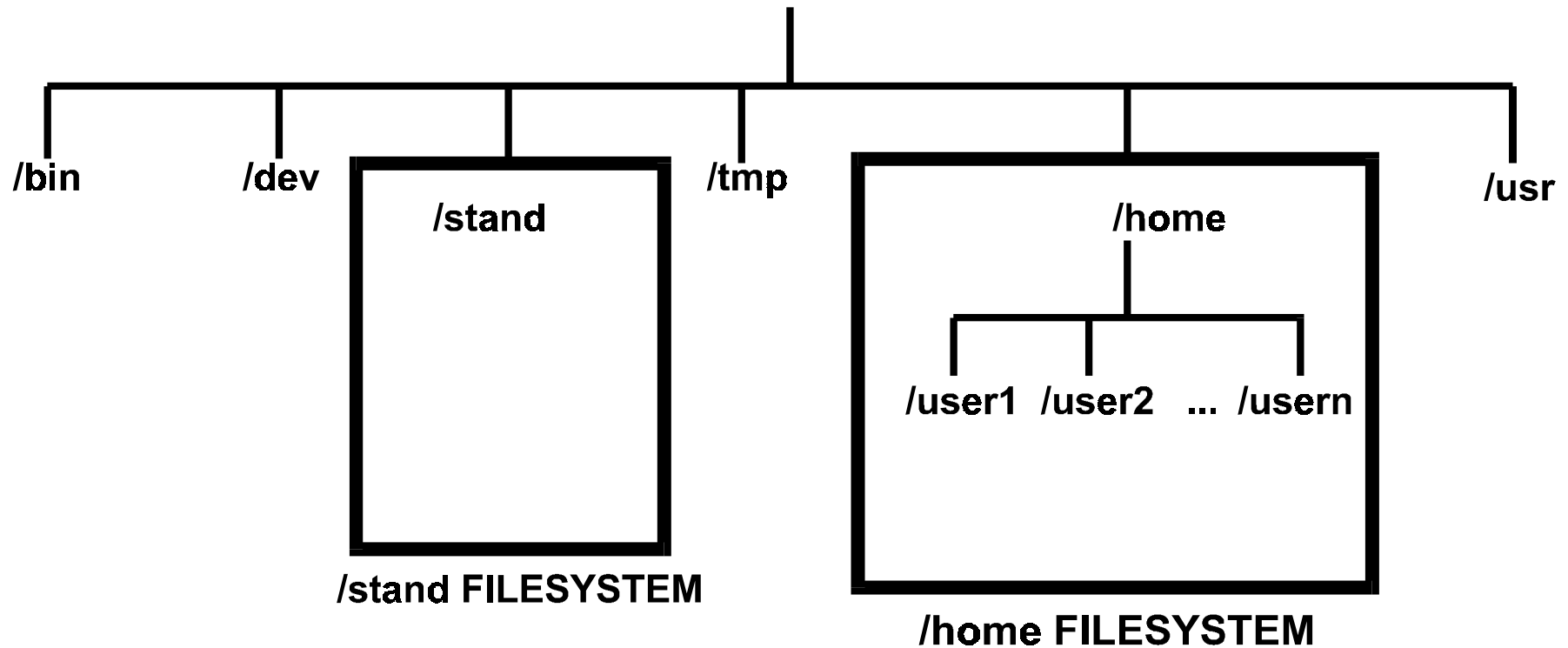


Working with Filesystems

- Describe filesystem basics
- Use different filesystem types
- Mount and unmount a filesystem
- Repair a non-root filesystem
- Monitor filesystems
- Locate and manage user files
- Manage system logs and temporary directories

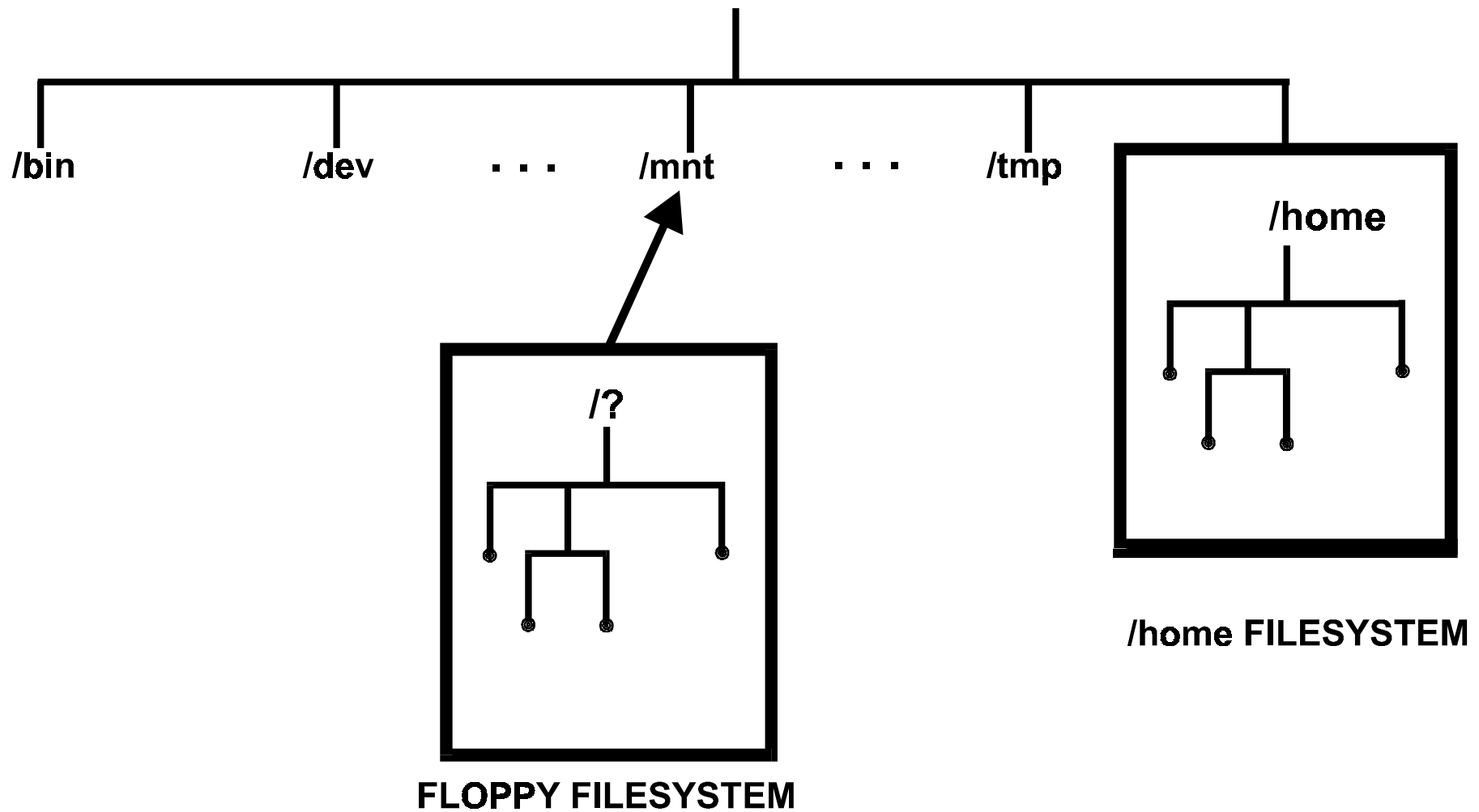
One Directory - Several Filesystems

ROOT (/) FILESYSTEM



Mounting a Filesystems

ROOT (/) FILESYSTEM



Filesystem Manager Disk Usage

Filesystem Manager on honey

Host Mount Share View Options Help

Disk Usage of Filesystems on honey

Filesystem	Mount Point	Total (MB)	Used (MB)	Free (MB)	% Used
/dev/dsk/f0t	/install				
/proc	/proc	0.0	0.0	0.0	0%
/dev/stand	/stand	23.5	2.7	20.7	12%
/processorfs	/system/processor	0.0	0.0	0.0	0%
/tmp	/tmp	10.0	0.0	9.9	1%
/var/tmp	/var/tmp	40.0	0.0	39.9	1%

Total: 10 items

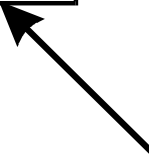
SCOadmin

Determining the Size of a Directory

```
# du -ks /etc
```

```
16352
```

```
/etc
```



SIZE IN 1K BLOCKS

-s: DISPLAY GRAND TOTAL

-k: DISPLAY SIZE IN 1K BLOCKS

Determining Disk Usage by a User

#quot	/dev/u
-------	--------

312348	john
--------	------

86298	mary
-------	------

5024	sue
------	-----

⋮

SIZE IN 512 BYTE BLOCKS

Working with Disks and Tapes

- Work with floppy disks
- Work with tape drives
- Transfer data to tape or disk using the **tar(1)** and **cpio(1)** commands

Floppy Disk Device Names

Name	Capacity	Size
f015ht	1.2MB	5.25 inch
f03ht	1.44MB	3.5 inch
f03et	2.88MB	3.5 inch

Examples: Floppy Disk 0 3.5 inch 1.44MB /dev/rdisk/f03ht

Floppy Disk 1 5.25 inch 1.2MB /dev/rdisk/f115ht

Floppy Disk Attributes

```
alias='mdens1HIGH'  
bdevice='/dev/dsk/f03ht'  
bdevlist='/dev/dsk/f03h'  
capacity='2844'  
cdevice='/dev/rdisk/f03ht'  
cdevlist='/dev/rdisk/f03h'  
copy='true'  
desc='3.5 inch 1.44 Mbyte (High Density) '  
display='false'  
erasecmd='/usr/sadm/sysadm/bin/floperase /dev/rdisk/f03ht '  
fmtcmd='/usr/sbin/format -v /dev/rdisk/f03ht '  
mdenslabel='dtmedia:293^1.44 Mbyte '  
mkdtab='true '  
mkfscmd='/sbin/mkfs -F s5 /dev/dsk/f03ht 2844:711 2 36 '  
mkvxfscmd='/sbin/mkfs -F vxfs -o ninode=711 /dev/dsk/f03ht  
2844 '  
mountpt='/install '  
removable='true '  
type='mdens '  
volume='diskette '
```

tar(1) Options

OPTION	DESCRIPTION
v	Verbose (display output)
L	Follow symbolic links
c	Create archive
r	Append to archive
t	Table of contents
x	Extract from archive
#	Archive device in <i>/etc/default/tar</i>

Defining the Default Device in */etc/default/tar*

```
archive0=/dev/rdisk/f0q15dt      15      1200      n
archive1=/dev/rdisk/f1q15dt      15      1200      n
archive6=/dev/rdisk/f03ht        18      1440      n
```

.

.

.

```
archive8=/dev/rmt/c0s0           20       0         y
```

.

.

.

The default device in the absence of a numeric or "-f device" argument

```
archive=/dev/rdisk/f0t           15      1200      n
```

Creating an Archive: (vocBL)

v	Verbose
o	Write archive out
c	ASCII header (for moving to different types of systems)
B	Blocking factor set to 5KB
L	Follow symbolic links

Extracting an Archive (vicdumB)

v	Verbose
i	Read archive in
c	ASCII header
d	Create directories as required
u	Copy unconditionally
m	Retain previous modification times
B	Blocking factor set to 5KB

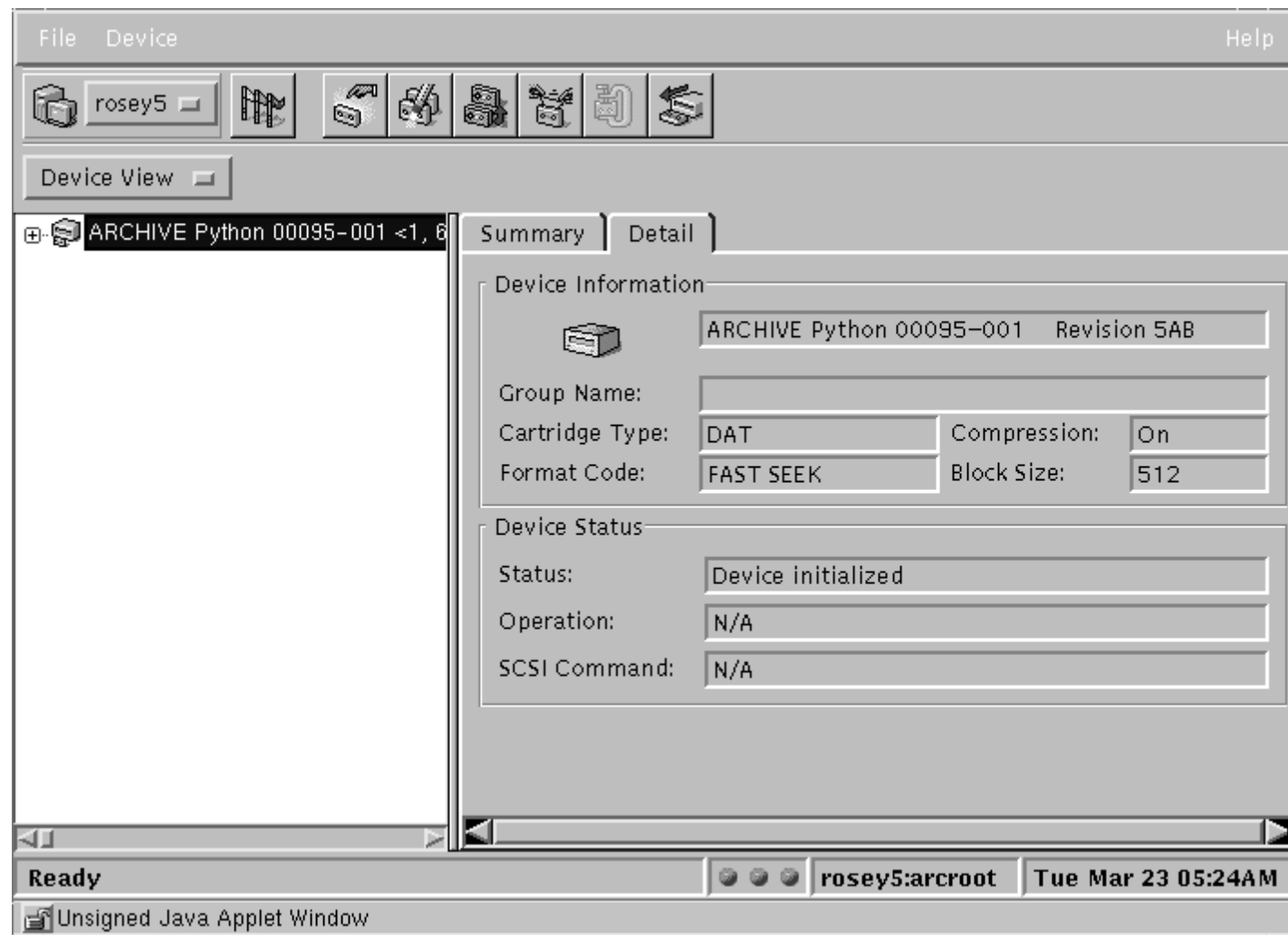
Backup Administration

- Organize and maintain filesystem backups
- Describe ARCserveIT products
- Back up filesystems and files
- Verify a filesystem backup
- Restore filesystems and files
- Schedule unattended backups

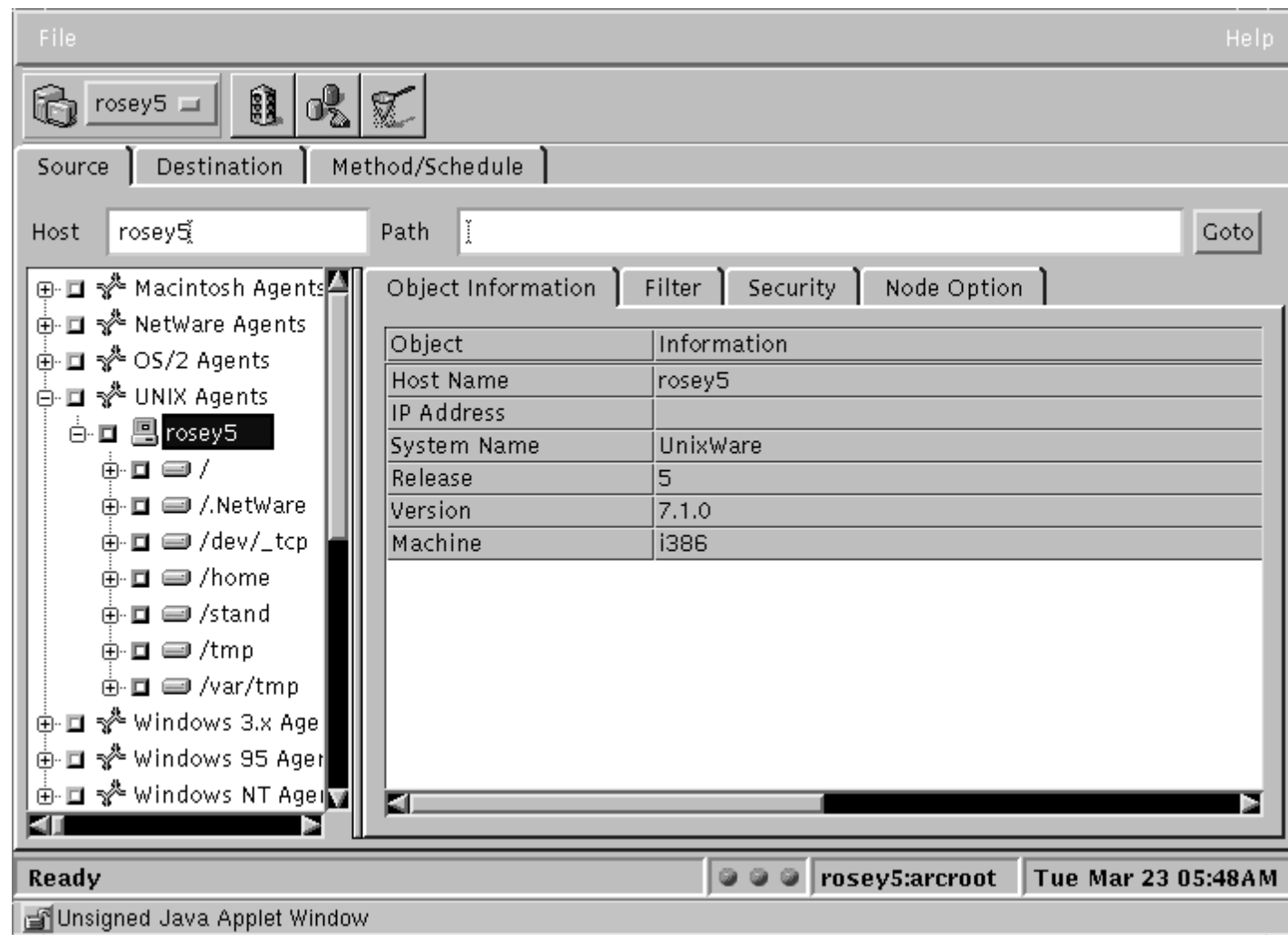
ARCserveIT Home Page



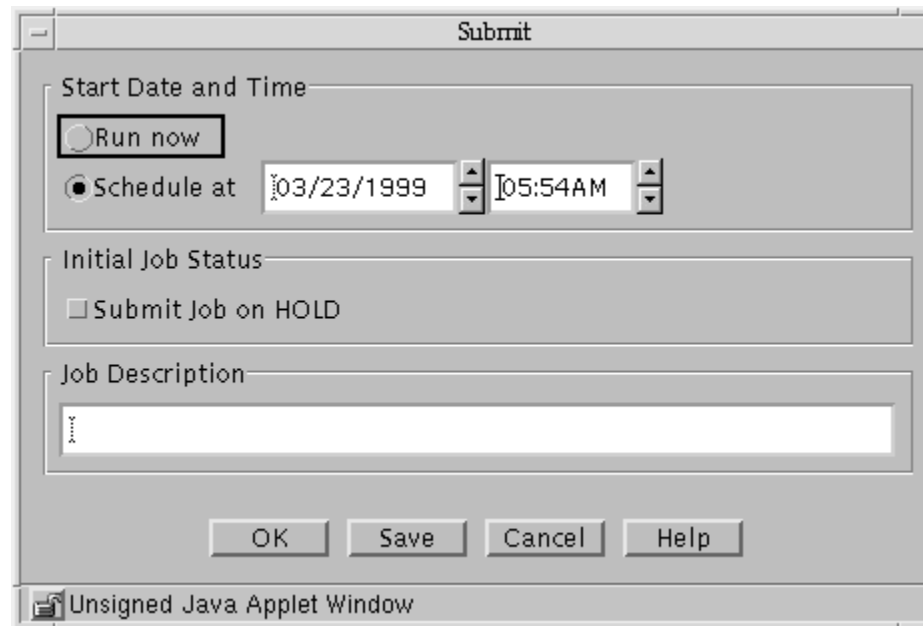
The Devices Manager



The Backup Manager



Submit



A screenshot of a Java applet window titled "Submit". The window contains three sections: "Start Date and Time" with radio buttons for "Run now" and "Schedule at" (selected), and date/time pickers; "Initial Job Status" with a checkbox for "Submit Job on HOLD"; and "Job Description" with a text area. At the bottom are "OK", "Save", "Cancel", and "Help" buttons. The status bar at the bottom left says "Unsigned Java Applet Window".

Submit

Start Date and Time

☐ Run now

☒ Schedule at 03/23/1999 05:54AM

Initial Job Status

☐ Submit Job on HOLD

Job Description

OK Save Cancel Help

Unsigned Java Applet Window

File and Directory Patterns

File Modified Before
File Modified After
File Modified Between
File Modified Within
File Created Before
File Created After
File Created Between
File Created Within
File Accessed Before
File Accessed After
File Accessed Between
File Accessed Within

Media Session Detail Report

Report Manager [1] - ARCserveIT v6.6 From Computer Associates

File Help

rose5

- Media Server Log
- Database Log
- Queue Scheduler Log
- Discovery Log
- Arcserve Log
- Authentication Log
- GFS Rotation/Rotation Daily Log
- GFS Rotation/Rotation Full Log
- User Log
- Database Report
 - Job Records Report
 - Media Records Report
 - Media Sessions Report
 - Media Session Detail Report
 - Media 03/18/99 09:10 AM(930)
 - Media 03/18/99 09:10 AM(930)
 - GFS Rotation Job Report
 - Rotation Job Report

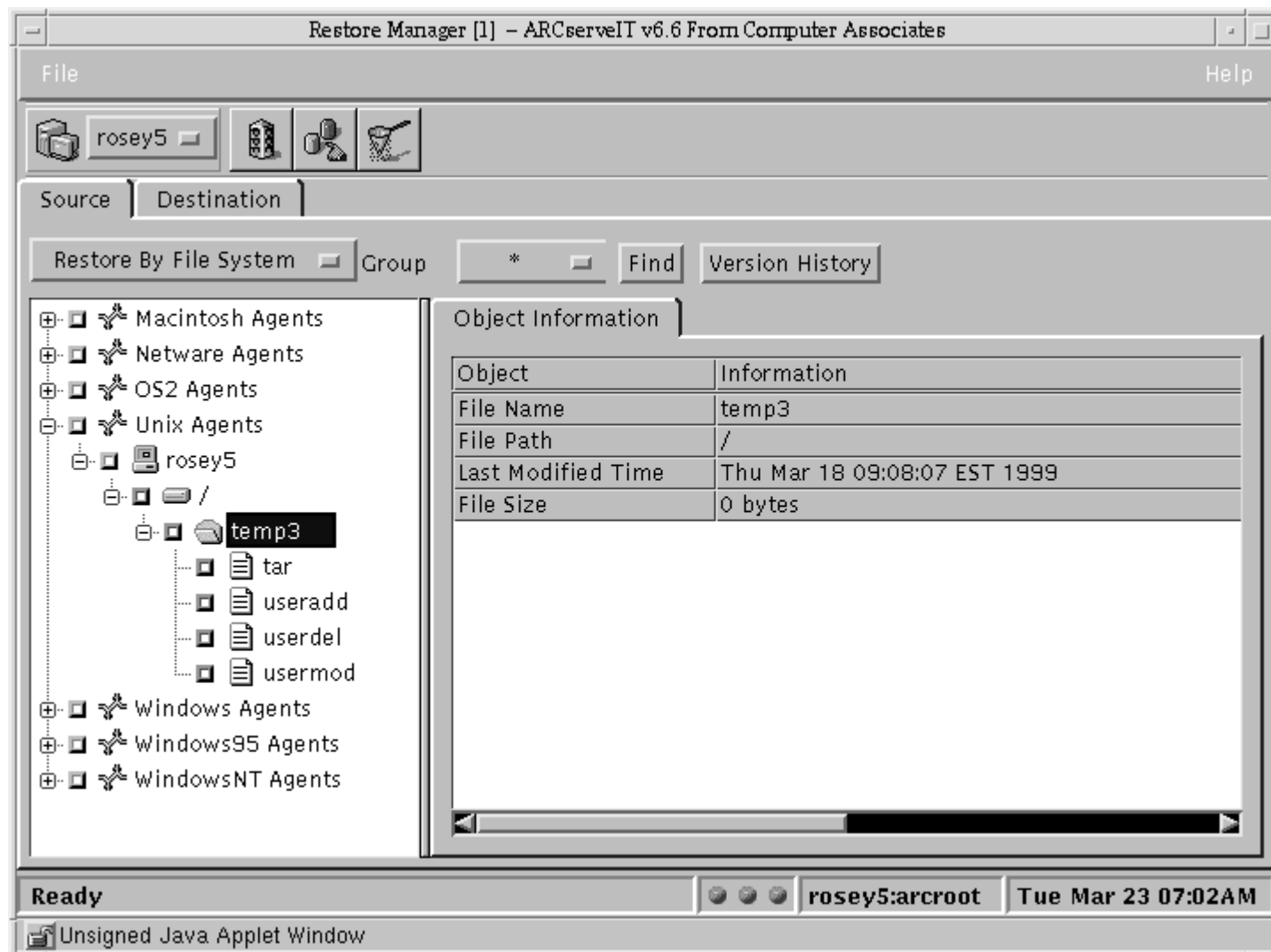
Media Name 03/18/99 09:10 AM
Session # 1 Sequence # 1 Session Complete
Started on 03/18/1999 09:10
Ended at 03/18/1999 09:10
Total files 4 Session Method
Total Kb 16 Session Flags
Host rose5
Directory: /temp3
03/18/1999 09:07 627
03/18/1999 09:08 224
03/18/1999 09:08 85
03/18/1999 09:08 1802

Ready

rose5:arcroot Tue Mar 23 06:52AM

Unsigned Java Applet Window

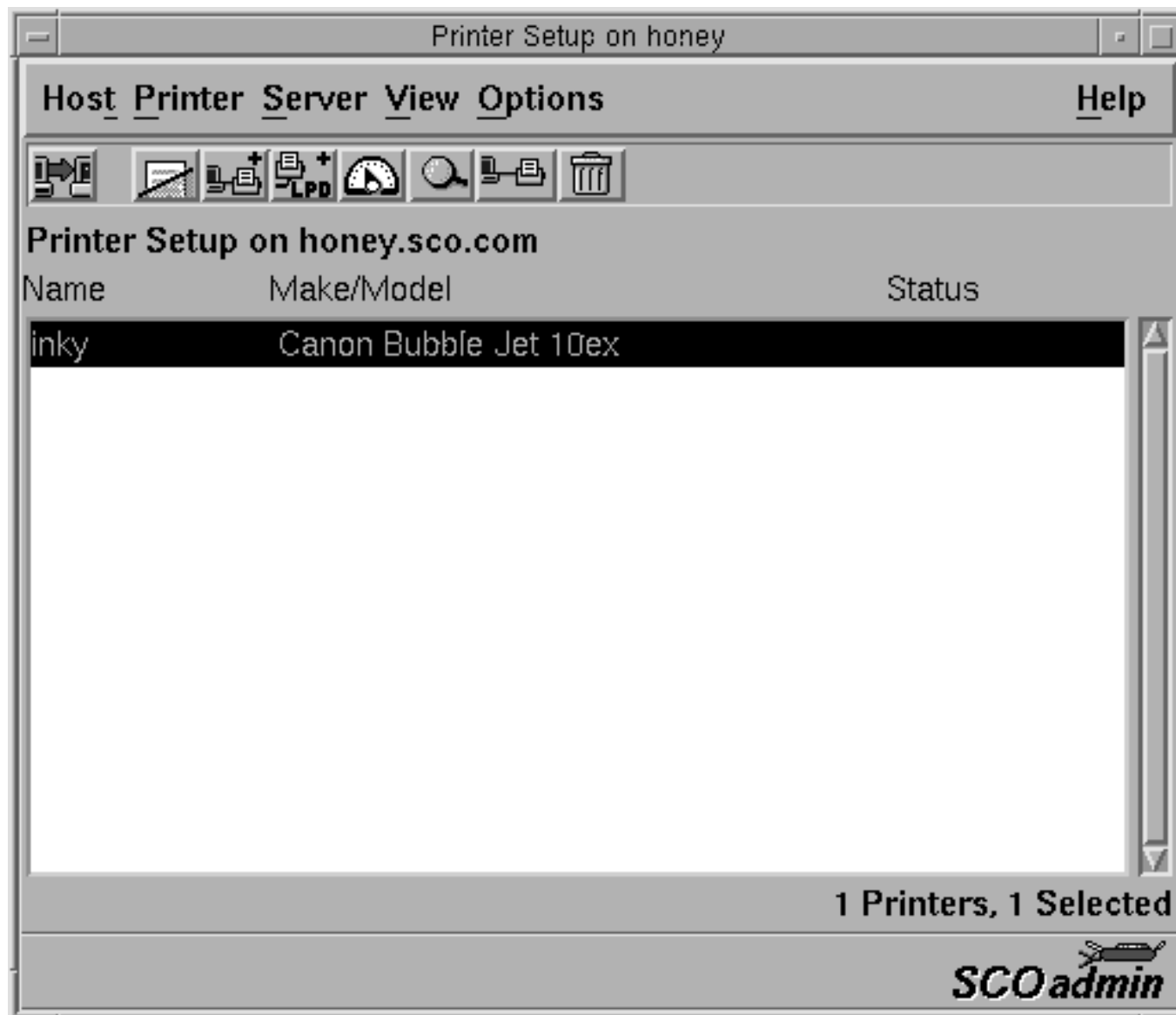
The Restore Manager



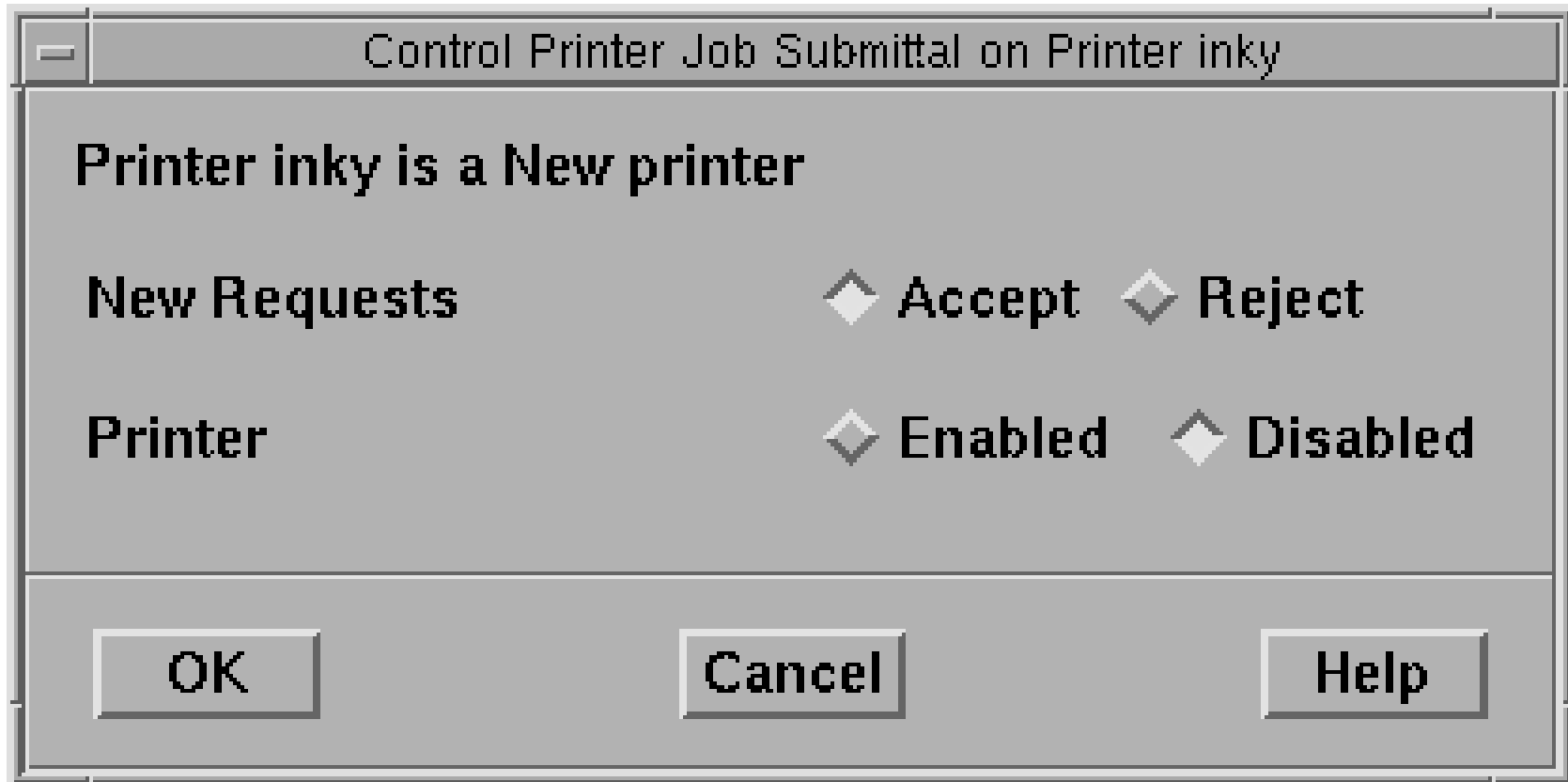
Managing Printers

- Manage the print service
- Accept and reject print jobs
- Disable and enable printers
- Manage print jobs
- View and change printer settings
- Troubleshoot printer problems

Printer Setup Manager



Printer Control



Print Job Manager

Print Job Manager on honey

Job View Options **Help**

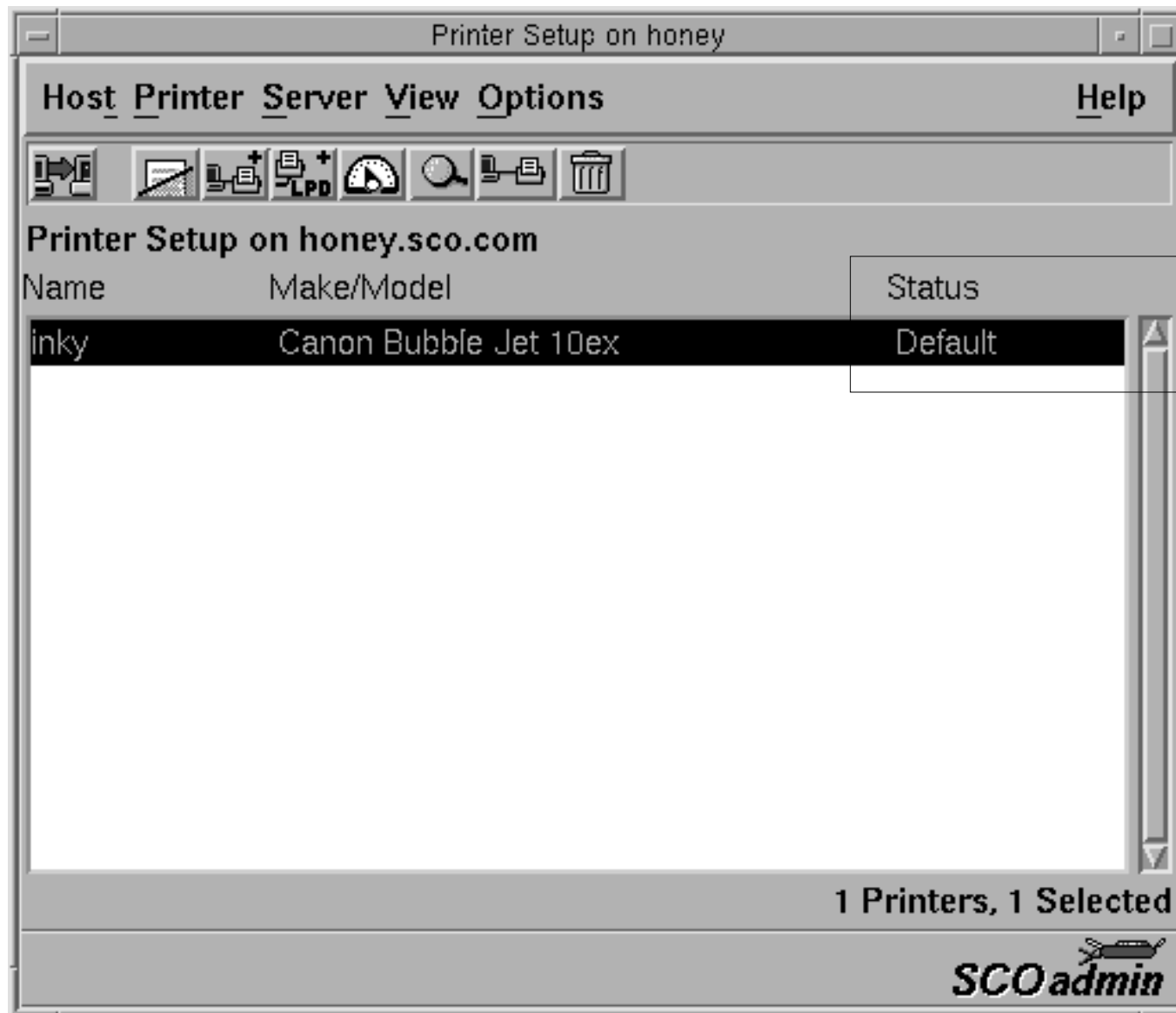
Print Jobs on honey.sco.com

Job ID	Queue	Owner	Size	Date/Time	Status
inky-1	inky	root	3175	Wed Jan 7	

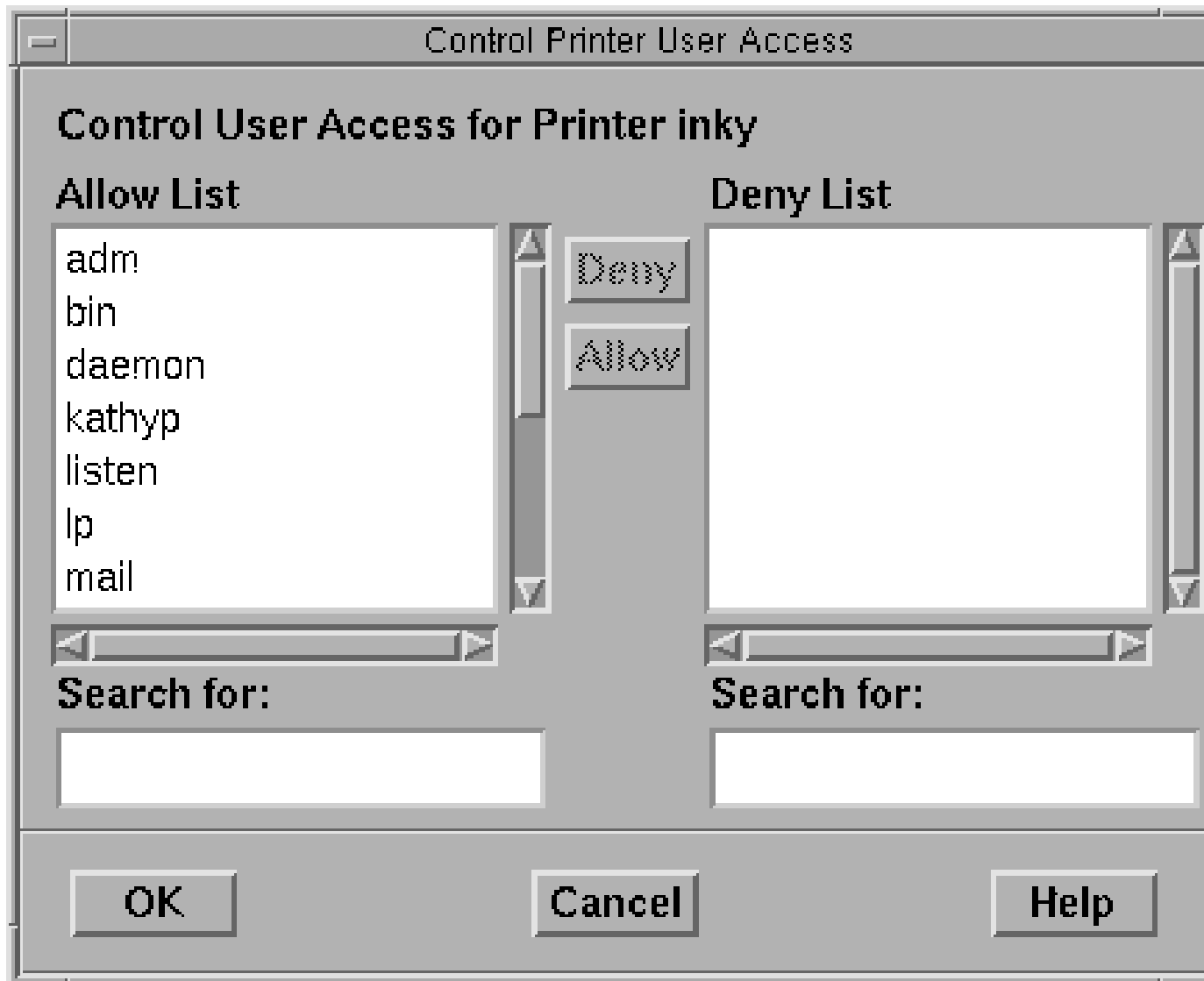
Viewing All Jobs 1 Job, 1 Selected

SCOadmin 

Default Printer



Printer Users Dialog Box



The dialog box is titled "Control Printer User Access". It contains two main sections: "Allow List" and "Deny List". The "Allow List" contains a list of users: adm, bin, daemon, kathyp, listen, lp, and mail. The "Deny List" is currently empty. Between the two lists are "Deny" and "Allow" buttons. Below each list is a "Search for:" label and a text input field. At the bottom are "OK", "Cancel", and "Help" buttons.

Control Printer User Access

Control User Access for Printer inky

Allow List

- adm
- bin
- daemon
- kathyp
- listen
- lp
- mail

Deny List

Deny

Allow

Search for:

Search for:

OK **Cancel** **Help**

Properties Dialog Box

View or Modify Printer inky

Printer Name: inky

Make/Model

Canon Bubbie Jet 10ex
Canon Bubbie Jet 130e
Canon Bubbie Jet 200
Canon Bubbie Jet 300

Connection Type ☒ Serial ☐ Parallel

Serial Settings...

Connection Port ☒ LPT1 ☐ LPT2 ☐ Other

/dev/lp

Send Mail if Printer Fails ☒ Yes ☐ No

Allow Banner Page Override ☒ Yes ☐ No

Advanced Options...

OK Cancel Help

Stopping and Starting the System

- Stop (shut down) a UnixWare 7 system
- Start (boot) a UnixWare 7 system
- Switch between system states

Shutdown Manager

System Shutdown Manager on honey

Host Shutdown Message Options [Help](#)

Delay:

0 Hours 1 Minutes

Message:

☐ Reboot after Shutdown

SCOadmin