

UNIX Supplement





Introduction

This manual describes detailed instructions on the operation and notes about the use of this machine. To get maximum versatility from this machine all operators are requested to read this manual carefully and follow the instructions. Please keep this manual in a handy place near the machine.

Important

Contents of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

Notes

For use with the following machines

- Aficio CL1000N
- Gestetner P7429cn
- nashuatec P7429cn
- Rex-Rotary P7429cn
- LANIER LP031c
- Savin CLP831

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TABLE OF CONTENTS

How to Read This Manual	1
1. UNIX Configuration	
Before Setup	
Using the lp/lpr commands	3
Using the rsh/rcp/ftp commands	3
Using the Installation Shell Script	4
Assigning the IP Address	
Executing the Installation Shell Script	
After Executing Installation Shell Script	9
Printing Method	14
Printing with lpr, lp	14
Printing with rsh, rcp, ftp	15
Printer Status	17
Viewing the Print Job Status with Ipq and Ipstat	17
Viewing the Printer Status with rsh and ftp	17
Copying Information to a File	18
Specifying the Device Option	19
Configuring the Device Option	19
Printer Language	21
Text Printing	
Input Tray	
Paper Size	
Paper Type	
Copies	
Collating	
Duplex Printing	
Binding	
Resolution	
Symbol Set	
INDEX	30

How to Read This Manual

Symbols

In this manual, the following symbols are used:

A WARNING:

This symbol indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.

A CAUTION:

This symbol indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.

* The statements above are notes for your safety.

∰Important

If this instruction is not followed, paper might be misfeed, originals might be damaged, or data might be lost. Be sure to read this.

Preparation

This symbol indicates the prior knowledge or preparations required before operating.

🖉 Note

This symbol indicates precautions for operation, or actions to take after misoperation.

Limitation

This symbol indicates numerical limits, functions that cannot be used together, or conditions in which a particular function cannot be used.

✓ Reference

1

This symbol indicates a reference.

[

Keys that appear on the machine's panel display.

Keys and buttons that appear on the computer's display.

[]

Keys built into the machine's control panel.

Keys on the computer's keyboard.

1. UNIX Configuration

This section explains how to setup a network printer and check the print status using UNIX.

Limitation

D To print from a UNIX workstation, use the file that the printer supports.

Before Setup

Setting up can vary depending on the printing commands. Make sure to make the settings accordingly.

Using the lp/lpr commands

1 Use the installation shell script to register the device option, as well as the printer host name and the IP address.

 \Rightarrow p.4 "Using the Installation Shell Script"

2 Start printing.

 \Rightarrow p.14 "Printing Method"

Using the rsh/rcp/ftp commands

1 Edit the host file to register the printer host name and the IP address.

2 Start printing.

 \Rightarrow p.14 "Printing Method"

Reference

See p.9 "After Executing Installation Shell Script" for host file editing.

🖉 Note

□ If you cannot edit the host file, use the install shell script to register the host name.

Using the Installation Shell Script

The installation shell script helps with the setup process. The installation shell script automates some of the tasks in configuring /etc/hosts, /etc/printcap, and in creating the spool directory for BSD UNIX, and in running the lpadmin command for System V UNIX.

Preparation

The installation shell script can be used on the following three kinds of workstations. This installation shell script cannot be used with other types of workstations.

- Solaris 2.5.1, 2.6, 7, 8
- HP-UX
- Red Hat Linux

Depending on the security setting when installed, rsh/rcp/% telnet may not be usable with RedHat 7.1 or later. Change the security level to the level that allows use of rsh/rcp/% telnet. For more information about how to change the setting, see the operating instructions for RedHat.

When you use NIS (Network Information Service) or DNS, you should configure the server before running this installation shell script.

For more information about the configuration utility of your OS, see the manual that comes with the utility.

Assigning the IP Address

Preparation

Configure the machine to use the TCP/IP protocol.

- Make sure that the TCP/IP protocol on the machine is set to active. (The default is active.)
- Assign an IP address to the machine and configure the other settings required for using the TCP/IP protocol.

Reference

For more information about how to make the above settings, see *Administrator Reference*.

Checking the IP address configuration

Follow the procedure below to make sure that the IP address has been configured correctly.

• The following procedure uses the sample IP address: 192.168.15.16.

Enter the following:

ping 192.168.15.16

If the address has been configured correctly, the following message appears.

192.168.15.16 is alive

If the address has been configured incorrectly, the following message appears.

```
no answer from 192.168.15.16
```

🖉 Note

When you use NIS, the IP address and host name are written to /etc/hosts on the master server. When you use DNS, the information is written to a data file on the name server. After writing the host name and IP address to the file, make sure that the configuration is correct by pinging the host name.

ping host_name

□ If the host name is registered with an IP address, the server can access the printer using its host name instead of its IP address.

Executing the Installation Shell Script

After having configured the printer IP address, follow the procedure below to execute the installation shell script and setup the workstation printing environment.

Preparation

Before executing the installation shell script, the IP address, the host name and the printer name are required.

The following procedures use sample IP address: 192.168.15.16, sample host name: nphost and sample printer name: np.

🖉 Note

□ Use ftp to get the installation shell script from the printer.

U Log on to the workstation as root.

🖉 Note

□ If you do not log on as root, the installation shell script will not run.

2 Get the installation shell script from the printer.

1 Move to the directory you want to copy the installation shell script to.

2 Use ftp to connect to the printer with the IP address that you just configured.

```
# ftp 192.168.15.16
Connected to 192.168.15.16
220 printer FTP server ready.
name (192.168.15.16:root:)
```

3 When a user name is requested, leave blank and press the [RETURN] key.

331 Password required for root. On:

4 When a password is requested, leave blank and press the **[RETURN]** key.

230 User root logged in. ftp>

5 Type the following to get the installation shell script.

```
ftp> get install
```

6 Close the ftp session.

```
ftp> bye
221 Goodbye.
#
```

3 Run the installation shell script.

```
# sh ./install
```

Note

□ Insert a period and slash before the current directory.

4 Enter a number to select the workstation OS that you are using.

```
Network printer install shell
Copyright RICOH CO.,LTD. 1994-2003
Select your workstation OS type.
1. SunOS 4.x.x
2. Solaris 2.x, Solaris 7-8 (SunOS5.x)
3. HP-UX 8.x,9.x,10.x,11.x
4. UnixWare
5. Linux
6. OpenServer
7. Quit
Enter <1-7>:
2
```

🖉 Note

SunOS, UnixWare and OpenServer appear on the screen, but they are not supported. Use Solaris, HP-UX or Linux.

□ If you select "7", the installation shell script exits.

5 Enter the IP address of the printer.

```
Enter Printer host IP address <xxx.xxx.xxx.xxx> [re-
turn=skip]:
192.168.15.16
```

🖉 Note

□ The IP address will be added to the /etc/hosts file.

□ If the host name of the printer has already been configured, press the **[RE-TURN]** key. Nothing will be added to the /etc/hosts file.

6 Enter the host name of the printer.

Enter Printer host name : nphost

- □ The host name will be added to the /etc/hosts file.
- □ If no IP address was entered in step **⑤**, nothing is added to the /etc/hosts file.

2 Configure the printer name.

Enter logical printer name [default nphost_prn]

If you want to use the default name, press the **[RETURN]** key. Enter a new name, if you want to use a different one.

🖉 Note

□ The host name entered in step **[**] followed by "_prn" appears in "default".

8 Set the print option.

Enter remote printer name [default lp]:

- Press the **(RETURN)** key, and print with PCL or PostScript is enabled.
- If you want to set the device option, enter the option parameter.

Enter remote printer name [default lp]:*tray=tray1* For more information about the device option, see p.19 "Specifying the Device Option".

• If you enter "text", text printing is enabled. If you enter "text", printing with PCL and PostScript is disabled.

Enter remote printer name [default lp]:text

Limitation

- □ You can enter up to 14 characters for HP-UX 11.0, 256 for Solaris 8 and Red Hat Linux 7.0, and 51 for Red Hat Linux 6.2.
- □ When printing with the lp command, use (_) instead of (=) and (;) instead of (,) for operating systems that cannot use (=) and (,) such as Solaris 2.5 or later.

After the installation shell script setup is complete, and if you enter the IP address in step **5**, the following message appears.

hosts file is modified

Perform a test print to make sure that the settings are correct.

```
# lpr -Pnp file_name
```

```
# lp -d np file_name
```

For more information about lpr and lp, see p.14 "Printing Method".

Deleting the printer

To print using the lp or lpr command, the option specified when the installation shell script is executed is used. Change the option in accordance with the work-station you are using.

BSD UNIX workstation, Linux

Delete the printer entry from /etc/printcap, and then execute the installation shell script again. Select options during the setup process.

Or, search the printer entry from /etc/printcap, and change its rp capability to option setting.

Solaris, HP-UX

Delete the printer entry, and then execute the installation shell script again. Select options during the setup process. To delete the printer entry, follow the procedure below.

- Stop the scheduler.
 - # /usr/sbin/lpshut
- Delete the printer.
 - # /usr/sbin/lpadmin -x printer_name
- ③ Restart the scheduler.
 - # /usr/lib/lpsched

After Executing Installation Shell Script

The printing environment is setup automatically when the installation shell script is executed.

This section describes the setup contents when the installation shell script is executed under Red Hat Linux, Solaris and HP-UX.

Linux

Adding the IP address and host name to the /etc/hosts file

The following line is added to the /etc/hosts file. The IP address and printer host name which you previously entered in the installation script will be used. 192.168.15.16 *nphost* **#** Network Printer

• **192.168.15.16** is the IP address, **nphost** is the host name, from # to the end of the line is a comment.

- □ The /etc/hosts file contains a list of the IP addresses and host names of all of the hosts communicating on the network. Each entry is delimited with a space or a tab, and each line is separated with a return.
- □ If you do not use NIS or DNS, you must manually enter the IP address and host name of each workstation using the network printer in the /etc/hosts file.

Adding an entry to the /etc/printcap file

The following entry is added to the /etc/printcap file, which is the configuration for printing with the lpr command. In order to use the lpr command to print, you need to edit the /etc/hosts file, add an entry for the network printer to the /etc/printcap file and create a spool directory.

##PRINTTOOL3## REMOTE

```
np | Network Printer:\
    :rm=nphost:\
    :rp=option:\
    :sd=/var/spool/lpd/npd:\
    :lf=/var/log/npd-errs:\
    :sh:\
    :mx#0:
```

- □ The /etc/printcap file is used to register the name and attributes of a printer. You must make an entry for the network printer in the /etc/printcap file of all workstations using the network printer.
- Each entry is separated with colons into several fields. The syntax is to begin each entry with a colon, followed by the entry, and then end with a colon, a back slash, and then a return.
- □ The first line of the field is the name of the printer. You use this name when logging on to a network printer from a workstation. You can define several different names by separating each name with the "↓" character.
- □ The second and following lines contain the printer's attributes. Attributes of the printer are represented by two character names referred to as capabilities. For more information about capabilities, see the following table.

Capability	Explanation	Value Required for the Network Printer.
rm	Host name of the printer	The host name that was registered with the /etc/hosts file
rp	Optional specification "lp" will be assigned, if the option is not used.	Select options for printing. For more information about available options, see p.19 "Specifying the Device Option".
sd	Path name of the spool directory	Path name of the spool directory that is to be created
lf	Path name of the log file	Path name of the log file. For example /var/log/lpd-errs
mx	Maximum file size which the di- rectory can copy. When the size is set to 0, the size is unlimited. If nothing is entered, the size is set to 1024 k.	None or something suitable

1

Making the spool directory

Create a spool directory under /var/spool/lpd. The name of the spool directory should be the name of the printer followed by a "d".

🖉 Note

- The spool directory is used to control the data used for a print job. For example, when a print job is created, a temporary copy of the file data used for printing is created in the spool directory. All workstations accessing the network printer require a spool directory for the network printer.
- A spool directory should be made for every network printer entry listed in the /etc/printcap file.
- □ The spool directory should normally be made under /var/spool/lpd and the name should match that listed under the sd capability in /etc/print-cap. Change the owner and group of the directory to root and lp. The following examples show how to make a /var/spool/lpd/npd spool directory.

```
# cd /var/spool/lpd
# mkdir npd
# chown root npd
# chgrp lp npd
```

Making the log file

Error messages are logged to a file created in the /var/log directory. The log file name is the printer name followed by "d-errs".

- □ The log file is used for logging some errors or warning messages by the UNIX workstation.
- The log file should be made for every network printer entry listed in the /etc/printcap file.
- □ The log file should normally be made under /var/log directory and the name should match that listed under the lf capability in /etc/printcap. Change the owner and group of the log file to root and lp. The following examples show how to make a /var/log/npd-errs file.

```
# cd /var/log
# touch npd-errs
# chown root npd-errs
# chgrp lp npd-errs
```

Solaris

Adding the IP address and host name to the /etc/hosts file

The following line is added to the /etc/hosts file. The IP address and printer host name which you previously entered in the installation script will be used.

192.168.15.16 nphost # Network Printer

• **192.168.15.16** is the IP address, **nphost** is the host name, from # to the end of the line is a comment.

Note

- □ The /etc/hosts file contains a list of the IP addresses and their host names of all of the hosts communicating on the network. Each entry is delimited with a space or a tab, and each line is separated with a return.
- If you do not use NIS or DNS, you must manually enter the IP address and host name of each workstation using the network printer in the /etc/hosts file.

Registering the printer

The installation shell script registers the printer as a remote printer.

- ① If your workstation is Solaris 2.5.1, register the print server and print client to the print service.
 - # lpsystem -t bsd -R 0 -y "Network Printer" nphost
- ② Register the printer as a remote printer.
 - # lpadmin -p np -s nphost!"option" -T dump -I any
 - **np** is the printer name, **nphost** is the host name. For more information about "option", see p.19 "Specifying the Device Option". "lp" will be assigned, if the option is not used.

When printing with the lp command, use (_) instead of (=) and (;) instead of (,) for operating systems that cannot use (=) and (,) such as Solaris 2.5 or later.

③ If your workstation is Solaris 2.5.1, set the print job to active so that it can be accepted by the print queue.

```
/usr/lib/accept np
```

④ If your workstation is Solaris 2.5.1, set the print job to active to print.

/usr/lib/enable np

HP-UX

Adding the IP address and host name to the /etc/hosts file

The following line is added to the /etc/hosts file. The IP address and printer host name which you previously entered in the installation script will be used.

192.168.15.16 np # Network Printer

• **192.168.15.16** is the IP address, **np** is the host name, from **#** to the end of the line is a comment.

🖉 Note

- □ The /etc/hosts file contains a list of the IP addresses and their host names of all of the hosts communicating on the network. Each entry is delimited with a space or a tab, and each line is separated with a return.
- If you do not use NIS or DNS, you must manually enter the IP address and host name of each workstation using the network printer in the /etc/hosts file.

Registering the printer

The installation shell script registers the printer as a remote printer by following the procedure below.

Stop the scheduler.

/usr/lib/lpshut

② Register the printer.

```
/usr/lib/lpadmin -Pnp -v/dev/null -mrmodel
```

```
-ormnphost -orp"option" -ob3
```

• **np** is the printer name, **nphost** is the host name. For more information about "option", see p.19 "Specifying the Device Option".

"lp" will be assigned, if the option is not used.

③ Set the printer so that the print job is listed in the print queue.

/usr/lib/accept np

④ Set the printer to perform the print job.

/usr/lib/enable np

(5) Restart the scheduler.

/usr/lib/lpsched

Printing Method

Printing with lpr, lp

Execute one of the following commands according to the type of workstation being used:

BSD UNIX workstation, Linux

```
% lpr -Pprinter_name file_name [file_name...]
For example:
printer name is np, file names are file1 and file2
% lpr -Pnp file1 file2
```

Solaris, HP-UX

% lp -d printer_name file_name [file_name...]
For example:

printer name is np, file names are file1 and file2

% lp -d np file1 file2

- "printer_name" is the name that was entered when executing the installation shell script.
- \Box You can use wild cards (* or ?) for the file name.
- □ The message "print session full" appears when the maximum number of print requests has been reached (Max. 5 sessions/ 10 sessions (Job Spool setting available)). You should try to print again when the number of requests is less than five. You can check the number of print requests using % telnet. For more information about using % telnet, see *Administrator Reference*.

Printing with rsh, rcp, ftp

You can also print using the rsh, rcp and ftp commands.

🖉 Note

- **D** Print using the format that the printer can support.
- If the "print requests full" message appears, no more print requests can be accepted. Try printing again when the number of session has dropped below the value shown in the following table below.

rcp, rsh	5
ftp	3

rsh

% rsh host_name print < file_name

For example:

host name is nphost, file name is file1

```
% rsh nphost print < file1
```

🔗 Note

"host_name" is the name entered when executing the installation shell script.

□ If you use a HP-UX, use the remsh command instead of rsh.

rcp

To specify and print the file

```
% rcp file_name [file_name...] host_name:
For example:
host name is nphost, file names are file1 and file2
% rcp file1 file2 nphost:
```

To print all of the files in a directory

```
% rcp -r directory_name host_name:
For example:
host name is nphost, directory name is directory1
% rcp -r directory1 nphost:
```

- **"host_name**" is the name entered when executing the installation shell script.
- \Box You can use wild cards (* or ?) for the file name.

ftp

Depending on the number of files to be printed, use the put or mput commands.

Limitation

- □ File names cannot contain "=" or ",".
- To print one file

ftp> put file_name

To print several files

ftp> mput file_name [file_name...]

Note 🖉

☐ You can use wild cards (* or ?) for the file name with the mput command. The following procedure shows an example of how to print a file using ftp. It is not possible to set options with the mput command.

U Start ftp using the IP address or host name of the printer.

% ftp IP_address

2 Enter the user name. Skip the password, and then press the [RETURN] key. Name:

Password:

3 Set the file transfer mode to binary.

ftp> bin

🖉 Note

□ If the file transfer mode is not set to binary, the image might not be printed correctly.

4 Print the file.

🖉 Note

□ For example, to print one file named file1:

- ftp> put file1
- □ For example, to print two files named file1 and file2:

ftp> mput file1 file2

5 Exit ftp.

ftp> bye

1

Printer Status

You can use the following commands to have information and the printer status displayed or copied to a file.

Use the lpq or lpstat command to display the status of the printer or information about print jobs.

Use the rsh, rcp or ftp commands to get more detailed information from the printer.

Viewing the Print Job Status with Ipq and Ipstat

```
    BSD UNIX workstation, Linux
    % lpq -Pprinter_name
    For example: Printer name is np
```

% lpq -P*np*

```
System V UNIX, Solaris, HP-UX
```

% lpstat -o printer_name
For example: Printer name is np

```
% lpstat -o np
```

🖉 Note

□ In case of HP-UX, do not put a space between "-o" and "printer name".

Viewing the Printer Status with rsh and ftp

Use the rsh or ftp command to display the status of the printer or information about print jobs using specified parameters.

You can use these command for BSD and System V UNIX.

🖉 Note

□ If your workstation is HP-UX, use the remsh command instead of the rsh command.

```
% rsh host_name parameter
```

```
% ftp host_name
User user_name
password:
ftp> get parameter -
```

🖉 Note

- □ Leave the user name and password blank, and then press the **[RETURN]** key.
- □ "-" indicates the standard output. It will be displayed on screen if the standard output has not been specified.

Parameters that can be used with rsh, rcp and ftp:

Parameter	Information returned
stat	Status of the printer
Stat	Information about print jobs
info	Information about the paper tray, output tray and printer language
prnlog	Record of the last 16 jobs printed
syslog	Record of messages about the Network Interface Board

Copying Information to a File

Use the rcp or ftp command to copy information about the specified parameters to a file.

You can use these commands for BSD and System V UNIX.

🖉 Note

```
□ The same parameters are used as those above.
```

```
% rcp host_name:parameter file_name
```

```
% ftp host_name
User: user_name
password:
ftp> get parameter file name
```

🖉 Note

□ Leave the user name and password blank, and then press the **[RETURN]** key.

Specifying the Device Option

With the following options, you can print with specific printer functions.

Configuring the Device Option

The configuration of the print option can vary depending on the printing commands.

• rsh

```
% rsh host name print option1=value1,... < file name
```

• rcp

```
% rcp file_name host_name:option1=value1, ...
```

• ftp

ftp> put file_name option1=value1,...

Host_name is the printer host name. *File_name* is the file name you want to print. The device option is specified with the form of *"option=value"*. For more information about the types of device options and values, see the following explanations.

For example, the following settings are for printing with rsh, rcp, and ftp: switch to PostScript, feed paper from paper feed tray 1, set the printing amount to 3 sets, and print with the resolution set to 600 dpi (host_name : nphost, file_name : file1).

```
• rsh
```

```
% rsh nphost print filetype=postscript,tray=tray1,cop-
ies=3,resolution=600 < file1</pre>
```

• rcp

```
% rcp file1 nphost:filetype=postscript,tray=tray1,cop-
ies=3,resolution=600
```

• ftp

```
ftp> put file1 filetype=postscript,tray=tray1,cop-
ies=3,resolution=600
```

Limitation

- □ The optional character strings that the printer can recognize are maximum 512 bytes.
- □ The number of available characters used as options are limited, depending on their operating systems.

🖉 Note

- □ Multiple options must be separated by commas (,). Do not use spaces.
- □ When the printing file contains the PCL, PJL, PostScript commands to control the option, the command takes priority.
- Enter the option using the lp or lpr command, when the shell script is implemented. The option settings you made here have been configured as a default setting. You must create the other printer if you want to change the printer option settings. For more information about changing the configured option, see p.9 "Deleting the printer".
- □ When printing with the lp command, use (_) instead of (=) and (;) instead of (,) for operating systems that cannot use (=) and (,) such as Solaris 2.5 or later.

\overline{igvee} Using the cd command with ftp

For printing with ftp, if the option is specified using the cd command, the option is available whenever the put or mput command is used.

ftp> cd option

🖉 Note

The pwd command shows the current option settings.

ftp> pwd

Device Option	Value	Function Summary
filetype	PCL, postscript (rps), pdf	Specifies the printer language for printing
filter	text	Specifies the text printing
tray	tray1, tray2, all	Specifies the input tray
paper	a4, a5, letter, halfletter, legal, executive, custom	Specifies the paper size
mediatype	plain, recycled, special, thick, transparency, color, letter- head, preprinted, labels, card- stock, glossy, plainorrecycled	Specifies the paper type
copies	Number of copies (1-999)	Specifies the number of copies
qty	Number of collated sets (1- 999)	Specifies the number to collate

Device Option	Value	Function Summary
duplex	on, off	Specifies whether duplex printing is on or off
binding	longedge, shortedge	Specifies the binding direction for duplex printing
resolution	value of resolution (300, 600, 1200)	Specifies the resolution for printing
symbol set	desktop, iso4, iso6, iso11, iso15, iso17, iso21, iso60, iso69, iso11, isol2, iso15, legal, math8, mspubl, pc8, pc850, pc852, pc8dn, pc8tk, pifont, psmath, pstext, roman8, vn- intl, vnmath, vnus, win30, win11, win12, win15	Specify the set of print charac- ters

Printer Language

Select a printer language to print in.

```
filetype=printer language
```

fil=printer language

Printer Language	Value
PCL5e	PCL
PostScript 3	postscript or rps
PDF Direct Print	pdf

The following samples show how to print with PostScript 3 (host name: nphost, file name: file1).

• rsh

```
% rsh nphost print filetype=postscript < file1</pre>
```

• rcp

% rcp file1 nphost:filetype=postscript

• ftp

ftp> put file1 filetype=postscript

Text Printing

Set this function when directly printing text files.

Limitation

D Possible only when PDF is not selected as the printer language.

filter=text

flt=text

The following samples show how to print text files directly.

• rsh

```
% rsh nphost print filter=text < file1
```

• rcp

% rcp file1 nphost:filter=text

• ftp

```
ftp> put file1 filter=text
```

Input Tray

Select a default input tray.

Limitation

□ Only the installed input trays are available.

□ Before printing a PostScript file, the input tray option must be set to on.

tray=value of input tray

Input tray	Value
Tray 1	tray1
Tray 2	tray2
Auto Tray Select	all

The following samples show how to print from tray 2 (host name: nphost, file name: file1).

• rsh

% rsh nphost print tray=tray2 < file1

• rcp

% rcp file1 nphost:tray=tray2

• ftp

ftp> put file1 tray=tray2

Paper Size

Select the paper size.

Limitation

□ Possible only when PDF is not selected as the printer language.

□ Only the loaded paper sizes are available.

paper=value of paper size

Paper Size	Value
A4	a4
A5	a5
$8^{1}/_{2} \times 11$	letter
$5^{1}/_{2} \times 8^{1}/_{2}$	halfletter
$8^{1}/_{2} \times 14$	legal
$7^{1}/_{4} \times 10^{1}/_{2}$	executive

The following samples show how to print using A4 paper (host name: nphost, file name: file1).

• rsh

% rsh nphost print paper=a4 < file1

• rcp

% rcp file1 nphost:paper=a4

• ftp

ftp> put file1 paper=a4

Paper Type

Select the paper type.

Limitation

□ Only the loaded paper types are available.

mediatype=value of paper type

Paper Type	Value
Plain paper	plain
Recycled paper	recycled
Special paper	special
Thick paper	thick
Transparency	transparency
Color paper	color
Letterhead	letterhead
Preprinted paper	preprinted
Labels	labels
Card	cardstock
Gloss paper	glossy
Plain paper or Recycled paper	plainorrecycled

The following samples show how to print using recycled paper (host name: nphost, file name: file1).

• rsh

```
% rsh nphost print mediatype=recycled < file1
```

• rcp

```
% rcp file1 nphost:mediatype=recycled
```

• ftp

% ftp> put file1 mediatype=recycled

Copies

Specify the number of copies.

```
copies=number of copies (1 to 999)
```

Limitation

 \square Do not specify "copies" and "qty *1 " commands at the same time.

*1 "qty" is the function of collation.

The following samples show how to print 10 copies (host name: nphost, file name: file1).

• rsh

% rsh nphost print copies=10 < file1

• rcp

% rcp file1 nphost:copies=10

• ftp

ftp> put file1 copies=10

Collating

Specify the number of collated sets.

qty=number of collated sets (1 to 999)

Limitation

- □ Do not specify "qty" and "copies" commands at the same time.
- You must either expand the SDRAM module or install the optional hard disk drive. When neither is present, only one part is printed when you specify "qty".

The following samples show how to print 10 copies using the collate function (host name: nphost, file name: file1).

```
• rsh
```

% rsh nphost print qty=10 < file1

```
• rcp
```

% rcp file1 nphost:qty=10

• ftp

```
ftp> put file1 qty=10
```

Duplex Printing

This option enables duplex printing.

🖉 Note

□ Before selecting the duplex option, the binding option must be set to on.

□ The print data and paper size affect the completion of the print job.

duplex=value of duplex printing

Duplex Printing	Value
Enable	on
Disable	off

₽ Reference

For more information about available paper size for duplex printing, see "Specifications", *Administrator Reference*.

The following samples show how to set duplex printing (host name: nphost, file name: file1).

• rsh

% rsh nphost print duplex=on,binding=longedge < file1</pre>

• rcp

% rcp file1 nphost:duplex=on,binding=longedge

• ftp

ftp> put file1 duplex=on,binding=longedge

For more information about available paper size for duplex printing, see "Specifications", *Administrator Reference*.

Binding

Select the binding direction of duplex printing.

🖉 Note

□ Before selecting the binding option, the duplex option must be set to on.

□ The print data and paper size affect the completion of the print job.

binding=value of binding

Binding Direction	Value
Long-edge	longedge
Short-edge	shortedge

The following samples show how to set duplex printing and longedge binding (host name: nphost, file name: file1).

• rsh

```
% rsh nphost print duplex=on,binding=longedge < file1</pre>
```

• rcp

% rcp file1 nphost:duplex=on,binding=longedge

• ftp

ftp> put file1 duplex=on,binding=longedge

Resolution

Select the printing resolution.

Limitation

- □ If you want to select the 300 dpi option, only the selected PCL5c from the printer language option is available.
- □ 300, 600, or 1200 dpi can be set when PDF is selected as the printer language.

resolution=value of resolution

Resolution	Value
300 dpi	300
600 dpi	600

The following samples show how to print with 600 dpi. (host name: nphost, file name: file1).

• rsh

```
% rsh nphost print resolution=600 < file1
```

• rcp

% rcp file1 nphost:resolution=600

• ftp

ftp> put file1 resolution=600

Symbol Set

Select the set of print characters for the selected font.

Limitation

□ Only the selected PCL5c from the printer language option is available.

symset=value of font

Font	Value
Desktop	desktop
ISO 4	iso4
ISO 6	iso6
ISO 11	iso11
ISO 15	iso15
ISO 17	iso17
ISO 21	iso21
ISO 60	iso60
ISO 69	iso69
ISO L1	isol1
ISO L2	isol2
ISO L5	isol5
Legal	legal
Math-8	math8
MS Publ	mspubl
PC-8	pc8
PC-850	pc850
PC-852	pc852
PC-8 D/N	pc8dn
PC8-TK	pc8tk
Pifont	pifont
PS Math	psmath
PS Text	pstext
Roman-8	roman8
VN Intl	vnintl
VN Math	vnmath
VN US	vnus
Win 3.0	win30

1

Font	Value
Win L1	winl1
Win L2	winl2
Win L5	winl5

The following samples show how to print a set of ISO 4 (host name : nphost, file name : file1).

• rsh

% rsh nphost print symset=iso4 < file1

• rcp

% rcp file1 nphost:symset=iso4

• ftp

ftp > put file1 symset=iso4

INDEX

В

Binding Option, 27 BSD UNIX workstation, Linux Deleting the printer, 9 Printer Status, 17 Printing Method, 14

С

Collating Option, 25 configuration UNIX, 3 Copies Option, 25

D

Deleting the printer, 9 Device Option, 19 Duplex Print *Option*, 26

F

ftp

Printing, 16

I

Input Tray Option, 22 Installation Shell Script, 6 installation shell script, 4

Ρ

Paper Size *Option*, 23 Paper Type *Option*, 24 Printer Language *Option*, 21 Printer Status, 17 Printing Method, 14 Printing with lpr, lp, 14 Printing with rsh, rcp, ftp, 15

R

rcp Printing, 15 Resolution Option, 27 rsh Printing, 15

S

Solaris, HP-UX Deleting the printer, 9 Printing Method, 14 Symbol Set Option, 28 System V UNIX, Solaris, HP-UX Printer Status, 17

Т

Text Printing Option, 22

U

UNIX, 3



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