

UNIX Supplement



Introduction

This manual contains detailed instructions and notes on the operation and use of this machine. For your safety and benefit, read this manual carefully before using the machine. Keep this manual in a handy place for quick reference.

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

This manual covers all models, and therefore contains functions and settings that may not be available for your model.

Functions and supported operating systems may differ from those of your model.

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Manuals for This Machine

Refer to the manuals that are relevant to what you want to do with the machine.

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☐ The printed and electronic versions of a manual have the same contents.

☐ Adobe Acrobat Reader/Adobe Reader must be installed in order to view the manuals as PDF files.

☐ Depending on which country you are in, there may also be html manuals. To view these manuals, a Web browser must be installed.

☐ For details about the functions of RW-3600, refer to the manuals for this option.

About This Machine

Be sure to read the Safety Information in this manual before using the machine. This manual provides an introduction to the functions of the machine. It also explains the control panel, preparation procedures for using the machine, how to enter text, and how to install the CD-ROMs provided.

General Settings Guide

Explains User Tools settings, and Address Book procedures such as registering fax numbers, e-mail addresses, and user codes. Also refer to this manual for explanations on how to connect the machine.

Trouble Shooting

Provides a guide to solving common problems, and explains how to replace paper, toner, and other consumables.

❖ Security Reference

This manual is for administrators of the machine. It explains security functions that the administrators can use to protect data from being tampered, or prevent the machine from unauthorized use.

Also refer to this manual for the procedures for registering administrators, as well as setting user and administrator authentication.

❖ Copy/ Document Server Reference

Explains Copier and Document Server functions and operations. Also refer to this manual for explanations on how to place originals.

❖ Printer Reference

Explains Printer functions and operations.

Scanner Reference

Explains Scanner functions and operations.

❖ Network Guide

Explains how to configure and operate the machine in a network environment, and use the software provided.

Other manuals

- Manuals for This Machine
- Safety Information
- Quick Reference Copy Guide
- Quick Reference Printer Guide
- Quick Reference Scanner Guide
- PostScript3 Supplement
- UNIX Supplement
- Manuals for DeskTopBinder Lite
 - DeskTopBinder Lite Setup Guide
 - DeskTopBinder Introduction Guide
 - Auto Document Link Guide

8	Note
	Manuals provided are specific to machine types.
	For "UNIX Supplement", please visit our Web site or consult an authorized dealer.
	"PostScript3 Supplement" and "UNIX Supplement" include descriptions of

functions and settings that might not be available on this machine.

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How to Read This Manual

Symbols

This manual uses the following symbols:

MARNING:

Indicates important safety notes.

Ignoring these notes could result in serious injury or death. Be sure to read these notes. They can be found in the "Safety Information" section of About This Machine.

CAUTION:

Indicates important safety notes.

Ignoring these notes could result in moderate or minor injury, or damage to the machine or to property. Be sure to read these notes. They can be found in the "Safety Information" section of About This Machine.

#Important

Indicates points to pay attention to when using the machine, and explanations of likely causes of paper misfeeds, damage to originals, or loss of data. Be sure to read these explanations.

Note

Indicates supplementary explanations of the machine's functions, and instructions on resolving user errors.

This symbol is located at the end of sections. It indicates where you can find further relevant information.

[]

Indicates the names of keys that appear on the machine's display panel.

Indicates the names of keys on the machine's control panel.

1. UNIX Configuration

This section explains how to set up a network printer and check print status using UNIX.

Before Setup

#Important

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

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

Using the Ip / Ipr commands

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

See p.4 "Using the Installation Shell Script".

2 Start printing.

See 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.

See p.14 "Printing Method".

See p.9 "After Executing the 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; creating the spool directory for BSD UNIX; and running the lpadmin command for System V UNIX.

∰Important

- ☐ The installation shell script can be used on the following workstations: (it cannot be used with other types of workstations.)
 - SunOS 4.x.x
 - Solaris 2.x (SunOS 5.x), Solaris 7, Solaris 8,
 - HP-UX
 - Redhat Linux
 - UnixWare
 - OpenServer

Note

- □ Depending on security settings when installed, rsh / rcp /telnet may not be usable with Red Hat 7.1 or later. Change the security level to allows use of rsh / rcp /telnet. For details about how to change the setting, see the operating instructions for Red Hat.
- ☐ When you use NIS (Network Information Service) or DNS, you should configure the server before running the installation shell script.
- ☐ Installation shell script does not support CUPS. For details about the settings of CUPS, see the manual that comes with the UNIX workstation , and the CUPS' manual.
- ☐ When you use Solaris and HP-UX, you can set UNIX configuration with admintools that came with Solaris and HP-UX. For details about setting using the admintools, see the admintool's manual.

For details about the configuration utility of your operating system, see the manual that came with the utility.

Assigning the IP Address

∰Important

- ☐ Configure the machine to use TCP/IP.
 - Make sure that TCP/IP on the machine is set to active. (Default setting is active.)
 - Assign an IP address to the machine and configure the other settings required for TCP/IP.

For details about how to make the above settings, see the manual that comes with this machine.

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.

1 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.

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

Having configured the printer IP address, follow the procedure below to execute the installation shell script and set up the workstation printing environment.

∰Important

- ☐ Before executing the installation shell script, the IP address, host name and printer name are required.
- ☐ The following procedures use the sample IP address: 192.168.15.16; sample host name: nphost; and sample printer name: np.
- ☐ Download the installation shell script from our Web site. Keep the installation shell script as local folders.
- **1** Move to the directory that has kept the installation shell script.
- **2** Run the installation shell script.

```
# sh ./install
```

Insert a period and slash before the current directory.

Enter a number to select the workstation operating system that you are using.

```
Network printer install shell
Select your workstation OS type
1.SunOS 4.x.x
2.Solaris 2.x, Solaris 7-9 (SunOS 5.x)
3.HP-UX
4.UnixWare
5.Linux
6.OpenServer
7.Quit
Enter <1-7>:
```

If you select "7", the installation shell script ends.

4 Enter the printer's IP address.

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

If the host name of the printer has already been configured, press the **[RETURN]** (**[ENTER]**) key. Nothing will be added to the /etc/hosts file.

5 Enter the printer's host name.

```
Enter Printer host name : nphost
```

If no IP address was entered in step **4**, nothing is added to the /etc/hosts file.

6 Configure the printer name.

Enter logical printer name [default nphost_prn]

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

The host name entered in step **5** followed by "_prn" appears in "default".

2 Set the print option.

Enter remote printer name [default lp]:

- Press the [RETURN] ([ENTER]) key, and printing with PostScript is enabled.
- If you want to set the device option, enter the option parameter.

Enter remote printer name [default lp]:tray=tray1

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

Enter remote printer name [default lp]:text

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.

After setup with the installation shell script is complete, and if you entered the IP address in step **4**, the following message appears:

hosts file is modified

- Berform a test print to make sure that the settings are correct.
 - # lpr -Pnp file_name
 - # lp -d np file_name

Note

- ☐ SunOS, UnixWare, and OpenServer appear on the screen, but they are not supported. Use Solaris, HP-UX, or Linux.
- \square The IP address will be added to the /etc/hosts file.
- $\hfill \square$ The host name will be added to the /etc/hosts file.
- ☐ 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.

For details about how to download the installation shell script, contact your sales or service representative.

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

For details about the device option, see p.19 "Specifying the Device Option".

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 workstation 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.

Alternatively, 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:

- ① Stop the scheduler.
 - # /usr/sbin/lpshut
- ② Delete the printer.
 - # /usr/sbin/lpadmin -x printer_name
- ③ Restart the scheduler.
 - # /usr/lib/lpsched

After Executing the Installation Shell Script

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

This section describes 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 the comment.

𝚱 Note

- ☐ The /etc/hosts file contains a list of the IP addresses and host names of all 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:
```

Note

- ☐ 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.
- ☐ You must make an entry for each printer option when using the same 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 are represented by two-character names referred to as capabilities. For details 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 details 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 directory can copy. When 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 data used for print jobs. For example, when a print job is created, a temporary copy of the data used is created in the spool directory. All workstations accessing the network printer need to have 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/printcap. 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".

𝚱 Note

- ☐ The log file is used for logging 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 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 the comment.

𝚱 Note

- ☐ The /etc/hosts file contains a list of IP addresses and host names of all 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 following the procedure below:

- 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 details 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 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

1

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 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 the comment.

Note

- ☐ The /etc/hosts file contains a list of IP addresses and host names of all 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 following the procedure below:

① Stop the scheduler.

/usr/lib/lpshut

② Register the printer.

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

- -ormnphost -orpoption -ob3
- **np** is the printer name, **nphost** is the host name. For details about "option", see p.19 "Specifying the Device Option". "lp" will be assigned, if the option is not used.
- ③ Set the printer so 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 Ipr, Ip

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

```
❖ BSD UNIX workstation, Linux
```

```
% lpr -Pprinter_name file_name [file_name...]
For example:
The 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:
```

The printer name is np, file names are file1 and file2

Note

- □ "printer_name" is the name entered when executing the installation shell script.
- \square 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 —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 details about using telnet, see the manual that comes with this machine.
- ☐ The number of print sessions does not change, whether you increase or reduce the machine's total memory size.

Printing with rsh, rcp, ftp

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

Note

- ☐ Print using a format the printer supports.
- ☐ You should try to print again when the number of requests is zero.
- ☐ The message "print session full" appears when the maximum number of print requests is reached.
- ☐ The maximum number of print sessions varies depending on the command. When using the rsh, rcp command, the maximum number of print sessions is 5; when using the ftp command, the number is 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 are using 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 directory

% rcp -r directory1 nphost:

Note

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

ftp

Use the put or mput commands depending on the number of files to be printed.

∰Important

- ☐ File names cannot contain "=" or ",".
- ☐ You can use wild cards (* or?) for the file name with the mput command.
- **❖** To print one file

ftp> put file_name

❖ To print several files

```
ftp> mput file_name [file_name...]
```

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:

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

% ftp IP_address

Enter the user name. Skip the password, and then press the [RETURN] ([ENTER]) key.

Name:

Password:

3 Set the file transfer mode to binary.

ftp> bin

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

4 Print the file.

For example, to print the file named file1:

ftp> put file1

For example, to print the two files named file1 and file2:

ftp> mput file1 file2

Exit ftp.

ftp> bye

1

Printer Status

You can use the following commands to have information and 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 -Pnp

System V UNIX, Solaris, HP-UX

% lpstat -o printer_name

For example: Printer name is np

% lpstat -o np

Note

 \square If you are using 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 printer status or information about print jobs using specified parameters.

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

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

• rsh

% rsh host_name parameter

ftp

% ftp host_name

User user_name

password:

ftp> get parameter -

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

Parameter	Information returned
stat	Status of the printer.
	Information about print jobs.
info	Information about the paper tray, output tray and printer language.
prnlog	Record of the last 10 jobs printed.
syslog	Record of messages about the network interface board.

Note

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

Copying Information to a File

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

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

∰Important

- \Box The same parameters are used as those above.
- rcp

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

• ftp

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



☐ Leave the user name and password blank, and then press the [RETURN] ([ENTER]) key.

Specifying the Device Option

With the following options, you can print with specific printer functions. This manual covers all models, and therefore contains functions and settings that may not be available for your model.

Configuring the Device Option

∰Important

- ☐ The optional character strings the printer can recognize contain a maximum of 512 bytes.
- ☐ The number of available characters used as options is limited, depending on operating systems.

The configuration of the print option varies, depending on 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 in the form of "option=value". For details about 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,copies=3, resolution=600 < file1</pre>

• rcp

% rcp file1 nphost:filetype=postscript,tray=tray1,copies=3, resolution=600

ftp

ftp> put file1 filetype=postscript,tray=tray1,copies=3,
resolution=600

Note

- ☐ Multiple options must be separated by commas (,). Do not use spaces.
- ☐ When the printing file contains the PostScript commands control of the option, the command takes priority.
- ☐ Enter the option using the lp or lpr command, when the shell script is implemented. The option settings made here are configured as default. You must create another printer if you want to change printer option settings. For details about changing the configured option, see p.8 "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.

Using the cd command with ftp

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

ftp> cd option

Note

☐ The pwd command shows the current option settings.

ftp> pwd

List of the device options

Device option	Value	Function summary
filetype	rpcs, postscript (rps), pdf	Specifies the printer language for printing.
filter	text	Specifies the text printing.
tray	tray1~tray3, lct, bypass, all	Specifies the input tray.
paper	a0~a4, a3wide, jisb1~jisb3, ansic, ledger, letter, legal, foolscap, inch9×12, inch18×24, inch21×30, inch22×34, inch24×36, inch30×42, inch34×44, inch36×48, custom	Specifies the paper size.
papertype	plainorrecycled, plain, recycled, translucent, film, auto	Specifies the paper type.
outbin	lower, upper	Specifies the output tray.
copies	Number of copies (1–9999)	Specifies the number to collate.
qty	Number of collated sets (1–999)	Specifies the number to collate.
orientation	portrait, landscape	Specifies the feed direction of the paper.
resolution	value of resolution (200, 300, 400, 600)	Specifies the resolution for printing.
fold	off, zigzag, zigzagfile	Specifies the folding position.
foldwidth	140, 170, 210	Specifies the foldwidth.

Printer Language

Select a printer language to print.

filetype=printer language

fil=printer language

Printer language	Value
RPCS	rpcs
PostScript 3	postscript or rps
PDF	pdf

The following sample shows how to print with PostScript 3 (host name: nphost, file name: file1):

• rsh

% rsh nphost print filetype=postscript < file1

• rcp

% rcp file1 nphost:filetype=postscript

• ftp

ftp> put file1 filetype=postscript

Text Printing

Set this function when printing text files directly.

filter=text

The following sample shows 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.

∰Important

☐ Only installed input trays are available.

tray=value of input tray

Input tray	Value
Tray 1	tray1
Tray 2	tray2
Tray 3	tray3
Bypass tray	bypass
Auto Tray Select	all

The following sample shows 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.

∰Important

 \square Only the loaded paper sizes are available.

paper=value of paper size

Paper size	Value
A0	a0
A1	a1
A2	a2
A3	a3
12 × 18	a3wide
A4	a4
B1JIS (Japanese Industrial Standard)	jisb1
B2JIS	jisb2
B3JIS	jisb3
17 × 22	ansic
11 × 17	ledger
$8^{1}/_{2} \times 11$	letter
$8^1/_2 \times 14$	legal
$8^{1}/_{2} \times 13$	foolscap
9×12	inch 9×12
18×24	inch 18×24
21×30	inch 21×30
22×34	inch 22×34
24×36	inch 24×36
30×42	inch 30×42
34×44	inch 34×44
36×48	inch 36×48

The following sample shows how to print using A4 size 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.

∰Important

☐ Only the loaded paper types are available.

mediatype=value of paper type

Paper type	Value
Plain paper/recycled paper	plainorrecycled
Plain paper	plain
Recycled paper	recycled
Translucent	translucent
Film	film
Auto Paper Select	auto

The following sample shows 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

Output Tray

Select the output tray.

outbin=value of output tray

∰Important

☐ Only installed output trays are available.

	Value	
lower, upper		

For details about available output tray, see the manual that comes with this machine.

The following sample shows how to print to the standard tray (standard tray: upper, host name: nphost, file name: file1):

- rsh
 - % rsh nphost print outbin=upper < file1
- rcr
 - % rcp file1 nphost:outbin=upper
- ftp
- ftp> put file1 outbin=upper

Copies

Specify the number of copies.

copies=number of copies (1 to 9999)

∰Important

- ☐ Do not specify "copies" and "qty *1" commands at the same time.
- *1 "qty" specifies the number of collated sets.

The following sample shows 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)
```

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

- rsh
 - % rsh nphost print qty=10 < file1
- rcr
 - % rcp file1 nphost:qty=10
- ftp

ftp> put file1 qty=10

Resolution

Select the printing resolution.

resolution=value of resolution

Resolution	Value
600 dpi	600
400 dpi	400
300 dpi	300
200 dpi	200

The following sample shows how to print with 600 dpi and better quality. (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

Fold

Select the folding position for the output.

∰Important

☐ When using this option, the optional folding finisher unit is required.

fold=value of folding position

Position	Value
Fan Fold	zigzag
Margin Fold	zigzagfile
Off	off

The following sample shows how to print with the fold on the lower tray (host name : nphost, file name : file1, lower tray: lower):

rsh

% rsh nphost print fold=zigzag,outbin=lower

rcp

% rcp file1 nphost:fold=zigzag,outbin=lower

• ftn

ftp> put file1 fold=zigzag,outbin=lower

Note

☐ Available fold positions vary depending on type of installed output tray. For details about staple, see the manual that comes with this machine.

Foldwidth

Specifies the foldwidth.

∰Important

☐ This function requires the optional folding finisher unit. Select the fold option to "zigizag".

foldwidth=value of Foldwidth

Foldwidth	Value
140 mm	140
170 mm	170
210 mm	210

The following sample shows how to print with foldwidth set to 140 mm, and with "Fan Fold" setting (host name: nphost, file name: file1, fold: zigzag, foldwidth: 140).

• rsh

% rsh nphost print fold=zigzag,foldwidth=140,outbin=lower

• rcp

% rcp file1 nphost:fold=zigzag,foldwidth=140,outbin=lower

• ftp

ftp> put file1 fold=zigzag,foldwidth=140,outbin=lower

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