

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 several different 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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How to Read This Manual

Symbols

This manual uses the following symbols:

#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 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.

See p.9 "After Executing 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".

Reference

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.

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(Sun OS 5.x), Solaris 7, Solaris 8
 - HP-UX
 - Red Hat 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.

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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

☐ 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 (SunOS5.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> [re-
turn=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

- **8** Perform 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.
- ☐ The IP address will be added to the /etc/hosts file.
- ☐ 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.

₽ Reference

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.

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.
1f	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.

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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/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".

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

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.

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 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

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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

```
% lp -d np file1 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

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

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

∰Important

ftp

- ☐ 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

E Exit ftp.

ftp> bye

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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
```

System V UNIX, Solaris, HP-UX

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

∅ Note

% lpq -Pnp

☐ 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.
Stat	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

- \square 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

Note

☐ 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 that control the options, 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



☐ The pwd command shows the current option settings.

ftp> pwd

List of the device options

Device option	Value	Function summary.
filetype	rpcs (rcs), pcl, postscript (rps), pdf	Specifies the printer language for printing.
filter	text	Specifies the text printing.
tray	tray1~tray7, bypass, inserter, inserter2, all	Specifies the input tray.
paper	a3, a3wide, a4, a5, a6, jisb4, jisb5, jisb6, ledger, letter, halfletter, legal, executive, fgl, foolscap, folio, k8, k16, inch11x14,inch12d6x18d5, inch12d6x19d2, inch13x18, inch13x19d2, inch13x19, mm226x310, mm310x432, governmentlg, engquatro, sra3, sra4, custom	Specifies the paper size.
mediatype	plain, recycled, special, thick, thick2, thick3, thin, tabstock, transparency, letterhead, preprinted, prepunched, labels, bond, cardstock, translucent, usercolor1, usercolor2, yellow, green, blue, purple, ivory, orange, pink, red, gray, middlethick, plainorrecycled, coated, auto	Specifies the paper type.
outbin	upper, finishershift, finisher- proof, finisherbooklet, stack- er, stacker2, stackerproof, ringstacker, foldproof, load- ingtray, optionaloutputbin1, optionaloutputbin2, optionaloutputbin3, optionaloutputbin4, optionaloutputbin5, optionaloutputbin6, optionaloutputbin7, optionaloutputbin8, optionaloutputbin9	Specifies the output tray.
copies	Number of copies (1–9999)	Specifies the number to collate.
qty	Number of collated sets (1–9999)	Specifies the number to collate.
duplex	on, off	Specifies whether duplex printing is on or off.
binding	longedge, shortedge, left, right, top	Specifies the binding direction for duplex printing.

Device option	Value	Function summary.
orientation	portrait, landscape	Specifies the feed direction of the paper.
image direction	normal, reverse	Specifies the print image rotation.
resolution	value of resolution (200, 300, 600, 1200)	Specifies the resolution for printing.
billing code	Value of billing code (0x09(<ht>), 0x20-0xFF (except 0x22))</ht>	Specifies the billing code.
fold	gatefold4, inside3, outside3, simple4, two, zbottom, zleft, zright, off	Specifies the folding position.
staple	off, lefttopslantport, left- topslantland, lefttopvertport, lefttopvertland, leftto- phorizport, lefttophorizland, left2port, left2land, right- topslantport, righttopslant- land, righttopvertport, righttopvertland, rightto- phorizport, righttophoriz- land, right2port, right2land, top2port, top2land, booklet, lefttop, righttop	Specifies the staple position.
punch	off, leftport, leftland, right- port, rightland, topport, top- land	Specifies the punch position.
punchhole	multi, us2, eu4, jp2, neu4, us3	Specifies the number of punch holes.
ringbindmode	off, punch, ring	Specifies the ringbindmode.
perfectbind	off, on	Specifies the perfectbind.
perfectbindpapertray	all, tray1, tray2, tray3, tray4, tray5, tray6, tray7	Specifies the source tray for the body paper of the perfect-bound booklet.
perfectbindcoverimagehoriz- adjustment	-32768.0 – 32767.0	Specifies the horizontal position of the print image on the cover page of the perfect-bound booklet.
perfectbindcoverimagevert- adjustment	-32768.0 – 32767.0	Specifies the vertical position of the print image on the cover page of the perfect-bound booklet.
perfectbindcoverprint	duplex, inner, outer, off	Specifies whether or not the cover page of the perfect-bound booklet is printed on.

Device option	Value	Function summary.
perfectbindcovertray	tray1, tray2, tray3, tray4, tray5, tray6, tray7, bindinsert- er, bindinserter2	Specifies the source tray for the cover page paper of the perfect-bound booklet.
perfectbindpapercustom- length	0.0 – 32767.0	Specifies the length of the finished perfect-bound booklet.
perfectbindpapercustom- width	0.0 – 32767.0	Specifies the width of the finished perfect-bound booklet.
perfectbindpapersize	a3, jisb4, a4, jisb5, a5, jisb6, a6, ledger, legal, letter, halfletter, executive, fgl, foolscap, folio, k8, k16, custom, a3wide, inch11x14, inch12d6x18d5, inch12d6x19d2, inch13x18, inch13x19d2, inch13x19, mm226x310, mm310x432, governmentlg, engquatro, sra3, sra4	Specifies using standard paper sizes the size of the finished perfect-bound booklet.
trimmode	off, singlecut, triplecut, singlecutfinishsize, triplecutfinishsize	Specifies the trim mode applied to the perfect-bound booklet.
triplecutfinishsize	a4, jisb5, a5, letter, halfletter, custom	Specifies using standard paper sizes the size of the finished perfect-bound booklet when three-edge trimming is applied.
triplecutfinishsizecustom- length	0.0 – 32767.0	Specifies the length of the fin- ished perfect-bound booklet when three-edge trimming is applied.
triplecutfinishsizecustom- width	0.0 – 32767.0	Specifies the width of the finished perfect-bound booklet when three-edge trimming is applied.
singlecutfinishsizelength	0.0 – 32767.0	Specifies the length of the finished perfect-bound booklet when single-cut trimming is applied.
topcut	0.0 – 32767.0	Specifies the width of the top edge cut applied to the perfect-bound booklet.
bottomcut	0.0 – 32767.0	Specifies the width of the bottom edge cut applied to the perfect-bound booklet.
sideedgecut	0.0 – 32767.0	Specifies the width of the side- edge cut applied to the per- fect-bound booklet.

Device option	Value	Function summary.
trimtrimmode	off, singlecut	Specifies whether or not the side edge is trimmed by the trimmer.
trimsideedgecut	0.0 – 32767.0	Specifies the width of the side- edge cut applied to the trim- mer.
user code	Value of user code (0x21 to 0x7e, except 0x22)	Specifies the user code.
symbol set	desktop, iso4, iso6, iso11, iso15, iso17, iso21, iso60, iso69, iso11, isol2, isol5, legal, math8, mspubl, pc8, pc850, pc852, pc8dn, pc8tk, pifont, psmath, pstext, roman8, vnintl, vnmath, vnus, win30, win11, win12, win15	Specifies the set of print characters.

Printer Language

Select a printer language to print.

filetype=printer language

fil=printer language

Printer language	Value
RPCS	rpcs or rcs
PCL 5c or PCL 5e	pcl
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
Tray 4	tray4
Tray 5	tray5
Tray 6	tray6
Tray 7	tray7
Bypass tray	bypass
Inserter	inserter
Inserter 2	inserter2
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

Note

☐ The value or actions that can be selected differ depending on the model you are using. For details about available tray, see the manual that comes with this machine.

Paper Size

Select the paper size.

∰Important

- ☐ Only the loaded paper sizes are available.
- ☐ When PostScript 3 is selected in Printer Language, and a custom paper size that exceeds "297x418.4 mm" is specified, a printout is counted as an A3 size output. Be careful if you are using the charge option, etc.

paper=value of paper size

Paper size	Value
A3	a3
12 × 18	a3wide
A4	a4
A5	a5
A6	a6
B4JIS (Japanese Industrial Standard)	jisb4
B5JIS	jisb5
B6JIS	jisb6
11 × 17	ledger
$8^{1}/_{2} \times 14$	legal
$8^1/_2 \times 11$	letter
$5^1/_2 \times 8^1/_2$	halfletter
$7^1/_4 \times 10^1/_2$	executive
8 × 13	fgl
$8^1/_2 \times 13$	foolscap
$8^{1}/_{4} \times 13$	folio
10 ¹ / ₂ × 15.35 (267 × 390 mm)	k8
$7.68 \times 10^{-1}/_{2} (195 \times 267 \text{ mm})$	k16
11 × 14	inch11x14
12.6 × 18.5	inch12d6x18d5
12.6 × 19.2	inch12d6x19d2
13 × 18	inch13x18
13 × 19.2	inch13x19d2
13 × 19	inch13x19
226 × 310 mm	mm226x310
310 × 432 mm	mm310x432

Paper size	Value
8.25 × 14	governmentlg
8 × 10	engquatro
SRA3	sra3
SRA4	sra4
Custom Size	custom

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



☐ The value or actions that can be selected differ depending on the model you are using. For details about available paper size, see the manual that comes with this machine.

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
Special paper	special
Thick paper	thick
	thick2
	thick3
Thin paper	thin
Tabstock	tabstock
OHP transparency	transparency
Letterhead	letterhead

Paper type	Value
Preprinted paper	preprinted
Prepunched paper	prepunched
Labels	labels
Bond paper	bond
Cardstock	cardstock
Translucent	translucent
Usercolor1	usercolor1
Usercolor2	usercolor2
Yellow	yellow
Green	green
Blue	blue
Purple	purple
Ivory	ivory
Orange	orange
Pink	pink
Red	red
Gray	gray
Semi thick paper	middlethick
Coated paper	coated
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

Note

☐ The value or actions that can be selected differ depending on the model you are using. For details about available paper type, see the manual that comes with this machine.

Output Tray

Select the output tray.

outbin=value of output tray

∰Important

☐ Only installed output trays are available.

Value

upper, finishershift, finisherploof, finisherbooklet, stacker, stacker2, stackerploof, ringstacker, foldploof, loadingtray, optionaloutputbin1, optionaloutputbin2, optionaloutputbin3, optionaloutputbin4, optionaloutputbin5, optionaloutputbin6, optionaloutputbin7, optionaloutputbin9

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: finishershift, host name: nphost, file name: file1):

• rsh

% rsh nphost print outbin=finishershift < file1

• rcp

% rcp file1 nphost:outbin=finishershift

• ftp

ftp> put file1 outbin=finishershift

Note

☐ The value or actions that can be selected differ depending on the model you are using. For details about available output tray, see the manual that comes with this machine.

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 9999)
```

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
- rcn
 - % rcp file1 nphost:qty=10
- ftp

ftp> put file1 qty=10

Duplex Printing

This option enables duplex printing.

∰Important

 \Box The duplex unit is required.

duplex=value of duplex printing

Duplex printing	Value
enable	on
disable	off

The following sample shows how to set duplex printing (host name: nphost, file name: file1):

• rsh

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

• rcp

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

• ftp

ftp> put file1 duplex=on,binding=longedge

- Note
- ☐ Before selecting duplex, the binding option must be set to on.
- $\hfill\square$ Data and paper volume affect the completion of the print job.

For details about available paper size for duplex printing, see the manual that comes with this machine.

Binding

Select the binding direction for duplex printing.

∰Important

 \Box The duplex unit is required.

binding=value of binding

Binding direction	Value
Longedge	longedge
Shortedge	shortedge
Left	left
Right	right
Тор	top

The following sample shows how to set duplex printing and long-edge binding (host name: nphost, file name: file1):

• rsh

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

• rcp

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

• ftp

ftp> put file1 duplex=on,binding=longedge

Note

- ☐ Before selecting the binding option, the duplex option must be set to on.
- ☐ Data and paper volume affect completion of the print job.

1

Orientation

Select the paper feed orientation.

#Important

☐ This function is only for PCL.

orientation=feed direction (portrait or landscape)

Orientation	value
Portrait	portrait
Landscape	landscape

The following sample shows how to print the paper vertically using the orientation function (host name : nphost, file name : file1):

• rsh

% rsh nphost print orientation=portrait < file1

• rcp

% rcp file1 nphost:orientation=portrait

• ftp

ftp> put file1 orientation=portrait

Image Direction

Select the print image rotation.

imagedirection=value of print image rotation

Rotation	Value
0 degree	normal
180 degrees	reverse

The following sample shows how to print the 180 degrees rotation using the imagedirection function (host name : nphost, file name : file1):

• rsh

% rsh nphost print imagedirection = reverse < file1

rcp

% rcp file1 nphost: imagedirection = reverse

• ftp

ftp> put file1 imagedirection = reverse

Resolution

Select the printing resolution.

resolution=value of resolution

Resolution	Value
1200 dpi	1200
600 dpi	600
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

Billing Code

Specifies the billing code.

billingcode=Value of billingcode $(0x09(\langle HT \rangle), 0x20-0xFF(except 0x22))$

- *1 MAX 228 bytes = 255byte (Max number of characters allowed for each PJL command line on GW-PJL source) 27 bytes (number of characters for @PJL SET BILLING-CODE = ""<CR><LF>)
- rsh

% rsh nphost print billingcode=0x09 < file1

• rcp

% rcp file1 nphost: billingcode=0x09

ftp

ftp> put file1 billingcode=0x09

- Note
- □ Note that PJL syntax allows unlimited spaces (for example, more than one space can be placed between "@PJL" and "SET," or before/after the "=" sign).
- ☐ Therefore, a password can be less than the maximum value (228 bytes).
- ☐ This also implies the maximum value (228 bytes) is secured as long as the normal syntax is used.

Select the folding position for the output.

∰Important

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

fold=value of folding position

Position	Value
Gate fold	gatefold4
Three fold In	inside3
Three fold Out	outside3
Double Parallel fold	simple4
Two fold	two
Bottom fold	zbottom
Left fold	zleft
Right fold	zright
Off	off

The following sample shows how to print with the fold on the upper left using finisher shift tray (host name : nphost, file name : file1, finisher shift tray: finisherproof):

- rsh
 - % rsh nphost print fold=zright,outbin=finisherproof <
 file1</pre>
- rcp
 - % rcp file1 nphost:fold=zright,outbin=finisherproof
- ftp

ftp> put file1 fold=zright,outbin=finisherproof

Note

☐ Available fold positions vary depending on type of installed output tray.

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Staple

Select the staple position for the output.

∰Important

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

staple=value of staple position

Position	Value
Off	off
Left top	lefttop
Right top	righttop
Left top horiz	lefttophorizland, lefttophorizport
Left top slant	lefttopslantland, lefttopslantlport
Left top vert	lefttopvertland, lefttopvertport
Right top horiz	righttophorizland, righttophorizport
Right top slant	righttopslantland, righttopslantport
Right top vert	righttopvertland, righttopvertport
Left 2	left2land, left2port
Right 2	right2land, right2port
Top 2	top2land, top2port
Booklet	booklet

The following sample shows how to print with the staple on the upper left using finisher shift tray (host name : nphost, file name : file1, finisher shift tray):

- rsh
 - % rsh nphost print staple=lefttop,outbin=finishershift <
 file1</pre>
- rcp
 - % rcp file1 nphost:staple=lefttop,outbin=finishershift
- ftr

ftp> put file1 staple=lefttop,outbin=finishershift

Note

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

Punch, Punchhole

Select the punch position for the output and the number of punch holes.

∰Important

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

punch=value of punch position

Position	Value
Off	off
Left	leftport
	leftland
Right	rightport rightland
	rightland
Тор	topport topland
	topland

punchhole=value of punchhole

Available numbers of punch holes may vary depending the type of installed Punch Kit. Specify an appropriate value referring to the table below.

Number of punch holes	Value
2	jp2, us2
3	us3
4	eu4, neu4
Multi	multi

The following sample shows how to print with four punch holes on the left using finisher tray 1 (host name : nphost, file name : file1, finisher tray 1: finishershift).

• rsh

% rsh nphost print punch=leftport,punchhole=eu4,outbin=finishershift < file1</pre>

rcp

% rcp file1 nphost:punch=leftport,punchhole=eu4,outbin=finishershift

ftp

ftp > put file1 punch=leftport,punchhole=eu4,outbin=finishershift

Note

- ☐ Available punch positions may vary depending the type of installed output tray. For details about punch, see the manual that comes with this machine.
- ☐ When "punchhole" is not specified, the machine executes the punch function by the default number of punch holes.
- ☐ When "punchhole" is not specified correctly, the machine does not execute the function.

Ring Binding

You can specify the ring binding mode.

#Important

☐ When using this option, the optional ring binder is required.

ringbindmode=value of ring bind mode

Ring Binding	Value
Off	off
Punch	punch
Ring	ring

The following sample shows how to set ring binding (host name: nphost, file name: file1):

• rsh

% rsh nphost print ringbindmode=ring < file1

rcp

% rcp file1 nphost:ringbindmode=ring

• ftp

ftp> put file1 ringbindmode=ring

Note

☐ The value or actions that can be selected differ depending on the model you are using. For details about available output tray, see the manual that comes with this machine.

Perfect Binding

You can specify the perfect binding mode and the position and width of the page edge cut.

#Important

☐ When using this option, the optional perfect binder is required.

perfectbind=value of perfect binding

Perfect Binding	Value
Off	off
On	on

perfectbindpapertray=value of perfect bind paper tray

Perfect bind paper tray	Value
All	all
Tray 1	tray1
Tray 2	tray2
Tray 3	tray3
Tray 4	tray4
Tray 5	tray5
Tray 6	tray6
Tray 7	tray7

perfectbindcoverimagehorizadjustment=value of vertical image position on perfect binding cover page (-32768.0 to 32767.0)

perfectbindcoverimagevertadjustment=value of horizontal image position on perfect binding cover page (-32768.0 to 32767.0)

perfectbindcoverprint=value of perfect bind cover print

perfect bind cover print	Value
Duplex	duplex
Inner	inner
Outer	outer
Off	off

perfectbindcovertray=value of perfect bind cover tray

perfect bind cover tray	value
Tray 1	tray1
Tray 2	tray2
Tray 3	tray3
Tray 4	tray4
Tray 5	tray5
Tray 6	tray6
Tray 7	tray7
Bindinserter 1	bindinserter1
Bindinserter 2	bindinserter2

perfectbindpapercustomlength=value of perfect bound booklet finished length (0.0 to 32767.0)

perfectbindpapercustomwidth=value of perfect bound booklet finished width (0.0 to 32767.0)

perfectbindpapersize=value of perfect bound booklet finished size

Paper size	Value
A3	a3
12 × 18	a3wide
A4	a4
A5	a5
A6	a6
B4JIS (Japanese Industrial Standard)	jisb4
B5JIS	jisb5
B6JIS	jisb6
11 × 17	ledger
$8^1/_2 \times 14$	legal
$8^{1}/_{2} \times 11$	letter
$5^1/_2 \times 8^1/_2$	halfletter
$7^1/_4 \times 10^1/_2$	executive
8 × 13	fgl
$8^{1}/_{2} \times 13$	foolscap
$8^{1}/_{4} \times 13$	folio
$10^{1}/_{2} \times 15.35 (267 \times 390 \text{ mm})$	k8
$7.68 \times 10^{-1}/_{2} (195 \times 267 \text{ mm})$	k16

Paper size	Value
11 × 14	inch11x14
12.6 × 18.5	inch12d6x18d5
12.6 × 19.2	inch12d6x19d2
13 × 18	inch13x18
13 × 19.2	inch13x19d2
13 × 19	inch13x19
226 × 310 mm	mm226x310
310 × 432 mm	mm310x432
8.25 × 14	governmentlg
8 × 10	engquatro
SRA3	sra3
SRA4	sra4

trimmode=value of perfect bind trimming mode

Trimming mode	Value
Off	off
Singlecut	singlecut
Singlecut (finishsize)	singlecutfinishsize
Triplecut	triplecut
Triplecut (finishsize)	triplecutfinishsize

Note

- □ you must specify sideedgecut also. If you specify singlecutfinishsize, you must specify singlecutfinishsizelength also.
- ☐ If you specify triplecut, you must specify topcut, bottomcut, and sideedgecut also.
- ☐ If you specify triplecutfinishsize, you must specify triplecutfinishsize, triplecutfinishsizecustomlength, and triplecutfinishsizecustomwidth also.

singlecutfinishsizelength=value of finished page length (0.0 to 32767.0)

topcut=value of top cut width (0.0 to 32767.0)
bottomcut=value of bottom cut width (0.0 to 32767.0)
sideedgecut=value of side edge cut width (0.0 to 32767.0)

triplecutfinishsize=value of finished size when trimming on three edges

Finished size	Value
A4	a4
JISB5	jisb5
A5	a5
Letter	letter
Halfletter	halfletter
Custom	custom

triplecutfinishsizecustomlength=value of finished length when trimming on three edges (0.0 to 32767.0)

triplecutfinishsizecustomwidth=value of finished width when trimming on three edges (0.0 to 32767.0)

The following example commands apply three-edge trimming to a perfect-bound, letter-size booklet (host name: nphost, file name: file1):

- rsh
 - % rsh nphost print perfectbind=on, trimmode=triplecutfinishsize, perfectbindpapersize=letter < file1</pre>
- rcp
 - % rcp file1 nphost: perfectbind=on, trimmode=triplecutfinishsize, perfectbindpapersize=letter
- ftp

ftp> put file1 perfectbind=on, trimmode=triplecutfinishsize, perfectbindpapersize=letter

Cut Fore Edge

You can specify trimming of the fore edge using the trimmer.

trimtrimmode=value of trim mode

Trim mode	Value
Off	off
Singlecut	singlecut

trimsideedgecut=value of trimming width on side edge (0.0 to 32767.0)

If you specify trimtrimmode, you must specify trimsideedgecut also.

The following example commands apply booklet stapling and a fore edge trim of 12.7 mm (host name: nphost, file name: file1):

• rsh

% rsh nphost print staple=booklet, trimtrimmode=singlecut, trimsideedgecut=12.7 < file1</pre>

rcp

% rcp file1 nphost: staple=booklet, trimtrimmode=singlecut, trimsideedgecut=12.7

ftp

ftp> put file1 staple=booklet, trimtrimmode=singlecut, trimsideedgecut=12.7

User Code

Specifying the user code.

Usercode=\"value of user code\"

Specify the user code using up to eight alphanumeric characters (0x21 to 0x7e, except 0x22).

The user code must be inside double quotation marks (" ").

Some operating systems cannot forward the user code if it is inside double quotation marks. If this is the case, include escape characters such as back slashes (\setminus) (0x5c) in place of double quotation marks.

• rsh

% rsh nphost print usercode=/"12345/" < file1

• rcp

% rcp file1 nphost: usercode=/"12345/"

ftp

ftp> put file1 USERCODE=/"12345/"

Note

☐ If you are printing with the ftp command, enter the user code in uppercase letters.

Symbol Set

Select the set of print characters for the chosen font.

∰Important

 \square This function is only for PCL.

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
Win L1	winl1

П

Font	Value
Win L2	winl2
Win L5	winl5

The following sample shows how to print the ISO 4 character set (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

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