

Setting up networked printers:

cgfry: 22-Mar-06 – The new version of makePrinter works fine with VNMR6.1C and Solaris 8 or 9. Note especially the comments in the readme file for *networked* printers (as differentiated from *remote* printers). A *networked* printer is one that sits freely attached to an ethernet cable. A *remote* printer is one that is attached to another computer, and through it connected to ethernet.

For a *networked* printer:

1. Setup the printer name and IP address in the /etc/hosts file (might not be necessary if the dns server is working, but then again, why not let your Sun know about it in the hosts file).
2. Remove any existing printers, and any earlier versions of makePrinter on your system. See the makePrinter readme file for details.
3. Install the newest version of makePrinter, following the instructions in the readme.
4. For the printer:
 - Printername: enter any name (but not lp; e.g., shadowp)
 - Hostname: use the printer name in /etc/hosts (e.g., shadowp)
 - Server: Network
 - PrinterPort: Ethernet
5. For the plotter:
 - Printername: enter any name (e.g., shadowplot)
 - Hostname: use the printer name in /etc/hosts (e.g., shadowp)
 - Server: Network
 - PrinterPort: Ethernet

The following is left posted for older systems that might be incompatible with VNMR6.1C and newer versions of Solaris and makePrinter.

Setting up print queues with hpadmin

cgfry: 9-Dec-98 – for Solaris 2.6 and VNMR 5.3b or 6.1a

cgfry: 6-Jan-98 – Dick Fronko at Microside has a potential solution that looks much simpler than that shown below. I list next Dick's email to varnet, but have not yet checked to see if it works for myself (please let Dick and me know if you try it and it works for you!):

To all-

The Intrepid IS person here has used HP's jetadmin to workaroud the stair step problem. We used the following steps to set up remote printing.

1. Delete all printers in admintool. Anything that you have set up before should be removed.

2. In Jetadmin, configure BOTH a plotter and printer spool, something to translate the text for the printer must exist. Otherwise, if you use, for example, an lplot spool, this sends stuff to the printer with out translation.
3. Use VNMR's adddevices to set up the correct plot and print spools that you need.

The way to think of this is that the computer is acting as a server to send printing instructions, not as a portal. We now have full printing and plotting capability under VNMR 5.3 and 6.1a. Our UNIX is 2.5.1. If there are more detailed questions please feel free to ask.

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=====+=====
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=====+=====
```

Here goes my solution, which Dick fortunately may have made useless:

1. login as vnmr1, then `su` to root privilege
2. place SOLd515.PKG in the `/var/tmp` directory on the sun
3. use **pkgadd -d SOLd515.PKG all** to start the installation
4. use `/opt/hpnp` as the default location unless `/opt` is not big enough
5. answer "y" to conflicting files question (if asked), and to continue
6. after finishing, reboot with **init 6**
7. login as vnmr1, then `su` to root privilege
8. type **jetadmin** (in `/opt/hpnp`, but shouldn't need to go there) and check installation by using option **2** (diagnostic) then **1** (verify installation of software); D.05.15 ver.
9. add a printer to the local spooler, option **1** then **3**
10. use name **shadowp** (for example) for printer; make sure LP Destination is identical (remove -1 from actual queue name; see step 13)
11. install makePrinter; go back to vnmr1 user (not sure makePrinter is really necessary; `/vnmr/bin/adddevices` seems to work ok)
 - a) get newest version from online, copy `makePrinter.tar.Z` into `/vnmr/userlib/bin`
 - b) as su **mkdir /export/home/printers** and **chown vnmr1:nmr /export/home/printers**
 - c) as vnmr1 and at `/vnmr/userlib:` **extract bin makePrinter /export/home**
 - c) as su goto `/export/home/printers` and install with `./install`
12. as su goto `/export/home/printers/bin` to run with **./makePrinter**
 - a) delete any old printers not being used (but NOT shadowp)
 - b) make a new printer **Shadow_plot** (for example) as plotter, remote, shadowp, ASCII, Laserjet_300, 8x11.5
 - c) make a new printer **lp** (must use this name!) as printer, remote, shadowp, ASCII, Laserjet_300, 8x11.5

13. go back into jetadmin and use **1** then **5** to modify shadowp as default; make sure queue name is shadowp (remove any -l or _l ending)
14. should print at unix prompt: eg. **lp ~vnmr1/.cshrc**
15. should print in vnmr using **printon dg printoff** (but only if vnmrprint is modified so that the default printer is shadowp not lp; see vnmrprint example)

VNMR /vnmr/bin/vnmrprint example for use with network printer to a printer name shadowp

```

: '@(#)vnmrprint.sh 11.2 07/16/96 Copyright (c) 1991-1996 Varian
Assoc.,Inc. All Rights Reserved'
#
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# prior consent.
#
# vnmrprint
#
# General purpose print shell for the VNMR system
#
# Usage vnmrprint filename [printcap]
#
# If no printcap is entered, lp will be the default
# Note that PostScript printers do not use portrait
#
# On IRIX, lp for local printers and lpr for remote printers
#

if [ $# -eq 0 -o $# -gt 4 ]
then
    echo vnmrprint: Usage - vnmrprint filename \[printerName \[printType
\[clear \[ filename \]\]\]
    exit 1
fi

ostype=`vnmr_uname`

propt="lpr -P"
EXPAND="expand"

if [ x$ostype = "xSOLARIS" ]
then
    propt="lp -s -o nobanner -d"
fi

if [ $# = 1 ] # No printerName given, use default
then
    if [ x$ostype = "xAIX" ]
    then
        prcmd=$propt"lp0"
    else
        prcmd=$propt"shadowp"
    fi
else
    if [ $2 = lp ]

```

```

        then
            prcmd=$propt"shadowp"
        else
            prcmd=$propt"$2"
        fi
    fi

if [ $# -lt 3 ]
then
    if [ x$ostype = "xSOLARIS" ]
    then
        $EXPAND $1 | fold | sed -e 's/^/      /' | $prcmd
    else
        $EXPAND $1 | sed -e 's/^//' | fold | $vnmrsystem/bin/portrait |
$prcmd
    fi
else
    if [ $# = 3 ] # printerType is given, remove file after printing
    then
# If PostScript or SOLARIS, do not use portrait
        if [ $3 = PS_A -o $3 = PS_AR -o x$ostype = "xSOLARIS" ]
        then
            $EXPAND $1 | fold | sed -e 's/^/      /' | $prcmd
        else
            $EXPAND $1 | sed -e 's/^//' | fold |
$nmrsystem/bin/portrait | $prcmd
        fi
        echo "Printing started."
        rm $1
    else
        if [ $# = 4 ] # if a fourth argument is give then either clear
                    # or write to the filename
        then
            if [ x$4 = "xclear" ]
            then
                rm -f $1
                if [ x$2 = "xnone" -a x$3 = "xnone" ]
                then
                    echo "Printer not defined. Printing turned off."
                else
                    echo "Print file removed."
                fi
            else
                mv $1 $4
                echo "Print file saved to file $4."
            fi
        fi
    fi
fi

```