2.   SOFTWARE INSTALLATION

This chapter describes how to install Medley on Sun Workstations.

To install the Medley Release on a Sun Workstation, you need the following:

• Release tape

• Medley documentation kit for the Sun Workstation.

Getting Ready to Install Medley

Medley includes a shell script for automatic installation. The script infers as much as it can about your host and network, but will prompt you for answers when needed. Once it has collected the necessary information, it installs only those parts of Medley that you really need.

Do not worry if you forget something. You can run the installation again, and pick up any items you missed.

Before installing Medley, you should gather some facts about the hardware and network environment on which you will be using Medley. The following checklist will help you.

• Do you have the correct release tape correct for the kind of machine on which you plan to run?

   The tape is labeled either Sun-3 or Sun-4/SPARCstation.

• Where is the tape drive you will be using?

   Does your Sun have a ¼-inch tape drive? If not, you need a Sun with a ¼-inch tape drive on your network. You will need to know the host name for that machine.

• Does your system have sufficient swap space (45 MB) for Medley?

   If you are not sure, see the section below for instructions.

• Are you installing Medley for a single user, or will several users be sharing this copy?

   If it is for shared use, you will want to install Medley on a public directory on a shared server. For that, we recommend using `/usr/share/lde` as the directory name. You will need to be running on the server when you do the installation, and you will probably need to log in as `root`. Check with your System Administrator for details.

• Do you have enough disk space free ?

   You need to select a file system with enough disk space to install the software. A minimal installation requires approximatelly 12 MB, and a full installation will require up to 23 MB.   Use the UNIX command `df` to find one.

• Have you selected an installation directory?

   The directory must be on a file system with enough space. For individual use, we recommend `/usr/local/lde`.

CAUTION

If the installation directory contains a previously installed version of Medley, some of the older files will be replaced with new ones.

- Do you have write permission to create the installation directory and to write files into it?

- Will you be running on X Windows?

  If you are, you will need X11 R4 or Motif. If you have X Windows installed, the utility will install the software necessary to run Medley under X11.

- Will you be running XNS (Xerox Network Services) or PUP protocols?

  – If so, you must be logged in as `root` during the installation.

  – If so, be sure you are not running SunOS 3.5 Kernel XNS Ethernet Code ("Alpine Kernel").

- If your host is networked, do you have XNS (Xerox Network Services) servers on it?

  If so, you will want to install XNS-relevant software. Also, if you have XNS Print Services and InterPress printers on your network, you might want to install InterPress fonts, allowing you to use an InterPress printer from within Medley. The default is not to install any XNS-relevant software.

- Is this a new installation, or are you upgrading from an earlier version of Medley?

  If you are upgrading, you only need to install the sysout, the appropriate emulator, and library files. If you are making a new installation, you will need at least the display fonts as well.

Ensuring Adequate Swap Space

Medley requires 45 MB of swap space on top of the normal swap space requirements. Check swap space using the `pstat` command:

```
prompt%  /etc/pstat -s
37176k used (3176k text), 12920k free, 1344k wasted, 0k missing
max process allocable = 10224k
avail: 5*2048k 1*512k 4*256k 3*128k 6*64k 7*32k 7*16k 40*1k
4800k allocated + 2520k reserved = 7320k used, 64672k available
```

If you need more swap space, consult the *Sun Software Technical Bulletin, March 1988,* pages 335-36, for information on increasing the amount of available swap space.

Installing Medley for Shared Use

If several people will be be using Medley on different machines, it probably makes sense to install one copy and have people share it.

You will need to find one machine—probably your main file server—with enough disk space. You will also want to have the directory look the same to every user. We recommend calling the installation directory `/ur/share/lde`.

Installing Medley Software

1. Log in under your username.

   login *yourname*

2. Put the tape in the tape drive. The script will allow you to install from a tape drive on a remote host. If you are performing a remote installation, put the tape in the tape drive of the host.

3. Retrieve the installation utility from the tape, as follows.

   • If the tape drive is on a different host, enter the following:

   rsh *remote-host* **dd if=/dev/rst0 | tar xf -**

   Replace *remote-host* with the name of the host on your network that has the tape drive you are using. This copies the file install-medley to your working directory.

   • If the tape drive is local to your machine, type the following:

   tar xf /dev/rst0

   This copies the file install-medley to your working directory.

   If you have any problems during this step of the installation, consult your local UNIX system administrator.

4. Run the installation utility:

   install-medley

   Each time you are prompted for information, the script will show you the default in [ ] brackets. Pressing the return key selects the default. To select a different option, type it.

   After installing Medley, the script will offer to update two files which must refer to the installation directory. We recommend this. The two files are:

   medley   A script for running Medley easily

   site-init A sample site-init file

You can stop the installation process at any time by typing ↑**C** (Control-C).

Using the Installation Script's Menu

To choose an option from the Installation Options Menu, type at least the first three characters of the selection. Most of the menu lists items you might want to install. Choosing one of these options works as a toggle switch, either selecting or deselecting, depending on its previous setting. The other menu items act as commands when you select them. "OS version" lets you pick the SunOS version(s) for which you will need matching emulators. "Directory" lets you specify where to install Medley. "!" lets you use UNIX commands if you need to.

In Figure 2-1, the user has selected for installation the Sysout, Monochrome and X Windows emulators for SunOS 4.1, Display fonts, and Library modules. The menu shows that you need 15052.8 KB of disk space to finish the installation, but only 13002 KB are available. At this point you can either deselect an option to decrease the disk space requirements, or change the installation directory to one that has sufficient disk space.

```
        <---------------> Installation Options Menu <--------------->
        ----------------------- Emulators ------------------------
        For one or several OS versions (At least one of monochrome,
        color or X11-version is required for new installations)
           x   Monochrome - 0.5 MByte
           -   Color
           x   X11-version - 0.6 MByte
           -   XNS - allows use of XNS protocols
           -   Object files - allows linking of Medley to other software
               OS version - Change versions. Selected: 4.1
        ------------------------- Fonts -------------------------------
           x   Display - 5.5 MByte (recommended)
           -   Interpress
        ----------- Sysout, Library & Checksum files -------------------
           x   Sysout - 5.1 MByte (required for new installations)
           x   Library modules - 3 MByte (recommended)
           -   Checksum files
        ----------------------- Commands ------------------------------
               Directory - Change location of installation directory.
                 -- Current: /usr/share/lde 13002 KB
                 -- Disk-space(KByte) Available:13002 Needed:15052.8
               !<Unix command> - Execute a Unix command
               ? or Help - Show menu instructions
               Redraw - Redisplay this menu
               None - Unmark all options
               All - Mark all options
               Continue installation
               Quit installation
        Select [Directory]:
```

Figure 2-1. Sample Installation Menu

Because of the disk space shortage, the script has offered [Directory] as the default next command. If that is what you want, just press Return. Otherwise, type some other command.

For example, to deselect Library modules, **type:**

```
Select [Directory]:lib
```

Alternately, to find a filesystem with enough disk space, issue the following command:

```
Select [Directory]: !df
```

```
    Filesystem          kbytes       used      avail   capacity Mounted on
    /dev/sd0a             7548        4935       1858      73%    /
    /dev/sd0g            75106       51704      15891      76%    /usr
    /dev/sd1g            47999       21898      21301      51%    /home
    king:/shared        416928      349202      26042      93%    /share
    Select [Directory]:
```

To change the installation directory, type:

```
Select [Directory]:dir
```

At the new prompt, give the directory name:

```
Where do you want to install Medley? [/usr/share/lde]: /share/lde
```

If the directory does not exist, the script will attempt to create it.

Getting a Copy Protection Key

Before starting Medley, you must first obtain a host access key from Venue. This key enables the use of Medley on one workstation. The software cannot run without the key. You must have one key for each host on which you wish to run. Note that your current host access key *will* work if you move from one version of SunOS to another, or if you upgrade from an earlier version of Medley to Medley 2.0.

To obtain a key:

1. Get the host ID of the machine on which you intend to run Medley by typing on that machine

    ```
    prompt% hostid

    310002f6
    ```

2. Call Venue at 800-228-5325 between 9:00 a.m. and 4:30 p.m. PST. Outside the United States, call your local distributor.

3. Ask for a host access key, giving the Venue representative your host ID. Venue provides you with a host access key, which you need during software configuration, below.

4. If you plan to use the Medley startup script, you will be prompted for the key the first time you invoke it. The script will automatically save the key into a file for future reference.

CAUTION
Depending on your license agreement with Venue, your host access key may have an expiration date. After that date, your key is no longer valid.

Changing Configurations or Adding Options

If you forgot to install something or need to add a new emulator, you can rerun the installation, and select only the new things you need. The installation script does not remove things.

This need arises most often when you start running X Windows and need the new emulator.

First, decide what you need to install. Then type `install-medley`. When you get to the Installation Options Menu, select all the new things you need and *deselect* everything else. Continuing the installation from there just adds the new items.

If you have Sun-3s and you just got a SPARCstation, all you need from the new installation are the proper emulators. Everything else is the same.

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