APPENDIX A. SUN INSTALLATION PROCEDURE

This appendix describes how to install the LOOPS System files, Library Modules files, and Users' Modules files on the Sun Workstation.

Overview of the Distribution Kit

The distribution kit for LOOPS on the Sun consists of a single ¼-inch tape cartridge. It contains the complete release in "tar" format and creates appropriate directories when its contents are extracted.

Preparation

Preparing to install LOOPS requires that the Medley release of Lisp is already installed and that adequate file space is available.

Before installing LOOPS, remember that

- the Medley 1.0, 1.1 or 1.2 release of Lisp must already be installed on your Sun Workstation;

- the complete LOOPS distribution requires about 1.2 MBytes of file space.

Installation

The software installation procedure shows the steps required for installing the Medley LOOPS software on a Sun Workstation with Medley already installed. Examples are given where appropriate. Only those users who are system administrators and have **root** privileges can install the LOOPS, Medley release.

Before starting software installation, remember that the LOOPS software requires about 1.2 MBytes of file space.

1. Log in under your username.

   ```
   login yourname
   ```

   ```
   prompt%
   ```

   where **yourname** is replaced by your username.

2. Check for available space with the **df** command:

```
prompt% df

Filesystem   kbytes   used     avail    capacity  Mounted on

/dev/xy0a     7437    5470      1223       82%             /

/dev/xy0h   148455    4900    128709       96%      /usr/misc
```

3. Determine if you need to run **su** to make a directory for the distribution. If so, type in **su**:

```
prompt% su
```

4. Make a directory for the distribution. This directory should be named /usr/local/lde/loops. If you have enough space on the file system containing /usr/local/lde, then

```
prompt# mkdir /usr/local/lde/loops/
```

If you don't have enough space on /usr/local/lde, go to step 6.

5. Make yourself owner of this directory:

```
prompt# /etc/chown yourname /usr/local/lde/loops/
```

where **yourname** is your username.

6. If you don't have space on the file system which contains /usr/local/lde, but do have space somewhere else, for instance on /usr1, then make the directory there and link /usr/local/lde/loops to it:

```
prompt# mkdir /usr1/loops
```

```
prompt# /etc/chown yourname /usr/usr1/loops
```

```
prompt# ln -s /usr1/loops /usr/local/lde/loops
```

7. If you ran **su**, leave the privileged shell by typing:

```
prompt% exit
```

8. Insert the ¼-inch cartridge tape, containing the LOOPS software, in the drive.

9. Connect to /usr/local/lde/loops:

```
prompt# cd /usr/local/lde/loops
```

10. Load the Medley software from tape. Indicate the appropriate device abbreviation for your tape by replacing **xx** in the example below with

   ar for the Archive drive,

   st for a SCSI tape drive.

   This example shows the command entry sequence:

```
prompt# tar xvpf /dev/rxx0
```

   As the software is loaded (a process that takes some time) the system prints a series of lines in the following form:

```
x ./system/LOOPS., 28552 bytes, 56 tape blocks
```

The x at the beginning of the line indicates that the file is being extracted from the tape.

This creates directories named:

/usr/local/lde/loops/system/

/usr/local/lde/loops/library/

/usr/local/lde/loops/users/

This is a good time to set the protection of the extracted directories and files so that the work group using LOOPS has at least read access to them.
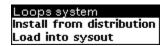
11. Boot Medley Lisp.

12. Open an Interlisp Executive Window.

13. Make certain the time is set correctly.

14. Set the **DIRECTORIES** and **DISPLAYFONTDIRECTORIES** variables appropriately so the sysout can find your Lyric/Medley library and font files.

15. Make the LOOPS System directory your connected directory:

    CONN {DSK}/usr/local/lde/loops/system/

16. Enter the following into your Exec:

    LOAD(LOOPS)

    A menu appears that looks like this:

    ```
    Loops system
    Install from distribution
    Load into sysout
    ```

17. Select the menu option **Install from distribution**.

    The following menu appears:

    ```
    Loops directories                              Click here when
    LOOPSDIRECTORY              {DSK}<LISPFILES>LOOPS>
    LOOPSLIBRARYDIRECTORY       {DSK}<LISPFILES>LOOPS>LIBI
    LOOPSUSERSDIRECTORY         {DSK}<LISPFILES>LOOPS>USEI
    LOOPSUSERSRULESDIRECTORY  {DSK}<LISPFILES>LOOPS>RULI
    ```

This menu shows the current (or default, if unset) values of the variables LOOPS examines when it loads things.

If you have installed LOOPS under /usr/local/lde/loops/ click the mouse on the menu items to set these directories to point where the tape was unloaded:

LOOPSDIRECTORY   {dsk}/usr/local/lde/loops/system/
LOOPSLIBRARYDIRECTORY   {dsk}/usr/local/lde/loops/library/
LOOPSUSERSDIRECTORY   {dsk}/usr/local/lde/loops/users/
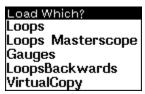**LOOPSUSERSRULESDIRECTORY**   {dsk}/usr/local/lde/loops/users/

As the last installation step, the installation tool automatically modifies the file LOOPSSITE, writes it out to the vaule of the variable **LOOPSDIRECTORY**, and compiles it.

When this step is finished, the first menu reappears:

```
Loops system
Install from distribution
Load into sysout
```

18. Select the menu option **Load into sysout** to load LOOPS into your system. The following menu appears:

```
Load Which?
Loops
Loops Masterscope
Gauges
LoopsBackwards
VirtualCopy
```

19. Select **LOOPS** from the menu to load LOOPS from the location where you installed it.

Once LOOPS is loaded the LOOPS System menu reappears. To load one of the other LOOPS library or Users' modules, select the appropriate name in the Load Which? menu.

20. Position your mouse cursor anywhere on the screen except for the Load Which? menu, then press the left mouse button to exit the installation procedure.

Medley LOOPS is now installed on your Sun Workstation.

Loading After Installation

This section describes how to reload LOOPS into a newly started Lisp sysout after LOOPS has been previously installed.

1. Start up Medley on your Sun Workstation.

2. Open an INTERLISP Exec window.

3. Make sure **DIRECTORIES** points to a directory containing GRAPHER.LCOM, and **DISPLAYFONTDIRECTORIES** points to a directory containing the Helvetica display font files from your Lisp distribution kit.

4. Connect to the directory containing the LOOPS system files:

    ```
    (CNDIR '{DSK}/USR/LOCAL/LDE/LOOPS/SYSTEM/)
    ```

5. Load LOOPS loader program:

    ```
    (FILESLOAD LOADLOOPS)
    ```

6. Run the LOOPS loader program:

    ```
    (LOADLOOPS)
    ```

This procedure loads only the LOOPS system files. Please see the manuals describing the LOOPS Library and Users' Modules for their loading procedures.

CAUTION

LOOPS uses the new compiler and its macrolet facilities. When LOOPS is loaded, it sets your ***DEFAULT-CLEANUP-COMPILER*** to **'CL:COMPILE-FILE**. More information on this cleanup flag and the new compiler is available in the *Lisp Release Notes*, in your Medley Lisp kit.

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