4. SYSTEM TOOLS

THE PROFILE TOOL, INSTALL LISP TOOL AND DIAGNOSTICS

When the Xerox 1108 is in the base state (a bouncing white square on a dark background,)
InstallLispTool, Profile Tool and Diagnostics can be invoked. Base state is entered by
boot.   If the bouncing white square does not appear, make sure you have correctly pre-l
software, as described in Installing Software on the Diagnostics Volume.

Each of these tools displays its own window, containing parameters and commands. These
selected with the left mouse button. Parameter menus are available in some cases, and t
selected by pressing either both mouse buttons on a two-button mouse, or using the middl
button on a three- button mouse.   Hereafter, the parameter selection will be referred t
middle mouse button.

The Delete and Next function keys may also be used in the Install Tool and Profile Tool

The Profile Tool

The Profile Tool enables the user to select a number of default parameters to be used wh
installing fresh Interlisp-D sysouts from a FileServer. The defaults will appear in the
Tool Window (see below), and may be changed there if necessary.

Summary:

* to activate the tool, click middle mouse button
* select the parameters you wish to set or change
* select Set Profile command
* confirm the mouse icon

Details:

The Profile window is divided into the following regions:

* a herald name, consisting of Profile Tool date and time of creation
* a two-line message sub-window, which is blank
* a parameter sub-window
* a command sub-window
* a file sub window for messages

The Profile Window contains these parameters:
User: Password:
Domain: Organization: FileServer: {IFS, NS}
NSLisp:
PUPLisp:

PARAMETER ITEMS

User: Your NS/Pup registered user name.
Password: Associated with registered name for login. You do not have to supply your pa
in the Profile; you may type it into the Install Tool window.
Domain: Name defined in your Clearinghouse database.
Organization: Name defined in your Clearinghouse database.

If you do not have an NS Fileserver, the Domain and Organization names may be names of y
choice.

File Server: Selects the type of File Server protocol (NS or IFS)
NSLisp: Complete pathway filename of the Lisp sysout file to be retrieved from an NS ty
FileServer.
PUPLisp: Complete pathway filename of the Lisp sysout file to be retrieved from a PUP t
FileServer.

The Install Lisp Tool

The tool window is divided into the following regions:

    * a herald name, consisting of Install Lisp Tool date and time of creation
    * a two-line message sub-window, which is blank when the Tool is first invoked
    * a parameter sub-window
    * a command sub-window
    * a file sub-window for messages relevant to the command selected

The Install Tool Window contains the following parameters:

```
Doc: {General, ErrorMsg}                    File Server: {IFS, NS}
File: [Server:Domain:Org]<Directory>SubDirectories>FileName.sysout
Volume:                                     VMem Size (Pages)
User:                                       Password:
Domain:                                     Organization:
```

And the following commands:

```
Install File$tartVolume!   Set VMem Size!    Floppy!  Help!
Erase Volume$cavenge VolumeRemote Boot!    Quit!
```

Certain parameters are relevant to certain commands. The Defaults from the Profile Tool
appear in the File Server, File, User, Password, Domain and Organization fields. For ex
check the default FileServer, and File name you want to install. Enter the Volume name f
installation if not the default. Enter your user name and password if these were not de
well as Domain and Organization. You are then ready to button Install File.

Using the middle mouse button on Doc, File Server, or Volume Menu changes the shape of t
arrow to horizontal, and pops up a menu of values which may be selected.

Using the middle mouse button on any of the parameters also changes the shape of the ar
horizontal, and reveals the Window Manager, which may be used to Move the Install Tool's
window.

PARAMETER ITEMS

Doc: Used in conjunction with the Help command. The General doc displays the write-up
InstallLispTool (the document you're reading now). The ErrorMsg doc displays the meanin
the error messages you may encounter when selecting a command, in the file sub-window.
file sub-window may be scrolled on the left hand side. You may want to use Zoom (parame
the Window Manger) to enlarge the window to full-screen size to display the entire Gener
ErrorMsg document.

File Server: Selects file server protocol types used with the Install File command.

File: Complete pathway name of the Lisp sysout file to be retrieved from the File Serve
example, an NS File might be: [Phylex:XSIS:Xerox]<LispCourse>LispClass.sysout
An equivalent but shorter NS File name is:
[Phylex:]<LispCourse>LispClass.sysout

An example of an IFS pathway would be: [Rose]<Lisp>Demo.sysout

The Server, Domain and Organization naming convention restricts these to AlphaNumerics p
the following special characters: " - : # SP (SPACE). The first character must be a let
the error message "scan error on Server:Domain:Organization" will be posted.

Volume Menu: The menu selections available with the two-button or center button pop-up are determined when your system is partitioned. The volume named Lisp is the default va this field. The Diagnostics Volume contains the Diagnostics Files loaded from the flopp the same name. The Boot Lisp Volume contains a fresh Lisp sysout, which can be selecte Remote Boot command, rather than reloading fresh Lisp from floppy disks.

VMem Size (Pages): Shows the Virtual Memory size for the Volume parameter. At the pres time, users cannot change this parameter; it is a development tool only.

User: NS/Pup registered user name.

Password: Associated with registered name for login.

Domain: Name defined in your Clearinghouse database.

Organization: Name defined in your Clearinghouse database.

If you do not have an NS Fileserver, the Domain and Organization names may be names of y choice.

COMMAND ITEMS

Install File: Installs the file named in the File parameter and fetches it from the Fil the 1108 partition named in the Volume parameter. A confirming mouse icon will appear i file sub-window with the name of the Volume to which the File will be installed from the Server. The file transfer can be aborted with the STOP key.

Start Volume: Boots the Lisp Volume parameter. There is a confirming mouse icon for th command.

Set VMem Size: Extends the Virtual Memory size of a Volume according to parameters. As mentioned earlier, this parameter cannot be changed by users yes; it is a development to

Floppy: (Not yet Implemented)

Erase Volume: Selected Volume parameter contents erased. There is a confirming mouse i for this command.

Scavenge Volume: Scavenges selected volume and produces MSScavenge.log file in that vol There is a confirming mouse icon for this command. The file sub-window message is:
Volume = Lispn
Scavenging...done
volume repaired, file log complete
N files on volume
No problems found.

Remote Boot: Cross-copies boot file from one volume (Source) to another (Destination). Source volume must be a fresh Lisp sysout to be boot-able. This command does not use th parameters. Its selection brings up the Remote Boot window, explained below.
Details:

The Remote Boot Option window is divided into the following regions:

* a herald name consisting of Remote Boot Option date and time of creation
* a two line message sub-window, which is blank when first invoked
* a parameter sub-window for Source and Destination volume names
* a command sub-window for Start or Quit
* a file sub-window for messages.

The parameters and commands appear:

Source Volume: Dest.Volume:
Start!
Quit!

PARAMETER ITEMS

Source Volume: Partition's Volume name (e.g. BootLisp, Lisp, Lisp2, Lisp3), from which t
fresh Lisp sysout will be copied.
Dest.Volume: Destination Volume name (e.g. Lisp, Lisp2, Lisp3) to which the sysout will
copied.

COMMAND ITEMS
Start: Does the obvious. File sub-window asks for confirmation of Source and Destinatio
the mouse icon. After copied, asks for confirmation to Boot Destination Volume.
Quit: Back to the bouncing white square.

Quit: Returns you to the bouncing white square.

The Online Diagnostics Tool

The programs for these tests were loaded from floppy disk to the Diagnostics partition o
in the Pre-Loading operation, and are accessible from the bouncing white square. These
for the Display, Keyboard, Echo Test (Ethernet), and Floppy Disk Drive (including Cleani
Maintenance section of this manual).

All of the tests are documented online through the Help command.

Summary:

* to activate, click the right mouse button
* select the Test to be Executed
* select the parameter(s) for the Test
* select command
* or select Help command to get the documentation on the Tests

The Diagnostics window consists of:

* the herald name Diagnostics
* a command and parameter sub-window
* a file sub-window for messages and documentation

Details:

To read all of the documentation, you may find it convenient to use the middle mouse but
invoke the Window Manager, activate Zoom with the horizontal arrow, and then move the to
line of the file sub-window upwards by using the left mouse button positioning the curso
box on the right hand side of this line.

COMMANDS

Help: Used with parameter "None", displays the complete documentation on how to use the
Diagnostics window, including the Window Manager. Used with one of the parameters, disp
the complete documentation for that Test.

Start and Cancel: Start the test selected or quit the Diagnostics program.

PARAMETERS

Type of test to be executed:
Display, Keyboard, Echo, Floppy Disk Drive. For details, please review the online
documentation before Starting these tests.