

LispCourse #1: Getting InterLisp-D Up and Running

Topic 0: Bravery

Topic 1: Getting InterLisp-D Up and Running

A. InterLisp-D is a comprehensive environment

B. Basic differences between Dolphins, Dorados, & Dandelions

Alto Exec versus Installation Utilities

File Systems ž Partitions (2 vs 5 vs 19) versus Logical Volumes

C. Background Concepts

Memory ž core versus disk versus file-server

Virtual Memory ž pageing(swapping)

Lisp system contained in a virtual image

Vmems and Sysouts

D. Basic Procedure & Concepts

Set up local disk

Vmem file

Frequency: Once

Retrieve necessary Lisp files

Support files: microcode, run files, etc.

Lisp.Sysout (full.sysout; *.sysout)

Frequency: New releases

Start up Lisp

Clean Lisp (create new virtual image from sysout)

Restarting Lisp (use old virtual image)

Frequency: As necessary

Leaving Lisp

"(LOGOUT)"

"(LOGOUT T)"

Frequency: As necessary

E. Procedures ž Prefatory Remarks

Why are the getting started procedures such a mess?

Square pegs in round holes, insufficient resources, etc.

Assumption: You know how to boot the machines.

F. Procedures ž Dolphins and Dorados (Alto-based)

Local disk configuration ž Files on a partition

Set up local disk ž NewUserDisk.cm

Needs to be a blank partition ž Use NewOs in NetExec to erase

Retrieve NewUserDisk.cm using FTP

(currently on {eris}<lisp>harmony>cm>newuserdisk.cis)

"@NewUserDisk"

Retrieve necessary Lisp files

Not necessary first time after NewUserDisk.cm

Thereafter for new releases use: UpdateLisp.cm

Retrieve UpdateLisp.cm using FTP

(currently on {eris}<lisp>harmony>cm>updatelisp.cis)

"@UpdateLisp"

Start up Lisp

Clean Lisp

"Lisp <sysout file name>"

Examples:

"Lisp {eris}<lisp>harmony>basics>full.sysout"

"Lisp {dsk2}lisp.sysout"

Restarting Lisp

"Lisp"

Error msg: "Inconsistent Vmem"

Leaving Lisp

"(LOGOUT)" or "(LOGOUT T)" leaves you in Alto Exec

"Quit" and power-off machine

G. Procedures ž Dandelions

Note: There are several different utilities for setting up and running Lisp on a Dandelion!!!! The one described here is the most commonly used at PARC.

Local disk configuration ž Logical volumes, Vmem = Logical Volume

Utilities: Othello and Hello

Set up local disk & Retrieve necessary Lisp files

3-Boot the DLion to load Othello from the net

"login"

Partition the disk into logical volumes & retrieve files

"@[eris]<lisp>harmony>cm>Partition43Lisp.othello"

<Note: Alternative partitionings are available on
[eris]<lisp>harmony>cm> for Star users or 10/29 Mbyte
disks.>

Start up Lisp

Clean Lisp

1-Boot the DLion to load Hello from the local disk

"login"

"@[eris]<lisp>harmony>cm>InstallLisp.hello"

(or InstallFull.hello)

When Lisp comes up, you will be asked for the name of the init
file. At PARC: "{eris}<lisp>harmony>basics>init.cis"
[Details on init files will come in later class.]

If this is the first startup after the disk has been partitioned, the
LispFiles volume must be initialized by typing:
"DFSCREATEDIRECTORY[LispFiles]"

Restarting Lisp

0-Boot the DLion (goes directly into Lisp)

Flashing 217 in MP indicates "Inconsistent VMem"

Leaving Lisp

"(LOGOUT)" or "(LOGOUT T)" returns you to Hello

Turn off machine or get new lisp.

Alternative: Keeping clean sysouts on spare logical volumes

To install the sysout on the logical volume:

1-Boot the DLion to load Hello from the local disk

"login"

"open eris"

"lisp"

"<logical volume name>", e.g., "Lisp2"

To start up Lisp using this sysout on another logical volume:

1-Boot the DLion to load Hello from the local disk

"Copy"

"<source logical volume>", e.g. "Lisp2"

"<destination logical volume>", e.g., "Lisp"

"Boot"

"<destination logical volume>", e.g., "Lisp"

H. Interacting with InterLisp-D ž the top level tty window

I. REFERENCES

{eris}<lisp>harmony>doc>GettingStarted.tedit (.press & .ip)

{eris}<lisp>harmony>doc>hello.tedit (.press)

Mesa Users Guide (Chapters 35, 2, & 3) [about Othello]

Xerox 1108 User's Guide [this contains an alternative procedure for using
Dandelions]

Mesa Users Guide (Chapters 35, 2, & 3) [about Othello]

Alto User's Handbook