6. KNOWN PROBLEMS

This chapter is a compilation of known problems in the Lyric/Medley Release of Xerox LOOPS. These problems are in the form of Action Requests (ARs) from the Xerox AR data base, followed by a brief description.

The ARs are divided into the following categories:

- Installation
- Instances
- Classes
- MetaClasses
- Active values
- Browsers
- Breaking and tracing
- File Manager
- Masterscope
- Extensions to ?=
- Windows
- System Variables and Functions
- Xerox LOOPS Library Packages
- Conversion to newer releases

6.1 Installation

AR	Description
10169	During the installation process, if fonts need to be loaded the LOOPS installer will try to write them to the directory on the front (CAR) of the list **DISPLAYFONTDIRECTORIES**. **Workaround:** Be sure that this is a directory you can write to, e.g. by pushing the name of a local directory onto the list like "{dsk}<lispfiles>fonts>." Grapher is loaded into the current sysout without being copied to a local directory; you may wish to do this and put that directory on your **DIRECTORIES** list.

6.2 Instances

AR	Description
9225	The implementation of multiple names for instances has NOT been changed in the Lyric/Medley release of LOOPS. However, some conditions which previously caused instances to appear twice on a file have been fixed.

6.3 Classes

AR	Description
8881	The Supers **MACRO** is not documented. It retrieves the supers of the given class. It accepts a class object as an argument and returns a list of class objects.
9134	Caution: **ListAttribute** (page 3-27) finds non-local **IVPROPS** on classes.
9881	To use the method **CVMissing**, it is necessary to define a class called **MyClass** which is a specialization of the class **Class**. Then the **CVMissing** method is specialized at this level (in **MyClass**). Finally, a class **Foo** is defined whose metaclass is **MyClass**. At this point the expression `(GetClassValue (_ ($ Foo) New) 'NewCV)` can be evaluated and a new class variable will be created.
9884	To create a class / instance variable without a value the variable should be set to the value of **NotSetValue**.

6.4 MetaClasses

AR	Description
10049	A new low level accessor function has been defined for programmers who wish to implement their own inheritance schemes. (**FetchMethodLocally** *classobj selector*) If *classobj* has a method for *selector* returns its name, otherwise NIL.

6.5 Active Values

AR	Description
9158	If an **IndirectVariable** points at an **ActiveValue** in a remote object then the remote active value's **Get** or **PutWrappedValue** method is

triggered with the **containingObj** argument holding the object containing the **IndirectVariable**.

6.6 Browsers

AR	Description

9244	The behavior of **LatticeBrowser** and **ClassBrowser** are different for **AddRoot**.
	
	Workaround: The example for **AddRoot** in section 10.5.3 should be changed to:
	
	The following creates an instance of **LatticeBrowser** and adds Tofu as a root:
	
	`54_ (_ ($ LatticeBrowser) New 'LB1)`
	`55_ (_ ($ LB1) AddRoot 'Tofu)`

9851	Section 10.3.2.7 "Extending Functionality with the Left Mouse Button:" should be modified as follows. On the 1186 the **COPY** key is similar to **SHIFT**, the **MOVE** and **CTRL** keys behave similarly, and **META** and **SAME** are similar as well.
9859	The specialization of **LatticeBrowser** methods into **ClassBrowser** methods is not enumerated. In section 10.5 "Programmer's Interface to Lattice Browsers," some methods are described which take different arguments when invoked on Class Browsers, e.g., **BoxNode** sent to a **ClassBrowser** does not allow the **unboxPrevious** flag.
10010	The documentation for **NewItem** in section 10.5.3 has the following additional information: Purpose: Gets an object, prompting the user if necessary. Behavior: ...to be added. **NewItem** accepts only names and maps them to objects using **$!**. If no name is entered at the prompt (by pressing return), **NewItem** returns **NIL**.
10367	When specializing a method from the class browser, if there are no methods to inherit, other than generic methods from **Object,** the menu lists methods already defined in the current class. Be careful about specializing methods defined directly under **Object**.

6.7 Breaking and Tracing

AR	Description
10356	**BT** will not show the send frames for broken methods. **Workaround:** You can do **BT!** and grab the method name from the ***APPLY*** frame. Inspect the **METHOD-FNS** definition of it.

6.8 File Manager

AR	Description
9159	Renaming a method does not smash the associated old symbol's function definition.
9166	Renaming a method does not remove the associated old method-fns definition from the file manager's change list.
10484	**CLASS** coms compiled by Lyric/Medley LOOPS are combined into a single large form that is read all at once. This causes occasional "Class x not defined, defining one now." messages to appear. Aside from the inconvenience of not seeing the names of classes during compilation, this should not cause problems.

6.9 MasterScope

AR	Description

9911	When LOOPS MasterScope analyzes forms like
	`(LET* ((A B)`
	`(C (F A)))`
	`--)`
	dwim asks about what it thinks is an unbound use of A. The analysis is correct, however.

6.10 Extensions to ?=

AR	Description
9828	**?=** documentation for the **ClassBrowser** methods is not available.

6.11 Windows

AR	Description
9243	**PutSavedValue** and **SavedValue** have **not** been removed from this release of Xerox LOOPS. We no longer plan to remove them.

10040	There are two new methods on the **Window** class:
	`(_ window Open?)`
	returns non-NIL if window is a LOOPS **Window** and is open.
	`(_ window Shade shade)`
	shades a LOOPS **Window** if it's open. The *shade* argument defaults to the value of **GRAYSHADE1**.

6.12 System Variables and Functions

AR	Description
9222	The variable **LispUserFilesForLoops** actually names Lisp Library modules.

6.13 Xerox LOOPS Library Modules

AR	Description
9797	After **VirtualCopyMixin** classes are "destroyed," instances of them can still be created without an error occurring.
9868	If a gauge is **Attach**'ed to one value, and then **Attach**'ed to another value the title of the gauge will not change even though the gauge will display the new value.
9871	Sending a **Shape** message to a **Meter** with the **ExtraSpaceFlag** set to T has no effect.

6.14 Conversion to Newer Releases

AR	Description
10404	There is currently no really convenient way of converting instance files from Buttress into Koto and Lyric/Medley. However, one can load **LOOPSBACKWARDS**, which modifies the **OLD-INTERLISP-FILE** readtable to handle the older style instances. Then one can read instances individually from the file and write them into a new file. In the new file they will be correctly formatted in the new manner.

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