



```

ELSE LOOPSDIRECTORY)))
(LOOPUSERSRULESDIRECTORY (LET [(POSSOURCES (OR (STRPOS "SOURCES>" LOOPSDIRECTORY NIL NIL T NIL
UPPERCASEARRAY T)
(STRPOS "SYSTEM>" LOOPSDIRECTORY NIL NIL T NIL
UPPERCASEARRAY T)
(IF POSSOURCES THEN (MKATOM (CONCAT (SUBSTRING LOOPSDIRECTORY 1
(SUB1 POSSOURCES))
"USERS>RULES>"))
ELSE LOOPSDIRECTORY]
(VARS (DIRECTORIES (UNION (LIST LOOPSDIRECTORY LOOPSLIBRARYDIRECTORY LOOPUSERSDIRECTORY
LOOPUSERSRULESDIRECTORY)
DIRECTORIES)))
(P (MOVD? 'NIL 'UpdateClassBrowsers])

```

;; Loops loadup stuff  
;; Bootstrap function until LOOPSBROWSE is loaded

(DEFINEQ

**(LOADLOOPS**

[LAMBDA (sysout-dir load-option)

; Edited 7-Jul-2022 19:44 by Imm  
; Edited 28-Jun-88 18:08 by JAMES.PA

```

(DECLARE (GLOBALVARS LoopsPatchFiles LOOPFILES LoadLoopsForms LOOPSDIRECTORY LoopsDate *FEATURES*))
(CNDR LOOPSDIRECTORY)
(RESETLST

```

;; stop the tty window from hanging up while loading files

```

[RESETSAVE (WINDOWPROP \TopLevelTtyWindow 'PAGEFULLFN (FUNCTION NIL))
(LIST (FUNCTION WINDOWPROP)
\TopLevelTtyWindow
'PAGEFULLFN
(WINDOWPROP \TopLevelTtyWindow 'PAGEFULLFN) ; Binding the variables LISPXHIST and LISPXHISTORY so
; history is not saved

```

```

[RESETVARS (LISPXHISTORY)
(PROG ((DIRECTORIES (CONS NIL (CONS (DIRECTORYNAME T T)
DIRECTORIES)))
LISPXHIST)

```

;; Load the files

```

(COND
(LoopsPatchFiles (for file in LoopsPatchFiles when (ATOM file)
do (PUTPROP (ROOTFILENAME file)
'FILEDATES NIL))
(DOFILESLOAD LoopsPatchFiles)))
(LoadLispUsers)
(DOFILESLOAD (CONS (MKLIST (OR load-option 'COMPILED))
LOOPFILES))

```

```

(COND
(EQ MAKESYSNAME 'MEDLEY) ; This load must be conditionalized here since the file will be
; compiled in Medley and not loadable in Lyric at all.
(FILESLD MEDLEY-PATCH.DFASL)))

```

;; Replace any boot-strapping stuff with the real thing

```

(MOVD 'FullInstallMethod 'InstallMethod)
(MOVD 'FullNameObject 'NameObject)
(FILEPKGTYPE 'FNS 'WHENCHANGED (NCONC1 (FILEPKGTYPE 'FNS 'WHENCHANGED)
'FnOrMethodChanged))

```

;; Remember info about the state of the system

```

(push *FEATURES* 'LOOPS :LOOPS)
(SETQ LoopsDate (DATE))

```

;; Now do any user specified initialization

```

(for form in LoadLoopsForms do (EVAL form])

```

```

(COND
(sysout-dir (SETQ FILELST NIL)
(SETQ LOGINHOST/DIR NIL)
(SETQ INITIALSLST)
(SETQ USERNAME NIL)
(SETQ FIRSTNAME 'SirOrMadam)
(CLEARW \TopLevelTtyWindow)
(UnMarkChanges)
(ENDLOADUP)
(COND
((NEQ T sysout-dir)
(/CNDR sysout-dir)))
(MAKESYS 'LOOPS.SYSOUT (PACK* 'LOOPS "/" MAKESYSNAME])

```

**(LoadLispUsers**

[LAMBDA NIL

(\* edited%: " 4-Apr-86 10:35")

(\* Load the usual Lispusers files for Loops)

```

(DOFILESLOAD (CONS '(SYSLOAD FROM VALUEOF LISPUSERSDIRECTORIES)
OptionalLispuserFiles))

```

(DOFILESLOAD (CONS '(SYSLOAD FROM VALUEOF LISPUSERSDIRECTORIES)
LispUserFilesForLoops])

(NOCACHEMACRO

[LAMBDA (FN BODY ENV)
(CL:FUNCALL FN BODY ENV)]

(UnMarkChanges

[LAMBDA (FILES) (\* sml "10-Dec-86 19:19")

(\* Unmark all changes that have been made and forget files to list and compile)

(SETQ NOTLISTEDFILES NIL)
(SETQ NOTCOMPILEDFILES NIL)
(UPDATEFILES)
[SETQ OLDCHANGES (for file in FILELST first (SETQ \$\$VAL (FILEPKGCHANGES)) when (OR (NULL FILES)
(FMEMB file FILES))
join (CDR (GETPROP file 'FILE]
[for COM in OLDCHANGES when (NEQ COMMENTFLG (CAR COM)) do (for ITEM in (CDR COM)
do (UNMARKASCHANGED ITEM (CAR COM)
OLDCHANGES])

)

(RPAQQ LispUserFilesForLoops (GRAPHER))

(RPAQQ LoopsPatchFiles NIL)

(RPAQQ \*DEFAULT-CLEANUP-COMPILER\* CL:COMPILE-FILE)

(RPAQQ LOOPSFILES (LOADLOOPS LOOPSSITE BLOCKLOOKUP LOOPSSPEEDUP LOOPSDATATYPES LOOPSTRUC LOOPSPRINT
LOOPS-FILEPKG LOOPSACCESS LOOPSUID LOOPSEDT LOOPSMETHODS LOOPSKERNEL
LOOPSACTIVEVALUES LOOPSUTILITY LOOPSINSPECT LOOPSWINDOW LOOPSBROWSE LOOPSDEBUG
LOOPSUSERINTERFACE LOOPS-TTYEDIT INSPECT-PATCH))

(RPAQQ \*REMOVE-INTERLISP-COMMENTS\* T)

:: Loopsms in library

:: Loops version decl's

(RPAQQ LoopsVersion Lyric/Medley)

:: Some utility functions and macros we like having around - these are actually used in Loops

(DEFINEQ

(PromptEval

[LAMBDA (promptString window sameLine?)

; Edited 17-Nov-87 10:26 by jrb:
(\* Printout promptString in promptwindow and return value of
expression read there)

(PROG [NEWVALUE (mainWindow (WINDOWPROP window 'MAINWINDOW]
(RESETLST
(RESETSAVE (TTYDISPLAYSTREAM (OR window PROMPTWINDOW)))
(RESETSAVE (TTY.PROCESS (THIS.PROCESS)))
(CLRPROMPT)
(RESETSAVE (PRINTLEVEL 4 3))
(printout T promptString T "The expression read will be EVALuated.")
(if sameLine?
then (printout T "> ")
else (printout T T "> "))

:: Make sure that buttoning the main window drags the TTY back here if window is an attachedwindow, and that closing it kills us

(if mainWindow
then (WINDOWPROP mainWindow 'PROCESS (WINDOWPROP window 'PROCESS))
(WINDOWADDPROP mainWindow 'CLOSEFN 'Don'tCloseIfBusy 'FIRST))

(CL:UNWIND-PROTECT
(SETQ NEWVALUE (LISPX (LISPXREAD T T)
'>))
(AND mainWindow (WINDOWPROP mainWindow 'PROCESS NIL)))

(\* clear tty buffer because it sometimes has stuff left.)

(CLEARBUF T T)
(RETURN NEWVALUE)]

(PromptRead

[LAMBDA (promptString window sameLine?)

; Edited 17-Nov-87 10:23 by jrb:
; Printout promptString in promptwindow and return value of
; expression read there

(PROG [NEWVALUE (mainWindow (WINDOWPROP window 'MAINWINDOW]
(RESETLST
(RESETSAVE (TTYDISPLAYSTREAM (OR window PROMPTWINDOW)))
(RESETSAVE (TTY.PROCESS (THIS.PROCESS)))
(CLRPROMPT)
(RESETSAVE (PRINTLEVEL 4 3))

```

(printout T promptString)
(if sameLine?
  then (printout T "> ")
  else (printout T T "> "))
(CLEARBUF T T) ; clear tty buffer because it sometimes has stuff left.
;; Make sure that buttoning the main window drags the TTY back here if window is an attachedwindow, and that it won't close until
;; done
(if mainWindow
  then (WINDOWPROP mainWindow 'PROCESS (WINDOWPROP window 'PROCESS))
        (WINDOWADDPROP mainWindow 'CLOSEFN 'Don'tCloseIfBusy 'FIRST))
(ALLOW.BUTTON.EVENTS)
(CL:UNWIND-PROTECT
 [SETQ NEWVALUE (CAR (ERSETQ (TTYINREAD T T)
 (AND mainWindow (WINDOWPROP mainWindow 'PROCESS NIL))))]
(RETURN NEWVALUE])

```

```

)
(DECLARE%: EVAL@COMPILE
(PUTPROPS MenuGetOrCreate MACRO [(name items)
(COND
  ((type? MENU (GETTOPVAL 'name))
   name)
  (T (SETTOPVAL 'name (create MENU
CHANGEOFFSETFLG _ T
ITEMS _ items])

```

;; NiceMenu is used all over the place. It really doesn't belong in this file. Ditto ColumnateMenuItems (JDS 11/8/91)

```

(DEFINEQ
(NiceMenu ; Edited 13-Jun-88 18:56 by TAL
[LAMBDA (items title)
(COND
  ((NULL items)
   (PROMPTPRINT "No items for " title)
   NIL)
  (T (LET [(columns (ADD1 (IQUOTIENT (FLENGTH items)
35])
(MENU (create MENU
CHANGEOFFSETFLG _ T
ITEMS _ (ColumnateMenuItems items columns)
TITLE _ title
MENUCOLUMNS _ columns])

```

```

(ColumnateMenuItems ; Edited 8-Feb-88 14:26 by mcf
[LAMBDA (items columns nullItem)

```

;; Organize items in order by columns instead of by rows

```

(LET ([nullItem (OR nullItem '(" NIL ""))
(len (LENGTH items))
rows)
(COND
  ((OR (NOT (NUMBERP columns))
        (ZEROP columns))
   (SETQ columns 1)))
(SETQ rows (IQUOTIENT len columns))
(COND
  ((NOT (ZEROP (IREMAINDER len columns)))
   (add rows 1)))
(for row to rows join (for x in (NTH items row) by (NTH x (ADD1 rows)) as col from 0 collect x
finally (COND
  ((NEQ col columns)
   (change $$VAL (NCONC1 DATUM nullItem))

```

;; Load the site specific file. Note that this assumes that the file is easily found, say on the same directory as this file. If no file is found, that is OK, it is assumed that there is no site file.

;; The ugly RESETLST stuff is to prevent the TTY window from hanging.

```

(RESETLST
[RESETSAVE (WINDOWPROP \TopLevelTtyWindow 'PAGEFULLFN (FUNCTION NIL))
(LIST (FUNCTION WINDOWPROP
\TopLevelTtyWindow
'PAGEFULLFN
(WINDOWPROP \TopLevelTtyWindow 'PAGEFULLFN)
(FILESLoad (NOERROR)
LoopsSite))

```

;; Some reasonable defaults, in case they weren't set by the site file

(RPAQ? **LoadLoopsForms** NIL)

(RPAQ? **OptionalLispuserFiles** NIL)

(RPAQ? **LOOPSDIRECTORY**

```
[LET [(thisFile (FULLNAME (GETSTREAM NIL 'INPUT)
(PACKFILENAME 'HOST (FILENAMEFIELD thisFile 'HOST)
'DEVICE
(FILENAMEFIELD thisFile 'DEVICE)
'DIRECTORY
(FILENAMEFIELD thisFile 'DIRECTORY))
```

(RPAQ? **LOOPSLIBRARYDIRECTORY**

```
(LET [(POSSOURCES (OR (STRPOS "SOURCES>" LOOPSDIRECTORY NIL NIL T NIL UPPERCASEARRAY T)
(STRPOS "SYSTEM>" LOOPSDIRECTORY NIL NIL T NIL UPPERCASEARRAY T)
(IF POSSOURCES THEN (MKATOM (CONCAT (SUBSTRING LOOPSDIRECTORY 1 (SUB1 POSSOURCES))
"LIBRARY>"))
ELSE LOOPSDIRECTORY)))
```

(RPAQ? **LOOPUSERSDIRECTORY**

```
(LET [(POSSOURCES (OR (STRPOS "SOURCES>" LOOPSDIRECTORY NIL NIL T NIL UPPERCASEARRAY T)
(STRPOS "SYSTEM>" LOOPSDIRECTORY NIL NIL T NIL UPPERCASEARRAY T)
(IF POSSOURCES THEN (MKATOM (CONCAT (SUBSTRING LOOPSDIRECTORY 1 (SUB1 POSSOURCES))
"USERS>"))
ELSE LOOPSDIRECTORY)))
```

(RPAQ? **LOOPUSERSRULESDIRECTORY**

```
(LET [(POSSOURCES (OR (STRPOS "SOURCES>" LOOPSDIRECTORY NIL NIL T NIL UPPERCASEARRAY T)
(STRPOS "SYSTEM>" LOOPSDIRECTORY NIL NIL T NIL UPPERCASEARRAY T)
(IF POSSOURCES THEN (MKATOM (CONCAT (SUBSTRING LOOPSDIRECTORY 1 (SUB1 POSSOURCES))
"USERS>RULES>"))
ELSE LOOPSDIRECTORY)))
```

(RPAQ **DIRECTORIES** (UNION (LIST LOOPSDIRECTORY LOOPSLIBRARYDIRECTORY LOOPUSERSDIRECTORY LOOPUSERSRULESDIRECTORY  
)  
DIRECTORIES))

(MOVD? 'NIL 'UpdateClassBrowsers)

(PUTPROPS **LOADLOOPS COPYRIGHT** ("Venue & Xerox Corporation" 1983 1984 1985 1986 1987 1988 1990 1991 1993 2022)  
)

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