

File created: 1-Aug-2022 09:28:41 {DSK}<home>larry>git-loops>system>LOADLOOPS.;11

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```
(RPAQQ LOADLOOPSCOMS
```

```
::: Loops loadup stuff
```

```
:: Bootstrap function until LOOPSBROWSE is loaded
```

```
(FNS LOADLOOPS LoadLispUsers NOCACHEMACRO UnMarkChanges)
(VARS (LispUserFilesForLoops ' (GRAPHER))
      (LoopsPatchFiles NIL)
      (*DEFAULT-CLEANUP-COMPILER* ' CL:COMPILE-FILE)
      (LOOPSFILES ' (LOADLOOPS LOOPSBSITE BLOCKLOOKUP LOOPSSPEEDUP LOOPSSTATYPES LOOPSSTRUC LOOEPSPRINT
                      LOOPS-FILEPKG LOOPSACCESS LOOPSUID LOOPEEDIT LOOPSMETHODS LOOPSKERNEL
                      LOOPSACTIVEVALUES LOOPSUTILITY LOOPSINSPECT LOOPSWINDOW LOOEPSBROWSE LOOPSDEBUG
                      LOOPSUSERINTERFACE LOOPS-TTYEDIT INSPECT-PATCH))
      (*REMOVE-INTERLISP-COMMENTS* T))
```

```
:: Loopsms in library
```

:: Loops version decl's

```
(VARS (LoopsVersion 'Lyric/Medley))
```

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

```
(FNS PromptEval PromptRead)
(MACROS MenuGetOrCreate)
```

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

```
(FNS NiceMenu ColumnateMenuItems)
```

```
;; 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.

```
(P (RESETLST
    [RESETSAVE (WINDOWPROP \TopLevelTtyWindow 'PAGEFULLFN (FUNCTION NILL))
      (LIST (FUNCTION WINDOWPROP
        \TopLevelTtyWindow
        'PAGEFULLFN
        (WINDOWPROP \TopLevelTtyWindow 'PAGEFULLFN)
      (FILESLOAD (NOERROR)
        LoopsSite)))
```

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

```
[INITVARS (LoadLoopsForms NIL)
          (OptionalLispuserFiles NIL)]
```

;; All these variables were set by the LOOPS.DFASL file with this as the fallback

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

```
;; If LOOPSDIRECTORY happens to end in "SOURCES>" or "SYSTEM>", construct the library, users, and rules directory
;; pathnames by replacing it with "LIBRARY>", "USERS>", and "USERS>RULES>" respectively. Otherwise punt and set them the
;; same as LOOPSDIRECTORY.
```

[illegible][illegible]

```

                                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 (MOVED? '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*))

(CNDIR 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.

(FILESLOAD MEDLEY-PATCH.DFASL)))

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

(MOVED 'FullInstallMethod 'InstallMethod)

(MOVED '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)

(/CNDIR 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)))
      (CLRSPROMPT)
      (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)))
      (CLRSPROMPT)
      (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
        MENCOLUMNS _ 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 UPPERARRAY T)
(STRPOS "SYSTEM>" LOOPSDIRECTORY NIL NIL T NIL UPPERARRAY 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 UPPERARRAY T)
(STRPOS "SYSTEM>" LOOPSDIRECTORY NIL NIL T NIL UPPERARRAY 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 UPPERARRAY T)
(STRPOS "SYSTEM>" LOOPSDIRECTORY NIL NIL T NIL UPPERARRAY T)
(IF POSSOURCES THEN (MKATOM (CONCAT (SUBSTRING LOOPSDIRECTORY 1 (SUB1 POSSOURCES))
"USERS>RULES>"))
ELSE LOOPSDIRECTORY)))

```

```

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

```

(MOVED? 'NILL 'UpdateClassBrowsers)

```

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

```

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