

File created: 20-Apr-88 18:04:32 {EG:PARC:XEROX}<LANNING>LISP>USERS>LOADMENUITEMS.;6

changes to: (FNS LoadUtilityPackage)

previous date: 3-Dec-87 11:38:28 {EG:PARC:XEROX}<LANNING>LISP>USERS>LOADMENUITEMS.;5

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

;;  
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(RPAQQ **LOADMENUITEMSCOMS**  
[

;;; Defines a new FILEPKGCOM called LOADMENUITEMS that can be used to add entries onto the background menu for easy loading of utility files

(FNS AddLoadMenuItem LoadUtilityPackage PickLoadUtilityItem LOADMENUITEMSCOMS)  
(FILEPKGCOMS LOADMENUITEMS)

;; Make the Filemanager happy

(DECLARE%: DONTCOPY (PROP MAKEFILE-ENVIRONMENT LOADMENUITEMS))  
(DECLARE%: DONTVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILEVAR (ADDVARS (NLAMA)  
(NLAML)  
(LAMA PickLoadUtilityItem))

;;; Defines a new FILEPKGCOM called LOADMENUITEMS that can be used to add entries onto the background menu for easy loading of utility files

(DEFINEQ

**(AddLoadMenuItem**

[LAMBDA (group fileDescr startUpForm)

; Edited 2-Dec-87 11:00 by sml

;;; Add a menu item to the background menu that will load the file(s) --- group is the submenu name for this file, default is Misc --- fileDescr is a list that  
;;; can be passed to DOFILESLOAD to load the file(s) --- startUpForm is an optional form that will be evaluated after the LOAD, default will print a nice  
;;; msg in the prompt window

(**DECLARE** (GLOBALVARS BackgroundMenu BackgroundMenuCommands))  
(LET\* [(group (OR group "Misc"))  
(fileDescr (MKLIST fileDescr))  
(fileName (for x in fileDescr thereis (NOT (LISTP x)  
(startUpFormProvided (NOT (NULL startUpForm)))  
[startUpForm (OR startUpForm `(PROMPTPRINT ',fileName " loaded"]  
[loadForm `(LISPXEVAL '(LoadUtilityPackage ',fileDescr ',startUpForm)  
"mouse event>\_"]  
(topLevelItem (OR (for item in BackgroundMenuCommands thereis (STRING-EQUAL (CAR item)  
"Load utility"))  
(LET [(topLevelItem (LIST "Load utility" NIL "Load a utility file"  
(LIST 'SUBITEMS])  
(/push BackgroundMenuCommands topLevelItem)  
topLevelItem))  
(groupItem (OR (for item in (CDAR (LAST topLevelItem)) thereis (STRING-EQUAL group (CAR item)))  
(LET [(groupList (LIST group NIL "Load a utility file" (LIST 'SUBITEMS])  
(/push (CDAR (LAST topLevelItem))  
groupList)  
(SORT (CDAR (LAST topLevelItem))  
(FUNCTION (LAMBDA (x y)  
(ALPHORDER (CAR x)  
(CAR y))  
groupList)))  
(newItem (LIST fileName loadForm (CONCAT "Load " fileName))  
(COND  
( (for item in (CAR (LAST groupItem)) thereis (EQUAL item newItem))  
; Don't bother to add the item if it's already there  
NIL)  
([AND (NOT startUpFormProvided)  
(for file in fileDescr when (NOT (LISTP file))  
always (NOT (NULL (GETPROP (ROOTFILENAME (U-CASE file)  
T)  
'FILEDATES])  
; If there is no start-up form and all the files are already loaded,  
; don't bother adding the item  
NIL)  
(T  
; Go ahead and add the item  
(/NCONC1 (CAR (LAST groupItem))  
newItem)  
(SORT (CDAR (LAST groupItem))  
(FUNCTION (LAMBDA (x y)  
(ALPHORDER (CAR x)  
(CAR y))  
groupList))  
(SETQ BackgroundMenu NIL)  
(UNDOSAVE `(SETQ ,BackgroundMenu NIL]))

**(LoadUtilityPackage**

[LAMBDA (fileDescr startUpForm)

; Edited 20-Apr-88 18:04 by sml

;;; Load the package. See the function AddLoadMenuItem.

```
(ALLOW.BUTTON.EVENTS)
(LET* ((myWindow (WFROMDS (TYDISPLAYSTREAM)))
      (windowOpen? (OPENWP myWindow)))
  (printout NIL T "Loading " (for x in fileDescr thereis (NOT (LISTP x)))
            T) ; Let the use know what is going on
            ; Do the load
  [DOFILESLOAD (for x in fileDescr collect (if (LISTP x)
                                             then x
                                             else (MKATOM (U-CASE x)
                                                           ; Now remove the load menu item, if you can find it
                                                           "Load utility"
                                                           (STRING-EQUAL (CAR item)
                                                           "Load utility"
                                                           (CDAR (LAST topLevelItem)) bind thisItem
                                                           eachtime [SETQ thisItem (for item in (CDAR (LAST groupItem))
                                                           thereis (EQ fileDescr (CADR (CADR (CADR (CADR (CADR (CADR item]
                                                           when thisItem do (DREMOVE thisItem (CAR (LAST groupItem)))
                                                           [if (NULL (CDAR (LAST groupItem)))
                                                           then (DREMOVE groupItem (CDAR (LAST topLevelItem]
                                                           (change BackgroundMenu NIL))] ; Close any TTY window that we may have opened
  (if (NOT windowOpen?)
      then (CLOSEW myWindow])
```

**(PickLoadUtilityItem**

[CL:LAMBDA (XCL-USER::UTILITY-NAME &OPTIONAL XCL-USER::GROUP-NAME XCL-USER::NO-ERRORS-P)

; Edited 3-Dec-87 11:29 by sml

;;; Many thanks to Andy Cameron for this function.

;;; Provides a way to programatically chose items from the LoadUtility Menu item

;;; Eg: (PickLoadUtilityItem "FileWatch")

```
(CL:LABELS ((XCL-USER::ITEM-LABEL (XCL-USER::MENU-ITEM)
  (CL:FIRST XCL-USER::MENU-ITEM))
  (XCL-USER::ITEM-BODY (XCL-USER::MENU-ITEM)
  (CL:SECOND XCL-USER::MENU-ITEM))
  (XCL-USER::ITEM-SUB-ITEMS (XCL-USER::MENU-ITEM)
  (CL:REST (CL:FOURTH XCL-USER::MENU-ITEM)))
  [XCL-USER::DO-ITEM (XCL-USER::MENU-ITEM)
  (CL:EVAL (CL:EVAL (XCL-USER::ITEM-BODY XCL-USER::MENU-ITEM)
  (XCL-USER::LOOKUP (XCL-USER::X XCL-USER::ALIST)
  (CL:ASSOC XCL-USER::X XCL-USER::ALIST :TEST #'STRING-EQUAL))
  (XCL-USER::MAKE-MENU (&KEY XCL-USER::ITEMS XCL-USER::TITLE)
  (create MENU
  TITLE _ XCL-USER::TITLE
  ITEMS _ XCL-USER::ITEMS
  CENTERFLG _ T)))
  ;;
  ;; Find all the matching utilities
  (LET [(XCL-USER::GROUP-ITEMS (CL:REMOVE-IF-NOT #'[CL:LAMBDA (XCL-USER::GROUP-ITEM)
  (AND (XCL-USER::LOOKUP
  XCL-USER::UTILITY-NAME
  (XCL-USER::ITEM-SUB-ITEMS
  XCL-USER::GROUP-ITEM))
  (OR (NULL XCL-USER::GROUP-NAME)
  (STRING-EQUAL
  XCL-USER::GROUP-NAME
  (XCL-USER::ITEM-LABEL
  XCL-USER::GROUP-ITEM]
  (XCL-USER::ITEM-SUB-ITEMS (XCL-USER::LOOKUP "Load utility"
  BackgroundMenuCommands]
  (COND
  ((= 1 (CL:LENGTH XCL-USER::GROUP-ITEMS))
  ;; Exactly one applicable item, so use it
  [XCL-USER::DO-ITEM (XCL-USER::LOOKUP XCL-USER::UTILITY-NAME (XCL-USER::ITEM-SUB-ITEMS
  (CL:FIRST
  XCL-USER::GROUP-ITEMS
  ]
  T)
  (XCL-USER::NO-ERRORS-P
  ;; Forget it.
  NIL)
  ((NULL XCL-USER::GROUP-ITEMS)
  ;; Not found anywhere.
  (CL:CERROR "Forget loading the utility." "~%Utility ~A not found under ~A on the
  LoadUtilty menu." XCL-USER::UTILITY-NAME (OR XCL-USER::GROUP-NAME "any group"))
  NIL)
```

(T ;; Found in more than one place.

```
(CL:CERROR "Pick one of them to load." "~%Utility ~A found under multiple groups on
the LoadUtility menu.~%~{ ~A~}" XCL-USER::UTILITY-NAME (CL:MAPCAR
#'
XCL-USER::ITEM-LABEL
XCL-USER::GROUP-ITEMS
))
(LET [(XCL-USER::GROUP-ITEM (MENU (XCL-USER::MAKE-MENU
:TITLE "Load utility from which group?" :ITEMS
(CL:MAPCAR #'(CL:LAMBDA (XCL-USER::GROUP-ITEM)
(LIST (XCL-USER::ITEM-LABEL
XCL-USER::GROUP-ITEM)
XCL-USER::GROUP-ITEM))
XCL-USER::GROUP-ITEMS]
(CL:WHEN XCL-USER::GROUP-ITEM
(XCL-USER::DO-ITEM (XCL-USER::LOOKUP XCL-USER::UTILITY-NAME (
XCL-USER::ITEM-SUB-ITEMS
XCL-USER::GROUP-ITEM
))))
T]))
```

**LOADMENUITEMSCOMS**

[LAMBDA (GROUP X)

(\* smL "16-Sep-86 18:37")

(\* Expand the LOADMENUITEMS filepackage command)

```
(LIST (CONS 'P (for packageDescr in X collect (if (LITATOM packageDescr)
then `(AddLoadMenuItem ',GROUP ',packageDescr)
elseif (EQLLENGTH packageDescr 1)
then `[AddLoadMenuItem ',GROUP ',(CAR packageDescr)
elseif (EQLLENGTH packageDescr 2)
then `[AddLoadMenuItem ',GROUP ',(CAR packageDescr)
',(CADR packageDescr)
else (ERROR "Utility description has too many arguments"
packageDescr))
)
```

)

```
[PUTDEF 'LOADMENUITEMS 'FILEPKGCOMS '((COM MACRO [(GROUP . X)
(COMS * (LOADMENUITEMSCOMS 'GROUP 'X)
CONTENTS NIL])
```

;; Make the Filemanager happy

(DECLARE%: DONTCOPY

(PUTPROPS **LOADMENUITEMS MAKEFILE-ENVIRONMENT** (:PACKAGE "IL" :READTABLE "INTERLISP" :BASE 10))

(DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVERS

(ADDTOVAR **NLAMA** )

(ADDTOVAR **NLAML** )

(ADDTOVAR **LAMA** PickLoadUtilityItem)

(PUTPROPS **LOADMENUITEMS COPYRIGHT** ("Xerox Corporation" 1986 1987 1988))

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