

File created: 6-Jul-88 11:51:18 {IVY}<HTHOMPSON>LISP>UTIL>CD.;8

changes to: (VARS CDCOMS)
(FNS CDFun)

previous date: 14-Dec-87 15:41:38 {ERINYES}<LISP>LYRIC>LISPUSERS>CD.;2

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

```
::  
:: Copyright (c) 1984, 1985, 1986, 1987, 1988 by  
:: Henry Thompson, Dept. of Artificial Intelligence, Univ. of Edinburgh. All rights reserved.
```

(RPAQQ **CDCOMS**

```
((FNS CDFun CDSepr CDName ChangeDir ReshowConn ShowCDMenu COPYBUTTONDOWN?)  
 (INITVARS [LocalDiskVolume (COND ((FMEMB (MACHINETYPE)  
                                     ' (DANDELION DOVE))  
                                     (FILENAMEFIELD (DIRECTORYNAME '{DSK})  
                                     ' DIRECTORY])  
 (CD.DEFAULT.HOST ' DSK)  
 (CD.DEFAULT.PREFIX LocalDiskVolume)  
 [CD.DEFAULT.USER (LET [(pos (STRPOS "." (USERNAME)  
                             (COND [pos (PACK* (SUBSTRING (USERNAME)  
                                     1  
                                     (DIFFERENCE pos 1])  
                             (T (USERNAME])  
 (CD.DEFAULT.LEFT)  
 (CD.DEFAULT.BOTTOM)  
 (CDMenuItems)  
 (LOGINHOST/DIR (CDName))  
 (CONNWINDOW)  
 (CDMenu)  
 (CDCommandMenu)  
 (ADDVARS (LISPXCOMS CD)  
 [AFTERSYSOUTFORMS (SETQ CD.DEFAULT.PREFIX (SETQ LocalDiskVolume (COND  
                                     ((FMEMB (MACHINETYPE)  
                                     ' (DANDELION DOVE))  
                                     (FILENAMEFIELD  
                                     (DIRECTORYNAME '{DSK})  
                                     ' DIRECTORY])  
 (POSTGREETFORMS [SETQ CD.DEFAULT.USER (LET [(pos (STRPOS "." (USERNAME)  
                             (COND [pos (PACK* (SUBSTRING (USERNAME)  
                                     1  
                                     (DIFFERENCE pos 1])  
                             (T (USERNAME])  
 [SETQ CD.DEFAULT.PREFIX (SETQ LocalDiskVolume (COND ((FMEMB (MACHINETYPE)  
                                     ' (DANDELION DOVE))  
                                     (FILENAMEFIELD (DIRECTORYNAME  
                                     '{DSK})  
                                     ' DIRECTORY])  
 (SETQ LOGINHOST/DIR (CDName))]  
 (CD.OS.SEPRS (DSK . >)  
 (UNIX . /)  
 (VMS . /)  
 (NS . >)  
 (IFS . >))  
 (CDCommandMenuItems (Connect (CDFun $dir$)  
                             "Connect to the directory")  
 (Browse (APPLY* (FUNCTION FB)  
                 $dir$)  
          "Bring up a file browser on the directory")  
 (Delete (PROGN (SETQ CDMenu NIL)  
               (SETQ CDMenuItems (DREMOVE $dir$ CDMenuItems)))  
          "Remove the directory from the CD menu")))  
 (ADVISE CNDIR DIRECTORYNAME)  
 (LISPXMACHROS CD)  
 (COMMANDS "CD")  
 [P ([LAMBDA (new)  
     (COND ((FMEMB new CDMenuItems)  
           CDMenuItems)  
           (T (SETQ CDMenuItems (CONS new CDMenuItems]  
 (PACK* (DIRECTORYNAME '{DSK})]  
 (PROP MAKEFILE-ENVIRONMENT CD)  
 (DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY  
 (GLOBALVARS CD.DEFAULT.HOST CD.DEFAULT.PREFIX CD.OS.SEPRS LocalDiskVolume CD.DEFAULT.USER  
 CD.DEFAULT.LEFT CD.DEFAULT.BOTTOM CONNWINDOW CDMenu CDMenuItems CDCommandMenuItems  
 CDCommandMenu))])
```

(DEFINEQ

(CDFun

[LAMBDA (d)

; Edited 6-Jul-88 11:49 by ht:

```

(if d
  then [LET* ((target (DIRECTORYNAME T))
             (host (FILENAMEFIELD target 'HOST))
             (dir (FILENAMEFIELD target 'DIRECTORY))
             (sep (CDSepr host))
             (SELECTQ (NTHCHAR d 1)
                    ({ (ChangeDir d)
                      (< [if (AND (EQ (NCHARS d)
                                     2)
                               (EQ (NTHCHAR d 1)
                                   '<))
                        then ;; this hack here for common lisp readtables which reject ..
                          [bind (prev _ 0)
                               this while (SETQ this (STRPOS sep dir (PLUS prev 1)))
                               do (SETQ prev this)
                               finally (ChangeDir (PACKFILENAME 'HOST host 'DIRECTORY
                                                                (SUBSTRING dir 1 (IMAX (IDIFFERENCE prev 1)
                                                                0)
                                                                dir]
                          else (ChangeDir (CDName (SUBSTRING d 2)
                                                  (FILENAMEFIELD (DIRECTORYNAME T)
                                                                'HOST]))
                          (bind dp first (SETQ dp (MKSTRING d)) while (IGREATERP (NCHARS dp)
                                                                0)
                          do (if (EQ (NTHCHAR dp 1)
                                      '%.')
                              then (GNC dp)
                                   [if (EQ (NTHCHAR dp 1)
                                           '%.')
                                       then (GNC dp)
                                           (bind (prev _ 0)
                                                this while (SETQ this (STRPOS sep dir (PLUS prev 1)))
                                                do (SETQ prev this)
                                                finally (SETQ dir (SUBSTRING dir 1 (IMAX (IDIFFERENCE prev 1)
                                                                0)
                                                                dir]
                                       else (SETQ dir (PACK* dir sep dp))
                                           (GO $$OUT))
                              (if (OR (EQ (NTHCHAR dp 1)
                                          sep)
                                      (EQ (NTHCHAR dp 1)
                                          '>))
                                  then (GNC dp))
                              finally (RETURN (ChangeDir (PACKFILENAME 'HOST host 'DIRECTORY dir]
                          else (ChangeDir (CDName)]))

(CDSepr
  [LAMBDA (host)
    (OR (CDR (ASSOC host CD.OS.SEPRS))
        (CDR (ASSOC (GETOSTYPE host)
                    CD.OS.SEPRS))
        '>])
    (* ht%: "19-Mar-86 09:34")

(CDName
  [LAMBDA (dir host)
    (if (NOT host)
        then (SETQ host CD.DEFAULT.HOST))
    (if [AND (NOT dir)
            (FMEMB (MACHINETYPE)
                  '(DANDELION DOVE)
                  then (SETQ dir CD.DEFAULT.USER))
        (PACKFILENAME 'HOST host 'DIRECTORY (if [AND CD.DEFAULT.PREFIX (NOT (AND (FMEMB (MACHINETYPE)
                                                                                   '(DANDELION DOVE))
                                                                                   (EQ CD.DEFAULT.PREFIX
                                                                                   LocalDiskVolume)
                                                                                   (NEQ host 'DSK]
            then (PACK* CD.DEFAULT.PREFIX (CDSepr host)
                        dir)
            else dir]))
    (* drc%: " 1-Jun-86 16:17")

(ChangeDir
  [LAMBDA (dir)
    (CONS (DIRECTORYNAME T)
          (/CNDIR dir])
    (* ht%: " 8-SEP-82 20:05")

(ReshowConn
  [LAMBDA NIL
    (PROG ((DN (DIRECTORYNAME T))
           (TTYREG (WINDOWPROP \TopLevelTTYWindow 'REGION))
           REG FONT)
      (if (NOT (WINDOWP CONNWINDOW))
          then (SETQ CONNWINDOW
    (* ht%: "30-Apr-85 17:33")

```

```

(CREATEW (SETQ REG (create REGION
                        LEFT _ 0
                        BOTTOM _ 0
                        WIDTH _ 10
                        HEIGHT _ 10))
          NIL NIL T))
(WINDOWPROP CONNWINDOW 'BUTTONEVENTFN (FUNCTION ShowCDMenu))
(if (SETQ FONT (FONTCREATE 'HELVETICA 8 NIL NIL 'DISPLAY T))
    then (DSPFONT FONT CONNWINDOW))
(replace HEIGHT of REG with (HEIGHTIFWINDOW (- (DSPLINEFEED NIL CONNWINDOW))
                                             NIL NIL))
(SHAPEW CONNWINDOW REG))
(if (ACTIVEWP CONNWINDOW)
    then (CLOSEW CONNWINDOW))
[SETQ REG (APPEND (WINDOWPROP CONNWINDOW 'REGION)
  (replace LEFT of REG with (OR CD.DEFAULT.LEFT (fetch LEFT of TTYREG)))
  (replace BOTTOM of REG with (OR CD.DEFAULT.BOTTOM (fetch TOP of TTYREG)))
  (replace WIDTH of REG with (WIDTHIFWINDOW (STRINGWIDTH DN CONNWINDOW)
                                             NIL)))
(SHAPEW CONNWINDOW REG)
(DSPRESET CONNWINDOW)
(OPENW CONNWINDOW)
(PRIN3 DN CONNWINDOW])

```

(ShowCDMenu

(* ht%: "3-Apr-86 12:07")

```

[LAMBDA (cw)
  (LET [(copyFlg (COPYBUTTONDOWN?))
        (mv (MENU (OR CDMenu (create MENU
                                     ITEMS _ CDMenuItems
                                     MENUFONT _ (FONTCREATE 'HELVETICA 8 NIL NIL 'DISPLAY T)
                                     WHENSELECTEDFN _ (FUNCTION (LAMBDA (item menu key vals)
                                                                    (CONS key item))
                                                                    (CONS key item))
                                     (CONS key item))
                )
        (if mv
            then (if copyFlg
                    then [if (COPYBUTTONDOWN?)
                            then (if (NLSETQ (while (COPYBUTTONDOWN?) do (BLOCK)))
                                    then (BKSYSBUF (CDR mv))
                                    else (SELECTQ (CAR mv)
                                                  (LEFT (CDFun (CDR mv)))
                                                  ((MIDDLE RIGHT)
                                                   (PROMPTPRINT "Choose action for directory " (CDR mv))
                                                   [LET (($dir$ (CDR mv))
                                                       (DECLARE (SPECVARS $dir$))
                                                       (MENU (OR CDCommandMenu (create MENU
                                                                 ITEMS _ CDCommandMenuItems))
                                                       (SHOULDNT])

```

(COPYBUTTONDOWN?

(* ht%: "19-Mar-86 09:37")

```

[LAMBDA NIL
  (SHIFTDOWNP 'SHIFT)]
)
(RPAQ? LocalDiskVolume [COND ((FMEMB (MACHINETYPE)
                                     ' (DANDELION DOVE))
  (FILENAMEFIELD (DIRECTORYNAME '{DSK})
                 'DIRECTORY])
(RPAQ? CD.DEFAULT.HOST 'DSK)
(RPAQ? CD.DEFAULT.PREFIX LocalDiskVolume)
(RPAQ? CD.DEFAULT.USER [LET [(pos (STRPOS "." (USERNAME))
  (COND [pos (PACK* (SUBSTRING (USERNAME)
                              1
                              (DIFFERENCE pos 1)
                              (T (USERNAME))
(RPAQ? CD.DEFAULT.LEFT )
(RPAQ? CD.DEFAULT.BOTTOM )
(RPAQ? CDMenuItems )
(RPAQ? LOGINHOST/DIR (CDName))
(RPAQ? CONNWINDOW )
(RPAQ? CDMenu )
(RPAQ? CDCommandMenu )
(ADDTOTVAR LISPXCOMS CD)
(ADDTOTVAR AFTERSYSOUTFORMS [SETQ CD.DEFAULT.PREFIX (SETQ LocalDiskVolume (COND ((FMEMB (MACHINETYPE)

```

```
' (DANDELION DOVE))
(FILENAMEFIELD
 (DIRECTORYNAME '{DSK})
 'DIRECTORY])
```

(ADDTOVAR **POSTGREETFORMS**

```
[SETQ CD.DEFAULT.USER (LET [(pos (STRPOS "." (USERNAME)
 (COND [pos (PACK* (SUBSTRING (USERNAME)
1
(DIFFERENCE pos 1]
(T (USERNAME)
[SETQ CD.DEFAULT.PREFIX (SETQ LocalDiskVolume (COND ((FMEMB (MACHINETYPE)
' (DANDELION DOVE))
(FILENAMEFIELD (DIRECTORYNAME '{DSK})
'DIRECTORY]
(SETQ LOGINHOST/DIR (CDName)))
```

(ADDTOVAR **CD.OS.SEPRS** (DSK . >)
(UNIX . /)
(VMS . /)
(NS . >)
(IFS . >))

(ADDTOVAR **CDCommandMenuItems**

```
(Connect (CDFun $dir$)
"Connect to the directory")
(Browse (APPLY* (FUNCTION FB)
$dir$)
"Bring up a file browser on the directory")
(Delete (PROGN (SETQ CDMenu NIL)
(SETQ CDMenuItems (DREMOVE $dir$ CDMenuItems)))
"Remove the directory from the CD menu"))
```

```
[XCL:REINSTALL-ADVICE 'CNDIR :AROUND
' (:LAST (PROG ((val (NLSETQ *)))
(ReshowConn)
(RETURN (if val
then (if (NOT (FMEMB (CAR val)
CDMenuItems))
then (push CDMenuItems (CAR val))
(SETQ CDMenu NIL))
(CAR val)
else (ERROR!])
```

```
[XCL:REINSTALL-ADVICE 'DIRECTORYNAME :AFTER ' (:LAST (COND
([AND (EQ 'DSK (FILENAMEFIELD !VALUE 'HOST))
(NOT (FMEMB (NTHCHAR !VALUE -1)
' (> ]])
(SETQ !VALUE (PACK* !VALUE ">")
```

(READWISE CNDIR DIRECTORYNAME)

(ADDTOVAR **LISPMACROS** (CD (CDFun (CAR LISPXLIN)))

(ADDTOVAR **LISPCOMS** CD)

```
(DEFCOMMAND ("CD" :EVAL) (&OPTIONAL XCL-USER::DIR-SPEC)
"un*x style directory changing, e.g. cd foo (use << for ..)"
(LET ((XCL-USER::DS XCL-USER::DIR-SPEC)
(CDFun (CL:IF (EQ XCL-USER::DS 'XCL-USER::<<)
'XCL-USER::|..|
XCL-USER::DS))))
```

```
[[LAMBDA (new)
(COND
((FMEMB new CDMenuItems)
CDMenuItems)
(T (SETQ CDMenuItems (CONS new CDMenuItems)
(PACK* (DIRECTORYNAME '{DSK}])
```

(PUTPROPS **CD MAKEFILE-ENVIRONMENT** (:READTABLE "INTERLISP" :PACKAGE "INTERLISP"))

(DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY

(DECLARE%: DOEVAL@COMPILE DONTCOPY

```
(GLOBALVARS CD.DEFAULT.HOST CD.DEFAULT.PREFIX CD.OS.SEPRS LocalDiskVolume CD.DEFAULT.USER CD.DEFAULT.LEFT
CD.DEFAULT.BOTTOM CONNWINDOW CDMenu CDMenuItems CDCommandMenuItems CDCommandMenu)
)
```

(PUTPROPS **CD COPYRIGHT** ("Henry Thompson, Dept. of Artificial Intelligence, Univ. of Edinburgh" 1984 1985 1986
1987 1988))

FUNCTION INDEX

CDFun1 CDSepr2 COPYBUTTONDOWN?3 ShowCDMenu3
CDName2 ChangeDir2 ReshowConn2

VARIABLE INDEX

AFTERSYSOUTFORMS ..3 CD.DEFAULT.PREFIX .3 CDCommandMenuItems 4 LISPXCOMS3,4 POSTGREETFORMS4
CD.DEFAULT.BOTTOM .3 CD.DEFAULT.USER ...3 CDMenu3 LISPXMACROS4
CD.DEFAULT.HOST ...3 CD.OS.SEPERS4 CDMenuItems3 LocalDiskVolume ...3
CD.DEFAULT.LEFT ...3 CDCommandMenu3 CONNWINDOW3 LOGINHOST/DIR3

ADVICE INDEX

CNDIR4 DIRECTORYNAME4

PROPERTY INDEX

CD4

COMMAND INDEX

"CD"4
