

File created: 16-May-90 15:24:15 {DSK}<usr>local>lde>lispcore>sources>DEBUGEDIT.;2

changes to: (VARS DEBUGEDITCOMS)

previous date: 12-Jan-88 18:16:06 {DSK}<usr>local>lde>lispcore>sources>DEBUGEDIT.;1

Read Table: XCL

Package: INTERLISP

Format: XCCS

; Copyright (c) 1986, 1988, 1990 by Venue & Xerox Corporation. All rights reserved.

```
(RPAQQ DEBUGEDITCOMS ((COMMANDS "EDIT")
  (FUNCTIONS EDIT-IN-FNS EDIT-IN-FUNCTION FIND-EDIT-LOCATION FIND-EDIT-LOCATION-TAIL)
  (PROP FILETYPE DEBUGEDIT)))
```

```
(DEFCOMMAND ("EDIT" :DEBUGGER) NIL "Edit call to function at LASTPOS"
  (DECLARE (CL:SPECIAL BRKVALUES))
  (RESETLST
    (LET ((POS (STKNTH 0 LASTPOS))
          SEEN NAME DEF)
      (RESETSAVE NIL (LIST 'RELSTK POS))
      (WHILE POS FINALLY (RETURN "Can't")
        DO (SETQ NAME (STKNAME POS))
          (COND
            ((NOT (CL:SYMBOLP NAME)) ; non-symbol names are not editable?
              )
            ((FMEMB NAME ' (EVAL CL:EVAL))
              (CL:PUSH (STKARG 1 POS)
                SEEN) ; remember EVALs as lists
              )
            )
          )
      (T (COND
        ((AND (EXPRP NAME)
              (OR (AND (SETQ DEF (GETDEF NAME 'FUNCTIONS NIL ' (EDIT NOERROR NOCOPY)))
                    (EDIT-IN-FUNCTION NAME DEF SEEN))
                    (EDIT-IN-FNS NAME (GETD NAME)
                      SEEN)))
          (CL:SETF BRKVALUES (LIST ':REVERT (STKARGS POS)
            (STKNTH 0 POS)
            NAME))
          (RETURN NAME))
        (T (CL:PUSH NAME SEEN))))))
    (SETQ POS (STKNTH -1 POS POS))))
```

```
(CL:DEFUN EDIT-IN-FNS (NAME DEF SEEN)
  ;; NOT YET
  (LET ((LOC (FIND-EDIT-LOCATION DEF SEEN)))
    (EDITDEF NAME 'FNS (CONS '= DEF)
      (AND LOC `((ORR ((F= ,LOC))
        TTY\:)))
    (OR NAME T)))
```

```
(CL:DEFUN EDIT-IN-FUNCTION (NAME DEF SEEN)
  (LET ((LOC (FIND-EDIT-LOCATION DEF SEEN)))
    (EDITDEF NAME 'FUNCTIONS (CONS '= DEF)
      (AND LOC `((ORR ((F= ,LOC))
        TTY\:)))
    (OR NAME T)))
```

```
(CL:DEFUN FIND-EDIT-LOCATION (DEFINITION SEEN)
  "return edit location in DEFINITION of lowest caller in SEEN found"
  (LET ((*REMOVE-INTERLISP-COMMENTS* (EQ *REMOVE-INTERLISP-COMMENTS* T))
    ; if :WARN set to NIL
    (EXPRS (REVERSE SEEN))
    FOUND)
    (WHILE EXPRS DO (COND
      ((NLISTP (CAR EXPRS))
        (POP EXPRS))
      ((SETQ FOUND (AND (LISTP (CAR EXPRS))
        (FIND-EDIT-LOCATION-TAIL DEFINITION (CAR EXPRS)
          NIL)))
        (AND (NULL (CDR FOUND))
          (RETURN (CAR FOUND))))))
```

```
(CL:DEFUN FIND-EDIT-LOCATION-TAIL (X EXPRESSION OTHERS)
  (COND
    ((NLISTP X)
      OTHERS)
```

```
( (EQ (CAAR X)
      '*)
  ;; ignore comments
  (FIND-EDIT-LOCATION-TAIL (CDR X)
    EXPRESSION OTHERS))
( (EQUAL EXPRESSION (REMOVE-COMMENTS X))
  (CONS X OTHERS))
(T (FIND-EDIT-LOCATION-TAIL (CDR X)
  EXPRESSION
  (FIND-EDIT-LOCATION-TAIL (CAR X)
    EXPRESSION OTHERS))))

(PUTPROPS DEBUGEDIT FILETYPE CL:COMPILE-FILE)

(PUTPROPS DEBUGEDIT COPYRIGHT ("Venue & Xerox Corporation" 1986 1988 1990))
```

FUNCTION INDEX

EDIT-IN-FNS1 EDIT-IN-FUNCTION1 FIND-EDIT-LOCATION1 FIND-EDIT-LOCATION-TAIL .1

PROPERTY INDEX

DEBUGEDIT2

COMMAND INDEX

"EDIT"1
