

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

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```
(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)
      (RETSAVE 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?
              )
            ((MEMB 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
