

File created: 13-Mar-92 14:41:54 {DSK}<usr>local>lde>lispcore>sources>AERROR.;2

changes to: (VARS AERRORCOMS)

previous date: 16-May-90 11:58:35 {DSK}<usr>local>lde>lispcore>sources>AERROR.;1

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

::
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(RPAQQ **AERRORCOMS**

```
((FNS ERRORSTRING SETERRORN LISPERROR \LISPERROR \ILLEGAL.ARG \ARG.NOT.LITATOM)
 (EXPORT (DECLARE%: EVAL@COMPILE (VARS \ERRORMESSAGELIST)
      DONTCOPY
      (OPTIMIZERS LISPERROR)))
 (VARIABLES *LAST-CONDITION*)
 (GLOBALVARS \ERRORMESSAGELIST)
 (FUNCTIONS ERRM-TO-CONDITION)
 (PROP FILETYPE AERROR)
 (LOCALVARS . T)))
```

(DEFINEQ

(**ERRORSTRING**

```
[LAMBDA (X)
  (CAR (NTH \ERRORMESSAGELIST (ADD1 (OR (NUMBERP X)
                                          17]))))
(* Imm "21-APR-80 15:46")
```

(**SETERRORN**

```
[LAMBDA (NUM MESS)
  (CL:SETQ *LAST-CONDITION* (ERRM-TO-CONDITION NUM MESS))]
(* amd "30-Jul-86 17:00")
```

(**LISPERROR**

```
[LAMBDA (N X CONTINUEOKFLG)
  ;; compiles open as call to \LISPERROR
  [COND
    ((STRINGP N)
     ;; Case where LISPERROR is called with one of the "canonical error message" strings from the old IL implementation. Need to translate it to
     ;; a number. THIS CODE IS STOLEN IN SPIRIT FROM THE OPTIMIZER.
     (FOR MSG IN \ERRORMESSAGELIST AS I FROM 0 WHEN (CL:EQUAL MSG N) DO (SETQ N I)
      (\LISPERROR X N CONTINUEOKFLG]))
; Edited 1-Feb-89 09:38 by jds
```

(**\LISPERROR**

```
[LAMBDA (X N CONTINUEOKFLG)
  (DECLARE (USEDFREE \INTERRUPTABLE))
  (PROG NIL
    (SELECTQ N
      ((5 22)
       ;; (\STOP.DRIBBLE? X)
       )
      NIL)
    (OR \INTERRUPTABLE (\MP.ERROR \MP.UNINTERRUPTABLE "Error in uninterruptable system code -- ^N to
      continue into error handler" X))
    RET (RETURN (PROG1 (COND
      ((SMALLP N)
       (ERRORX (LIST N X)))
      (T (ERROR N X)))
      (OR CONTINUEOKFLG (GO RET))))))
; File errors that can happen to files open for output
```

(**\ILLEGAL.ARG**

```
[LAMBDA (X)
  (\LISPERROR "ILLEGAL ARG" X))
(* Imm "25-APR-80 18:02")
```

(**\ARG.NOT.LITATOM**

```
[LAMBDA (X)
  (\LISPERROR "ARG NOT LITATOM" X))
(* Imm "25-APR-80 18:02")
```

)

:: FOLLOWING DEFINITIONS EXPORTED

(DECLARE%: EVAL@COMPILE

```

(RPAQQ \ERRORMESSAGELIST
  ("SYSTEM ERROR" " " "STACK OVERFLOW" "ILLEGAL RETURN" "ARG NOT LIST" "HARD DISK ERROR" "ATTEMPT TO SET
    NIL OR T" "ATTEMPT TO RPLAC NIL" "UNDEFINED OR ILLEGAL GO" "FILE WON'T OPEN" "NON-NUMERIC ARG"
    "ATOM TOO LONG" "ATOM HASH TABLE FULL" "FILE NOT OPEN" "ARG NOT LITATOM" "! too many files open"
    "END OF FILE" "ERROR" "BREAK" "ILLEGAL STACK ARG" "FAULT IN EVAL" "ARRAYS FULL" "FILE SYSTEM
    RESOURCES EXCEEDED" "FILE NOT FOUND" "BAD SYSOUT FILE" "UNUSUAL CDR ARG LIST" "HASH TABLE FULL"
    "ILLEGAL ARG" "ARG NOT ARRAY" "ILLEGAL OR IMPOSSIBLE BLOCK" "STACK PTR HAS BEEN RELEASED"
    "STORAGE FULL" "ATTEMPT TO USE ITEM OF INCORRECT TYPE" "ILLEGAL DATA TYPE NUMBER" "DATA TYPES
    FULL" "ATTEMPT TO BIND NIL OR T" "! too many user interrupt characters" "! read-macro context
    error" "ILLEGAL READTABLE" "ILLEGAL TERMINAL TABLE" "! swapblock too big for buffer"
    "PROTECTION VIOLATION" "BAD FILE NAME" "USER BREAK" "UNBOUND ATOM" "UNDEFINED CAR OF FORM"
    "UNDEFINED FUNCTION" "CONTROL-E" "FLOATING UNDERFLOW" "FLOATING OVERFLOW" "OVERFLOW" "ARG NOT
    HARRAY" "TOO MANY ARGUMENTS"))

(DEFOPTIMIZER LISPERROR (MESSAGE ARG)
  `(\LISPERROR ,ARG , (CL:IF (CL:STRINGP MESSAGE)
    [FOR X IN \ERRORMESSAGELIST AS I FROM 0
      WHEN (CL:EQUAL X MESSAGE) DO (RETURN I)
      FINALLY (RETURN (HELP "Unknown error message"
        (LIST MESSAGE ARG)
        MESSAGE)))
  )

;; END EXPORTED DEFINITIONS

(CL:DEFVAR *LAST-CONDITION* NIL
  "Last condition signalled. This gets rebound to itself in nested execs.")

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(GLOBALVARS \ERRORMESSAGELIST)
)

```