

File created: 16-May-90 11:58:35 {DSK}<usr>local>lde>lispcore>sources>AERROR.;2

changes to: (VARS AERRORCOMS)

previous date: 1-Feb-89 09:38:44 {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)

```

```

)

```

## (CL:DEFUN ERRM-TO-CONDITION (NUM MESSAGE)

```

  (CL:IF (TYPEP NUM 'CONDITION)

```

```

    NUM

```

```

    (CASE NUM

```

```

      (2 ; STACK OVERFLOW
        (MAKE-CONDITION 'STACK-OVERFLOW))
      (3 ; ILLEGAL RETURN
        (MAKE-CONDITION 'ILLEGAL-RETURN :TAG MESSAGE))
      ((4 10 14 28 38 39 51) ; ARG NOT x
        [MAKE-CONDITION 'XCL:TYPE-MISMATCH :NAME MESSAGE :VALUE MESSAGE :EXPECTED-TYPE
          (CL:CASE NUM
            (4 'LIST)
            (10 'CL:NUMBER)
            (14 'CL:SYMBOL)
            (28 'ARRAYP)
            (38 'READTABLEP)
            (39 'TERMTABLEP)
            (51 'CL:HASH-TABLE))]))

```

```

      (5 ; HARD DISK ERROR
        (MAKE-CONDITION 'XCL:SIMPLE-DEVICE-ERROR :MESSAGE MESSAGE))
      ((6 35) ; ATTEMPT TO SET NIL, ATTEMPT TO BIND NIL OR T
        (MAKE-CONDITION 'XCL:ATTEMPT-TO-CHANGE-CONSTANT :NAME NIL))
      (7 ; ATTEMPT TO RPLAC NIL
        (MAKE-CONDITION 'XCL:ATTEMPT-TO-RPLAC-NIL :NAME MESSAGE))
      (8 ; UNDEFINED OR ILLEGAL GO
        (MAKE-CONDITION 'ILLEGAL-GO :TAG MESSAGE))
      (9 ; FILE WON'T OPEN
        (MAKE-CONDITION 'XCL:FILE-WONT-OPEN :PATHNAME MESSAGE))
      (11 ; ATOM TOO LONG
        (MAKE-CONDITION 'XCL:SYMBOL-NAME-TOO-LONG))
      (12 ; ATOM HASH TABLE FULL
        (MAKE-CONDITION 'XCL:SYMBOL-HT-FULL))
      (13 ; FILE NOT OPEN
        (MAKE-CONDITION 'XCL:STREAM-NOT-OPEN :STREAM MESSAGE))
      (16 ; END OF FILE
        (MAKE-CONDITION 'END-OF-FILE :STREAM MESSAGE))
      (17 ; ERROR
        (MAKE-CONDITION 'INTERLISP-ERROR :MESSAGE MESSAGE))
      (19 ; ILLEGAL STACK ARG
        (MAKE-CONDITION 'ILLEGAL-STACK-ARG :ARG MESSAGE))
      (21 ; ARRAYS FULL
        (MAKE-CONDITION 'XCL:ARRAY-SPACE-FULL))
      (22 ; FILE SYSTEM RESOURCES EXCEEDED
        (MAKE-CONDITION 'XCL:FS-RESOURCES-EXCEEDED :PATHNAME MESSAGE))
      (23 ; FILE NOT FOUND
        (MAKE-CONDITION 'XCL:FILE-NOT-FOUND :PATHNAME MESSAGE))
      ((25 27) ; UNUSUAL CDR ARG LIST, ILLEGAL ARG
        (MAKE-CONDITION 'INVALID-ARGUMENT-LIST :ARGUMENT MESSAGE))
      (26 ; HASH TABLE FULL
        (MAKE-CONDITION 'XCL:HASH-TABLE-FULL :TABLE MESSAGE))

```

```

(30                                     ; STACK PTR HAS BEEN RELEASED
  (MAKE-CONDITION 'STACK-POINTER-RELEASED :NAME MESSAGE))
(31                                     ; STORAGE FULL
  (MAKE-CONDITION 'XCL:STORAGE-EXHAUSTED))
(34                                     ; DATA TYPES FULL
  (MAKE-CONDITION 'XCL:DATA-TYPES-EXHAUSTED))
(41                                     ; PROTECTION VIOLATION
  (MAKE-CONDITION 'XCL:FS-PROTECTION-VIOLATION :PATHNAME MESSAGE))
(42                                     ; BAD FILE NAME
  (MAKE-CONDITION 'XCL:INVALID-PATHNAME :PATHNAME MESSAGE))
(44                                     ; UNBOUND ATOM
  (MAKE-CONDITION 'UNBOUND-VARIABLE :NAME MESSAGE))
(45                                     ; UNDEFINED CAR OF FORM
  (MAKE-CONDITION 'UNDEFINED-CAR-OF-FORM :FUNCTION MESSAGE))
(46                                     ; UNDEFINED FUNCTION
  (MAKE-CONDITION 'UNDEFINED-FUNCTION-IN-APPLY :NAME (CL:FIRST MESSAGE)
    :ARGUMENTS
    (CL:SECOND MESSAGE)))
(47                                     ; CONTROL-E
  (MAKE-CONDITION 'XCL:CONTROL-E-INTERRUPT))
(48                                     ; FLOATING UNDERFLOW
  (MAKE-CONDITION 'CONDITIONS:FLOATING-POINT-UNDERFLOW))
(49                                     ; FLOATING OVERFLOW
  (MAKE-CONDITION 'CONDITIONS:FLOATING-POINT-OVERFLOW))
(52                                     ; TOO MANY ARGUMENTS
  (MAKE-CONDITION 'TOO-MANY-ARGUMENTS :CALLEE MESSAGE :MAXIMUM CL:CALL-ARGUMENTS-LIMIT))
(CL:OTHERWISE (CL:ERROR "Interlisp error number ~D (message: ~S) no longer supported" NUM MESSAGE)))
)

(PUTPROPS AERROR FILETYPE CL:COMPILE-FILE)

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(LOCALVARS . T)
)

(PUTPROPS AERROR COPYRIGHT ("Venue & Xerox Corporation" 1982 1983 1986 1987 1988 1989 1990))

```

---

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