

File created: 16-May-90 16:27:39 {DSK}<usr>local>lde>lispcore>sources>ERROR-RUNTIME.;2

changes to: (VARS ERROR-RUNTIMECOMS)

previous date: 5-Feb-88 15:54:20 {DSK}<usr>local>lde>lispcore>sources>ERROR-RUNTIME.;1

Read Table: XCL

Package: INTERLISP

Format: XCCS

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(RPAQQ **ERROR-RUNTIMECOMS**

((COMS

;;; Internal functions.

```
(FUNCTIONS SI::CONDITION-CASE-ERROR CONDITION-HANDLER CONDITION-REPORTER %PRINT-CONDITION
CONDITIONS::%RESTART-PRINTER CONDITIONS::%RESTART-DEFAULT-REPORTER REPORT-CONDITION
CONDITION-PARENT)
(VARIABLES *CONDITION-HANDLER-BINDINGS* *PROCEED-CASES*)
(FUNCTIONS CHECK-TYPE-FAIL ECASE-FAIL ASSERT-FAIL)
(FUNCTIONS MAKE-INTO-CONDITION RAISE-SIGNAL DEFAULT-HANDLE-CONDITION DEFAULT-PROCEED-REPORTER
CONDITIONS::DEFAULT-RESTART-REPORTER DEFAULT-PROCEED-TEST TEST-PROCEED-CASE
WALK-PROCEED-CASES SI::INVOKE-ACTUAL-RESTART))
```

(COMS

;;; Exported symbols. Anything here that's not in CL should be in XCL.

```
(VARIABLES CONDITIONS:*BREAK-ON-SIGNALS* *BREAK-ON-WARNINGS* XCL:*CURRENT-CONDITION*)
(FUNCTIONS MAKE-CONDITION SIGNAL CL:ERROR CL:CERROR CL:WARN CL:BREAK CONDITIONS:INVOKE-DEBUGGER)
(FUNCTIONS CONDITIONS:FIND-RESTART CONDITIONS:COMPUTE-RESTARTS CONDITIONS:INVOKE-RESTART
CONDITIONS:INVOKE-RESTART-INTERACTIVELY))
(PROP FILETYPE ERROR-RUNTIME))
```

;;; Internal functions.

```
(CL:DEFUN SI::CONDITION-CASE-ERROR (SI::REAL-SELECTOR SI::POSSIBILITIES)
(CL:ERROR "Unexpected selector in ~S." 'CONDITION-CASE SI::REAL-SELECTOR SI::POSSIBILITIES))
```

```
(DEFMACRO CONDITION-HANDLER (XCL::CONDITION-TYPE)
` (GETPROP ,XCL::CONDITION-TYPE '%CONDITION-HANDLER))
```

```
(DEFMACRO CONDITION-REPORTER (XCL::CONDITION-TYPE)
` (GETPROP ,XCL::CONDITION-TYPE '%CONDITION-REPORTER))
```

```
(CL:DEFUN %PRINT-CONDITION (CONDITION STREAM LEVEL)
(DECLARE (IGNORE LEVEL))
(CL:IF *PRINT-ESCAPE*
 (CL:FORMAT STREAM "#<Condition ~S @ ~O,~O>" (CL:TYPE-OF CONDITION)
 (\HILOC CONDITION)
 (\LOLOC CONDITION))
 (REPORT-CONDITION CONDITION STREAM)))
```

```
(CL:DEFUN CONDITIONS::%RESTART-PRINTER (CONDITIONS:RESTART STREAM CONDITIONS::LEVEL)
(CL:IF *PRINT-ESCAPE*
 (CL:FUNCALL CL::%DEFAULT-PRINT-FUNCTION CONDITIONS:RESTART STREAM CONDITIONS::LEVEL)
 (LET ((CONDITIONS::REPORTER (OR (CONDITIONS::RESTART-REPORT CONDITIONS:RESTART)
(CONDITIONS::DEFAULT-RESTART-REPORT (CONDITIONS:RESTART-NAME
CONDITIONS:RESTART))
(CL:RETURN-FROM CONDITIONS::%RESTART-PRINTER (
CONDITIONS::DEFAULT-RESTART-REPORTER
CONDITIONS:RESTART STREAM))
)))
(CL:IF (CL:STRINGP CONDITIONS::REPORTER)
(CL:PRINC CONDITIONS::REPORTER STREAM)
(CL:FUNCALL CONDITIONS::REPORTER STREAM))))))
```

```
(CL:DEFUN CONDITIONS::%RESTART-DEFAULT-REPORTER (CONDITIONS:RESTART STREAM)
(CL:FUNCALL (CONDITIONS::DEFAULT-RESTART-REPORT (CONDITIONS:RESTART-NAME CONDITIONS:RESTART))
CONDITIONS:RESTART STREAM))
```

```
(CL:DEFUN REPORT-CONDITION (CONDITION STREAM)
(CL:DO* ((TYPE (CL:TYPE-OF CONDITION))
(CONDITION-PARENT TYPE))
(REPORTER (CONDITION-REPORTER TYPE)
(CONDITION-REPORTER TYPE)))
(NULL TYPE))
```

```
(CL:BREAK "No report function found for ~S." CONDITION))
(CL:WHEN REPORTER
  (RETURN (CL:IF (CL:STRINGP REPORTER)
    (CL:PRINC REPORTER STREAM)
    (CL:FUNCALL REPORTER CONDITION STREAM))))))
```

```
(CL:DEFUN CONDITION-PARENT (TYPE)
  (LET ((PARENT (GETSUPERTYPE TYPE)))
    (CL:IF (EQ PARENT 'CL::STRUCTURE-OBJECT)
      NIL
      PARENT)))
```

```
(CL:DEFVAR *CONDITION-HANDLER-BINDINGS* NIL
  "Condition handler binding stack")
```

```
(CL:DEFVAR *PROCEED-CASES* NIL
  "Active proceed case stack")
```

```
(CL:DEFUN CHECK-TYPE-FAIL (PROCEEDABLE PLACE VALUE DESIRED-TYPE MESSAGE)
  (CONDITIONS:RESTART-CASE (CL:ERROR 'XCL:TYPE-MISMATCH :NAME PLACE :VALUE VALUE :EXPECTED-TYPE DESIRED-TYPE
    :MESSAGE MESSAGE)
    (STORE-VALUE (NEW)
      :REPORT
      (LAMBDA (STREAM)
        (CL:FORMAT STREAM "Change the value of ~A" PLACE))
      :INTERACTIVE
      (LAMBDA NIL
        (CL:FORMAT *QUERY-IO* "Enter a new value to store into ~A: " PLACE)
        (LIST (CL:EVAL (CL:READ *QUERY-IO*))))
      :FILTER
      (LAMBDA NIL
        (AND PROCEEDABLE (TYPEP XCL:*CURRENT-CONDITION* 'XCL:TYPE-MISMATCH)))
      NEW)))
```

```
(CL:DEFUN ECASE-FAIL (PROCEEDABLE PLACE VALUE SELECTORS)
  (CONDITIONS:RESTART-CASE (CL:IF (EQL PLACE VALUE)
    (CL:ERROR "~S is ~?. " VALUE "~#[wrong~;not ~S~;neither ~S nor ~S~;not~@{~#[~;
      or~] ~S~^,~}~]" SELECTORS)
    (CL:ERROR "The value of ~S, ~S,~&is ~?. " PLACE VALUE "~#[wrong~;not ~S~;neither
      ~S nor ~S~;not~@{~#[~; or~] ~S~^,~}~]" SELECTORS))
    (STORE-VALUE (V)
      :FILTER
      (LAMBDA NIL PROCEEDABLE)
      :REPORT
      (LAMBDA (STREAM)
        (CL:FORMAT STREAM "Change the value of ~A" PLACE))
      :INTERACTIVE
      (LAMBDA NIL
        (CL:FORMAT *QUERY-IO* "Enter a new value to store into ~A: " PLACE)
        (LIST (CL:EVAL (CL:READ *QUERY-IO*))))
      V)))
```

```
(CL:DEFUN ASSERT-FAIL (STRING &REST ARGS)
  (PROCEED-CASE (CL:ERROR 'XCL:ASSERTION-FAILED :FORMAT-STRING STRING :FORMAT-ARGUMENTS ARGS)
    (CONDITIONS:CONTINUE NIL :REPORT "Re-test assertion")))
```

```
(CL:DEFUN MAKE-INTO-CONDITION (DATUM DESIRED-TYPE ARGS)
  (CL:ETYPESCASE DATUM
    (CONDITION DATUM)
    (CL:SYMBOL (CL:IF (CL:SUBTYPEP DATUM 'CONDITION)
      (CL:APPLY 'MAKE-CONDITION DATUM ARGS)
      (CL:ERROR "~S is not a condition type." DATUM)))
    (STRING (MAKE-CONDITION DESIRED-TYPE :FORMAT-STRING DATUM :FORMAT-ARGUMENTS ARGS))))
```

```
(CL:DEFUN RAISE-SIGNAL (CONDITION)
  (CL:WHEN (TYPEP CONDITION CONDITIONS:*BREAK-ON-SIGNALS*)
    (CL:BREAK "Condition ~S is about to be signalled." CONDITION))
  (LET ((*CONDITION-HANDLER-BINDINGS* *CONDITION-HANDLER-BINDINGS*))
    (CL:FLET ((TRY-TO-HANDLE (CONDITION TYPE-SPEC HANDLER)
      (CL:MACROLET ((WITHOUT-HANDLERS (&BODY BODY)
        ^ (LET (*CONDITION-HANDLER-BINDINGS*
          ,@BODY)))
        (CL:WHEN (PROCEED-CASE (WITHOUT-HANDLERS (TYPEP CONDITION TYPE-SPEC)
          (PROCEED NIL :REPORT "Skip the bad handler binding" NIL))
          (CL:FUNCALL HANDLER CONDITION))))))
      (WHILE *CONDITION-HANDLER-BINDINGS*
        DO (LET ((BINDING (CL:POP *CONDITION-HANDLER-BINDINGS*))
          (IF (EQ (CL:FIRST BINDING)
            :MULTIPLE-HANDLER-BINDINGS)
```

```

      THEN (CL:POP BINDING)
            (WHILE BINDING DO (TRY-TO-HANDLE CONDITION (CL:POP BINDING)
            (CL:POP BINDING)))
      ELSE (TRY-TO-HANDLE CONDITION (CAR BINDING)
            (CDR BINDING)))
    FINALLY (DEFAULT-HANDLE-CONDITION CONDITION))
  CONDITION))

```

```

(CL:DEFUN DEFAULT-HANDLE-CONDITION (CONDITION)
  (CL:DO ((TYPE (CL:TYPE-OF CONDITION)
    (CONDITION-PARENT TYPE)))
    ((NULL TYPE))
    (LET ((HANDLER (CONDITION-HANDLER TYPE))
      (CL:WHEN HANDLER (CL:FUNCALL HANDLER CONDITION))))))

```

```

(CL:DEFUN DEFAULT-PROCEED-REPORTER (PC STREAM)
  (CL:FORMAT STREAM "Proceed-type: ~A" (PROCEED-CASE-NAME PC)))

```

```

(CL:DEFUN CONDITIONS::DEFAULT-RESTART-REPORTER (CONDITIONS:RESTART STREAM)
  (CL:FORMAT STREAM "Restart type: ~A" (CONDITIONS:RESTART-NAME CONDITIONS:RESTART)))

```

```

(DEFMACRO DEFAULT-PROCEED-TEST (XCL::PROCEED-TYPE)
  `(GETPROP ,XCL::PROCEED-TYPE '%DEFAULT-PROCEED-TEST))

```

```

(CL:DEFUN TEST-PROCEED-CASE (PC &AUX FILTER)
  (COND
    ((CL:SETF FILTER (CONDITIONS::RESTART-TEST PC))
    (CL:FUNCALL FILTER))
    ((CONDITIONS:RESTART-NAME PC)
    (CL:IF (CL:SETF FILTER (DEFAULT-PROCEED-TEST (CONDITIONS:RESTART-NAME PC)))
      (CL:FUNCALL FILTER)
      T))
    (T
    T)))
; unnamed proceed case with no explicit test

```

```

(CL:DEFUN WALK-PROCEED-CASES (PROCEED-CASES PRED)
  (CL:FLET ((CONVERT-PROCEED-CASE (PC BLIP)
    (CL:IF (NULL (CONDITIONS::RESTART-TAG PC))
      (LET ((NEW (CONDITIONS::COPY-RESTART PC))
        (CL:SETF (CONDITIONS::RESTART-TAG NEW)
          BLIP)
          NEW)
        PC)))
    (CL:DO ((TAIL PROCEED-CASES (CDR TAIL))
      ((NULL TAIL)
      NIL)
      (CL:MACROLET ((PROCESS-THING (THING BLIP)
        `(LET ((PC (CONVERT-PROCEED-CASE ,THING ,BLIP)))
          (CL:WHEN (CL:FUNCALL PRED PC)
            (CL:RETURN-FROM WALK-PROCEED-CASES PC))))))
        (LET ((OBJECT (CAR TAIL)))
          (CL:IF (CL:CONSP OBJECT)
            (CL:DO ((THINGS OBJECT (CDR THINGS))
              ((NULL THINGS))
              (PROCESS-THING (CAR THINGS)
                TAIL))
              (PROCESS-THING OBJECT TAIL))))))))))

```

```

(CL:DEFUN SI::INVOKE-ACTUAL-RESTART (SI::RESTART SI::ARGUMENTS)
  (COND
    ((NULL (CONDITIONS::RESTART-FUNCTION SI::RESTART))
    (CL:THROW (CONDITIONS::RESTART-TAG SI::RESTART)
      (CONS (CONDITIONS::RESTART-SELECTOR SI::RESTART)
        SI::ARGUMENTS)))
    ((EQ (CONDITIONS::RESTART-SELECTOR SI::RESTART)
      'SI::COMPLEX-RESTART-MARKER)
    (CL:APPLY (CONDITIONS::RESTART-FUNCTION SI::RESTART)
      SI::ARGUMENTS))
    (T (CL:ERROR "Malformed restart object ~S." SI::RESTART))))

```

;;; Exported symbols. Anything here that's not in CL should be in XCL.

```

(CL:DEFVAR CONDITIONS:*BREAK-ON-SIGNALS* NIL)

```

```

(CL:DEFVAR *BREAK-ON-WARNINGS* NIL
  "If true, calls to WARN will cause a break as well as logging the warning.")

```

```
(CL:DEFVAR XCL:*CURRENT-CONDITION* NIL
 "The condition currently being signalled")
```

```
(CL:DEFUN MAKE-CONDITION (TYPE &REST XCL::SLOT-INITIALIZATIONS)
 "Create a condition object of the specified type."
 (CL:APPLY (CL::STRUCTURE-CONSTRUCTOR TYPE)
 XCL::SLOT-INITIALIZATIONS))
```

```
(CL:DEFUN SIGNAL (XCL::DATUM &REST XCL::ARGS)
 (LET ((XCL:*CURRENT-CONDITION* (MAKE-INTO-CONDITION XCL::DATUM 'SIMPLE-CONDITION XCL::ARGS)))
 (RAISE-SIGNAL (CL:SETQ *LAST-CONDITION* XCL:*CURRENT-CONDITION*))
 (CL:RETURN-FROM SIGNAL XCL:*CURRENT-CONDITION*)))
```

```
(CL:DEFUN CL:ERROR (CL::DATUM &REST CL::ARGS)
 ;; In Xerox Common Lisp, as with Interlisp, errors may not enter the debugger if they are simple, defined by ENTER-DEBUGGER-P
```

```
(LET ((XCL:*CURRENT-CONDITION* (MAKE-INTO-CONDITION CL::DATUM 'SIMPLE-ERROR CL::ARGS)))
 (RAISE-SIGNAL (CL:SETQ *LAST-CONDITION* XCL:*CURRENT-CONDITION*)))
```

```
;; may just unwind.
(RESETLST
 (LET ((PRINTMSG T)
 (ERRORPOS (FIND-DEBUGGER-ENTRY-FRAME 'CL:ERROR)))
 (DECLARE (CL:SPECIAL PRINTMSG ERRORPOS))
 (RESETSAVE NIL (LIST 'RELSTK ERRORPOS))
 (COND
 ((NULL (ENTER-DEBUGGER-P HELPDEPTH ERRORPOS XCL:*CURRENT-CONDITION*))
 ;; says not to enter debugger
 (COND
 (PRINTMSG ; print message if no break is to occur.
 (CL:PRINC XCL:*CURRENT-CONDITION* *ERROR-OUTPUT*))
 (ERROR!)))
 (DEBUGGER :CONDITION XCL:*CURRENT-CONDITION* :AT (STKNAME ERRORPOS))))))
```

```
(CL:DEFUN CL:CERROR (CL::PROCEED-FORMAT-STRING CL::DATUM &REST CL::ARGUMENTS)
 (LET ((XCL:*CURRENT-CONDITION* (MAKE-INTO-CONDITION CL::DATUM 'SIMPLE-ERROR CL::ARGUMENTS)))
 (PROCEED-CASE (CL:ERROR XCL:*CURRENT-CONDITION*)
 (CONDITIONS:CONTINUE NIL :REPORT (CL:APPLY (FUNCTION CL:FORMAT)
 T CL::PROCEED-FORMAT-STRING CL::ARGUMENTS)
 (CL:RETURN-FROM CL:CERROR XCL:*CURRENT-CONDITION*))))))
```

```
(CL:DEFUN CL:WARN (CL::DATUM &REST CL::ARGUMENTS)
 (LET ((XCL:*CURRENT-CONDITION* (MAKE-INTO-CONDITION CL::DATUM 'SIMPLE-WARNING CL::ARGUMENTS)))
 (CL:UNLESS (TYPEP XCL:*CURRENT-CONDITION* 'WARNING)
 (CL:CERROR "Signal and report the condition anyway" 'XCL:TYPE-MISMATCH :NAME 'CL::CONDITION :VALUE
 XCL:*CURRENT-CONDITION* :EXPECTED-TYPE 'WARNING))
 (CL:WHEN *BREAK-ON-WARNINGS* (CL:BREAK "Warning: ~A" XCL:*CURRENT-CONDITION*))
 (PROCEED-CASE (PROGN (RAISE-SIGNAL XCL:*CURRENT-CONDITION*)
 (CL:FORMAT *ERROR-OUTPUT* "~&Warning: ~A~%" XCL:*CURRENT-CONDITION*)
 NIL)
 (CONDITIONS:MUFFLE-WARNING NIL :REPORT "Don't print the warning" NIL))))
```

```
(CL:DEFUN CL:BREAK (&OPTIONAL (CL::FORMAT-STRING "Break.")
 &REST CL::FORMAT-ARGUMENTS)
 ;; Want to try and get some indication of which break you're returning from.
 (PROCEED-CASE (CONDITIONS:INVOKE-DEBUGGER (MAKE-CONDITION 'SIMPLE-CONDITION :FORMAT-STRING
 CL::FORMAT-STRING :FORMAT-ARGUMENTS CL::FORMAT-ARGUMENTS))
 (CONDITIONS:CONTINUE NIL :REPORT "Return from BREAK" (CL:RETURN-FROM CL:BREAK NIL))))
```

```
(CL:DEFUN CONDITIONS:INVOKE-DEBUGGER (CONDITION)
 ;; always enter debugger, never return
 (DEBUGGER :CONDITION CONDITION))
```

```
(CL:DEFUN CONDITIONS:FIND-RESTART (CONDITIONS::IDENTIFIER)
 (CL:FLET ((CONDITIONS::SAME-RESTART (CONDITIONS::IDENTIFIER CONDITIONS::PROTOTYPE))
 (CL:ETYPESCASE CONDITIONS::IDENTIFIER
 (NULL (CL:ERROR "~S is an invalid argument to ~S;~% use ~S instead" NIL
 'CONDITIONS:FIND-RESTART 'CONDITIONS:COMPUTE-RESTARTS))
 (CONDITIONS:RESTART (WALK-PROCEED-CASES *PROCEED-CASES*
 #'(CL:LAMBDA (CONDITIONS:RESTART)
 (AND (OR (EQ CONDITIONS::IDENTIFIER CONDITIONS:RESTART)
 (AND (CONDITIONS::RESTART-TAG CONDITIONS::IDENTIFIER)
 (EQ (CONDITIONS:RESTART-NAME
 CONDITIONS::IDENTIFIER)
 (CONDITIONS:RESTART-NAME CONDITIONS:RESTART)
 ))))))))
```

```

(EQ (CONDITIONS::RESTART-TAG
    CONDITIONS::IDENTIFIER)
    (CONDITIONS::RESTART-TAG CONDITIONS:RESTART)
)
(EQ (CONDITIONS::RESTART-SELECTOR
    CONDITIONS::IDENTIFIER)
    (CONDITIONS::RESTART-SELECTOR
    CONDITIONS:RESTART))
(EQ (CONDITIONS::RESTART-TEST
    CONDITIONS::IDENTIFIER)
    (CONDITIONS::RESTART-TEST CONDITIONS:RESTART
    ))
(EQ (CONDITIONS::RESTART-REPORT
    CONDITIONS::IDENTIFIER)
    (CONDITIONS::RESTART-REPORT
    CONDITIONS:RESTART))
(EQ (CONDITIONS::RESTART-INTERACTIVE-FN
    CONDITIONS::IDENTIFIER)
    (CONDITIONS::RESTART-INTERACTIVE-FN
    CONDITIONS:RESTART))
(EQ (CONDITIONS::RESTART-FUNCTION
    CONDITIONS::IDENTIFIER)
    (CONDITIONS::RESTART-FUNCTION
    CONDITIONS:RESTART)))
(TEST-PROCEED-CASE CONDITIONS:RESTART)))
(CL:SYMBOL (WALK-PROCEED-CASES *PROCEED-CASES* #'(CL:LAMBDA (CONDITIONS:RESTART)
    (AND (EQ (CONDITIONS:RESTART-NAME
    CONDITIONS:RESTART)
    CONDITIONS::IDENTIFIER)
    (TEST-PROCEED-CASE
    CONDITIONS:RESTART))))))

```

```

(CL:DEFUN CONDITIONS:COMPUTE-RESTARTS ()
  (LET ((CONDITIONS::FOUND NIL))
    (WALK-PROCEED-CASES *PROCEED-CASES* #'(CL:LAMBDA (CONDITIONS:RESTART)
      (CL:WHEN (CL:CATCH 'SI::SKIP-PROCEED-CASE (
        TEST-PROCEED-CASE
        CONDITIONS:RESTART
        ))
      (CL:PUSH CONDITIONS:RESTART CONDITIONS::FOUND))
      NIL))
    (CL:NREVERSE CONDITIONS::FOUND)))

```

```

(CL:DEFUN CONDITIONS:INVOKE-RESTART (CONDITIONS:RESTART &REST CONDITIONS::ARGUMENTS)
  (LET ((CONDITIONS::R (CONDITIONS:FIND-RESTART CONDITIONS:RESTART)))
    (CL:IF (NULL CONDITIONS::R)
      (CL:ERROR 'XCL:BAD-PROCEED-CASE :NAME CONDITIONS:RESTART)
      (SI::INVOKE-ACTUAL-RESTART CONDITIONS::R CONDITIONS::ARGUMENTS))))

```

```

(CL:DEFUN CONDITIONS:INVOKE-RESTART-INTERACTIVELY (CONDITIONS:RESTART)
  (LET ((CONDITIONS::R (CONDITIONS:FIND-RESTART CONDITIONS:RESTART)))
    (CL:IF (NULL CONDITIONS::R)
      (CL:ERROR 'XCL:BAD-PROCEED-CASE :NAME CONDITIONS:RESTART)
      (LET ((CONDITIONS::I-FN (CONDITIONS::RESTART-INTERACTIVE-FN CONDITIONS:RESTART)))
        (SI::INVOKE-ACTUAL-RESTART CONDITIONS::R (CL:IF CONDITIONS::I-FN (CL:FUNCALL CONDITIONS::I-FN)
        ))))))

```

```
(PUTPROPS ERROR-RUNTIME FILETYPE CL:COMPILE-FILE)
```

```
(PUTPROPS ERROR-RUNTIME COPYRIGHT ("Venue & Xerox Corporation" 1986 1987 1988 1990))
```

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