```
16-May-90 14:56:15 {DSK}<usr>local>lde>lispcore>sources>CMLWALK.;2
 File created:
  changes to:
               (VARS CMLWALKCOMS)
               17-Jun-87 17:43:58 {DSK}<usr>local>lde>lispcore>sources>CMLWALK.;1
previous date:
 Read Table:
               INTERLISP
   Package:
               INTERLISP
      Format:
                XCCS
"Copyright (c) 1986, 1987, 1990 by Venue & Xerox Corporation. All rights reserved.
(RPAQQ CMLWALKCOMS
       [ (FUNCTIONS XCL:ONCE-ONLY)
                                                                       ; not a wonderful place for it, but CMLMACROS comes too eraly
                                                                       in the loadup.
         (VARIABLES *WALK-FUNCTION* *WALK-FORM* *DECLARATIONS* *LEXICAL-VARIABLES* *ENVIRONMENT* *WALK-COPY*)
         (FUNCTIONS WITH-NEW-CONTOUR NOTE-LEXICAL-BINDING NOTE-DECLARATION)
(FUNCTIONS VARIABLE-SPECIAL-P VARIABLE-LEXICAL-P GET-WALKER-TEMPLATE)
         (FUNCTIONS WALK-FORM)
         (FNS WALK-FORM-INTERNAL WALK-TEMPLATE WALK-TEMPLATE-HANDLE-REPEAT WALK-TEMPLATE-HANDLE-REPEAT-1
              WALK-LIST WALK-RECONS)
         (FUNCTIONS WALK-RELIST*)
         (FNS WALK-DECLARATIONS WALK-ARGLIST WALK-LAMBDA)
         (COMS (PROP WALKER-TEMPLATE CL:COMPILER-LET)
               (FNS WALK-COMPILER-LET)
               (PROP WALKER-TEMPLATE DECLARE)
               (FNS WALK-UNEXPECTED-DECLARE)
               (PROP WALKER-TEMPLATE LET PROG LET* PROG*)
               (FNS WALK-LET WALK-LET* WALK-LET/LET*)
               (PROP WALKER-TEMPLATE CL: TAGBODY)
               (FNS WALK-TAGBODY)
               (PROP WALKER-TEMPLATE FUNCTION CL:FUNCTION GO CL:IF CL:MULTIPLE-VALUE-CALL CL:MULTIPLE-VALUE-PROG1
                      PROGN CL:PROGV QUOTE CL:RETURN-FROM RETURN CL:SETQ CL:BLOCK CL:CATCH CL:EVAL-WHEN THE
                      CL:THROW CL:UNWIND-PROTECT LOAD-TIME-EVAL COND CL:UNWIND-PROTECT SETQ AND OR))
         (COMS
               :: for Interlisp
               (PROP WALKER-TEMPLATE RPAQ? RPAQ XNLSETQ ERSETQ NLSETQ RESETVARS))
         (PROP FILETYPE CMLWALK)
         (DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS
                (ADDVARS (NLAMA)
                        (NLAML)
                        (LAMA WALK-TAGBODY WALK-LET/LET* WALK-LET* WALK-LET WALK-UNEXPECTED-DECLARE
                              WALK-COMPILER-LET WALK-LAMBDA WALK-ARGLIST WALK-DECLARATIONS WALK-RECONS
                              WALK-TEMPLATE-HANDLE-REPEAT-1 WALK-TEMPLATE-HANDLE-REPEAT WALK-TEMPLATE
                              WALK-FORM-INTERNAL1)
(DEFMACRO XCL:ONCE-ONLY (XCL::VARS &BODY XCL::BODY)
  ONCE-ONLY assures that the forms given as vars are evaluated in the proper order, once only. Used in the body of macro definitions. Taken from
::: Zeta Lisp.
   [LET* [(XCL::GENSYM-VAR (CL:GENSYM))
           (XCL::RUN-TIME-VARS (CL:GENSYM))
(XCL::RUN-TIME-VALS (CL:GENSYM))
           (XCL::EXPAND-TIME-VAL-FORMS (FOR XCL::VAR IN XCL::VARS

COLLECT \((CL:IF \) (OR (CL:SYMBOLP , XCL::VAR)
                                                                    (CL:CONSTANTP , XCL::VAR))
                                                            ,XCL::VAR
                                                             (LET ((,XCL::GENSYM-VAR (CL:GENSYM)))
                                                                  (CL:PUSH , XCL::GENSYM-VAR , XCL::RUN-TIME-VARS)
                                                                  (CL:PUSH ,XCL::VAR ,XCL::RUN-TIME-VALS)
                                                                  ,XCL::GENSYM-VAR))]
          '(LET* [,XCL::RUN-TIME-VARS ,XCL::RUN-TIME-VALS
                         (XCL::WRAPPED-BODY (LET , (FOR XCL::VAR IN XCL::VARS AS XCL::EXPAND-TIME-VAL-FORM
                                                        IN XCL::EXPAND-TIME-VAL-FORMS COLLECT (LIST XCL::VAR
                                                                                                XCL::EXPAND-TIME-VAL-FORM
                                                     @XCL::BODY]
                  '(LET , (FOR XCL::RUN-TIME-VAR IN (CL:REVERSE XCL::RUN-TIME-VARS) AS XCL::RUN-TIME-VAL
                               (CL:REVERSE XCL::RUN-TIME-VALS) COLLECT (LIST XCL::RUN-TIME-VAR XCL::RUN-TIME-VAL)
                            IN
                        , XCL::WRAPPED-BODY])
;; not a wonderful place for it, but CMLMACROS comes too eraly in the loadup.
(CL:DEFVAR *WALK-FUNCTION* NIL
   "the function being called on each sub-form in the code-walker")
(CL:DEFVAR *WALK-FORM*
```

(WALK-FORM-INTERNAL

(DEFINEO

[CL:LAMBDA (FORM CONTEXT &AUX FN TEMPLATE WALK-NO-MORE-P NEWFORM)

(* lmm "24-May-86 20:28")

;; WALK-FORM-INTERNAL is the main driving function for the code walker. It takes a form and the current context and walks the form ;; calling itself or the appropriate template recursively.

```
(WALK-NO-MORE-P NEWFORM)
              (NOT (EQ FORM NEWFORM))
(WALK-FORM-INTERNAL NEWFORM CONTEXT))
            ((NOT (CL:CONSP FORM))
             FORM)
                   (CL:SYMBOLP (CAR FORM)))
             ((NOT
             (WALK-TEMPLATE FORM '(:CALL :REPEAT (:EVAL))
                     CONTEXT))
            ((SETQ TEMPLATE (GET-WALKER-TEMPLATE (CAR FORM)))
             (CL:IF (CL:SYMBOLP TEMPLATE)
                      FUNCALL TEMPLATE FORM CONTEXT)
                  (WALK-TEMPLATE FORM TEMPLATE CONTEXT)))
            ((NEO FORM (SETO FORM (CL:MACROEXPAND-1 FORM *ENVIRONMENT*)))
              (WALK-FORM-INTERNAL FORM CONTEXT))
            ^{(T)};; Otherwise, walk the form as if its just a standard function call using a template for standard function call.
                (WALK-TEMPLATE FORM '(:CALL :REPEAT (:EVAL))
(WALK-TEMPLATE
  [CL:LAMBDA (FORM TEMPLATE CONTEXT)
                                                                    (* lmm "24-May-86 16:43")
         (CL:IF (CL:ATOM TEMPLATE)
             (CL:ECASE TEMPLATE
                  ((CALL :CALL) (if (CL:CONSP FORM)
then (WALK-LAMBDA FORM NIL)
                                  else FORM))
                  ((QUOTE NIL PPE : ERROR) FORM)
                  ((:EVAL EVAL :FUNCTION FUNCTION :TEST TEST :EFFECT :EFFECT :RETURN RETURN) (WALK-FORM-INTERNAL
                                                                                                  FORM
                                                                                                  ':EVAL))
                  ((SET :SET) (WALK-FORM-INTERNAL FORM ':SET)) (CL:LAMBDA (WALK-LAMBDA FORM CONTEXT)))
              (CASE (CAR TEMPLATE)
                  (CL:IF (LET ((*WALK-FORM* FORM))
                               (WALK-TEMPLATE FORM (COND
                                                         ((CL:IF (LISTP (CL:SECOND TEMPLATE))
                                                              (CL:EVAL (CL:SECOND TEMPLATE))
                                                              (CL:FUNCALL (CL:SECOND TEMPLATE)
                                                                     FORM))
                                                          (CL:THIRD TEMPLATE))
                                                         (T (CL:FOURTH TEMPLATE)))
                                      CONTEXT)))
                  ((REPEAT : REPEAT) (WALK-TEMPLATE-HANDLE-REPEAT FORM (CDR TEMPLATE)
                                            (CL:NTHCDR (- (CL:LENGTH FORM)
                                                           (CL:LENGTH (CDDR TEMPLATE)))
                                                    FORM)
                                            CONTEXT))
                  (T [COND
                        ((CL:ATOM FORM)
                         FORM)
                        (T (WALK-RECONS FORM (WALK-TEMPLATE (CAR FORM)
                                                        (CAR TEMPLATE)
                                                        CONTEXT)
                                   (WALK-TEMPLATE (CDR FORM)
                                          (CDR TEMPLATE)
                                          CONTEXT])))])
WALK-TEMPLATE-HANDLE-REPEAT
  (CL:LAMBDA (FORM TEMPLATE STOP-FORM CONTEXT)
                                                                    (* lmm "11-Apr-86 12:05")
         (CL:IF (EO FORM STOP-FORM)
              (WALK-TEMPLATE FORM (CDR TEMPLATE)
              (WALK-TEMPLATE-HANDLE-REPEAT-1 FORM TEMPLATE (CAR TEMPLATE)
                     STOP-FORM CONTEXT))))
(WALK-TEMPLATE-HANDLE-REPEAT-1
  [CL:LAMBDA (FORM TEMPLATE REPEAT-TEMPLATE STOP-FORM CONTEXT) (* Imm "24-May-86 16:43")
         (COND
            ((NULL FORM)
             NIL)
            ((EQ FORM STOP-FORM)
             (CL:IF (NULL REPEAT-TEMPLATE)
                  (WALK-TEMPLATE STOP-FORM (CDR TEMPLATE)
                         CONTEXT)
                  (CL:ERROR "While handling repeat:
                                               ~%%~Ran into stop while still in repeat template.")))
              (WALK-TEMPLATE-HANDLE-REPEAT-1 FORM TEMPLATE (CAR TEMPLATE)
                     STOP-FORM CONTEXT)
            (T (WALK-RECONS FORM (WALK-TEMPLATE (CAR FORM)
                                            (CAR REPEAT-TEMPLATE)
                                            CONTEXT)
                       (WALK-TEMPLATE-HANDLE-REPEAT-1 (CDR FORM)
                              TEMPLATE
```

(CDR REPEAT-TEMPLATE)
STOP-FORM CONTEXT])

```
(WALK-LIST
  [LAMBDA (LIST FN)
                                                                         * lmm "24-May-86 16:43")
                                                                        (* copy list walking each element)
    (CL:IF LIST
         (WALK-RECONS LIST (CL:FUNCALL FN (CAR LIST))
                 (WALK-LIST (CDR LIST)
                        FN)))])
(WALK-RECONS
  (CL:LAMBDA (X CAR CDR)
(CL:IF *WALK-COPY*
                                                                        (* lmm "24-May-86 16:43")
              (CL:IF (OR (NOT (EQ (CAR X)
                                     CAR))
                           (NOT (EQ (CDR X)
                                     CDR)))
                   (CONS CAR CDR)
                  X)
              NIL)))
(DEFMACRO WALK-RELIST* (X FIRST &REST CL:REST)
        '(WALK-RECONS , X , FIRST (WALK-RELIST* (CDR , X)
                                            ,@CL:REST))
       FIRST))
(DEFINEQ
(WALK-DECLARATIONS
 [CL:LAMBDA (BODY FN &OPTIONAL DOC-STRING-P DECLARATIONS &AUX (FORM (CAR BODY)))
(* Imm "18-Jun-86 14:35")
                                                                         (* skips over declarations)
          (COND
             ((AND (STRINGP FORM)
                                                                          might be a doc string *)
                    (CDR BODY)
                                                                          isn't the returned value *)
                    (NULL DOC-STRING-P)
                                                                          no doc string yet *)
                                                                         (* no declarations yet *)
                          DECLARATIONS))
              (WALK-RECONS BODY FORM (WALK-DECLARATIONS (CDR BODY)
                                                  FN T)))
             ((AND (LISTP FORM)
                    (EQ (CAR FORM)
'DECLARE))
                                                                          Got a real declaration. Record it, look for more.
              (CL:DOLIST (CL:DECLARATION (CDR FORM))
                   (NOTE-DECLARATION CL:DECLARATION)
(CL:PUSH CL:DECLARATION DECLARATIONS)
              (WALK-RECONS BODY FORM (WALK-DECLARATIONS (CDR BODY)
                                                  FN DOC-STRING-P DECLARATIONS)))
             ([AND (CL:CONSP FORM)
                    (NULL (GET-WALKER-TEMPLATE (CAR FORM)))
                    (NOT (EQ FORM (SETQ FORM (CL:MACROEXPAND-1 FORM *ENVIRONMENT*]
           (* * When we macroexpanded this form we got something else back.
           Maybe this is a macro which expanded into a declare? Recurse to find out.)
              (WALK-DECLARATIONS (CONS FORM (CDR BODY))
                      FN DOC-STRING-P DECLARATIONS))
            Now that we have walked and recorded the declarations, call the function our caller provided to expand the body.
           We call that function rather than passing the real-body back, because we are RECONSING up the new body.)
                 (CL:FUNCALL FN BODY])
(WALK-ARGLIST
  [CL:LAMBDA (ARGLIST CONTEXT &OPTIONAL DESTRUCTURINGP &AUX ARG) (* lmm "24-May-86 16:44")
          (COND
             ((NULL ARGLIST)
              NIL)
             [(CL:SYMBOLP (CL:SETQ ARG (CAR ARGLIST)))
              (OR (CL:MEMBER ARG CL:LAMBDA-LIST-KEYWORDS :TEST (FUNCTION EQ))
                   (NOTE-LEXICAL-BINDING ARG))
              (WALK-RECONS ARGLIST ARG (WALK-ARGLIST)
                                                    CONTEXT
                                                     (AND DESTRUCTURINGP (NOT (CL:MEMBER ARG CL:LAMBDA-LIST-KEYWORDS
                                                                                         :TEST (FUNCTION EQ]
             [(CL:CONSP ARG)
               (PROG1 (CL:IF DESTRUCTURINGP
                           (WALK-ARGLIST ARG CONTEXT DESTRUCTURINGP)
```

```
(WALK-RECONS ARGLIST (WALK-RELIST* ARG (CAR ARG)
                                                          (WALK-FORM-INTERNAL (CADR ARG)
                                                                 ':EVAL)
                                                          (CDDR ARG))
                                  (WALK-ARGLIST) (CDR ARGLIST)
                                         CONTEXT NIL)))
                       IF (CL:SYMBOLP (CAR ARG))
(NOTE-LEXICAL-BINDING (CAR ARG))
(NOTE-LEXICAL-BINDING (CADAR ARG)))
                  (CL:IF (CL:SYMBOLP
                      (NULL (CDDR ARG))
                            (CL:SYMBOLP
                                         (CADDR ARG)))
                       (NOTE-LEXICAL-BINDING ARG)))]
             (T (CL:ERROR "Can't understand something in the arglist ~S" ARGLIST])
(WALK-LAMBDA
  [CL:LAMBDA (FORM CONTEXT)
                                                                      (* lmm "24-May-86 16:44")
          (WITH-NEW-CONTOUR (LET* [(ARGLIST (CADR FORM))
                                       (BODY (CDDR FORM))
(WALKED-ARGLIST NIL)
                                       (WALKED-BODY (WALK-DECLARATIONS BODY (FUNCTION (CL:LAMBDA
                                                                                             (REAL-BODY)
                                                                                             (CL:SETQ WALKED-ARGLIST
                                                                                                     WALK-ARGLIST
                                                                                                            ARGLIST
                                                                                                            CONTEXT))
                                                                                             (WALK-TEMPLATE
                                                                                              REAL-BODY
                                                                                              '(:REPEAT (:EVAL))
                                                                                              CONTEXT]
                                      (WALK-RELIST* FORM (CAR FORM)
                                             WALKED-ARGLIST WALKED-BODY])
(PUTPROPS CL:COMPILER-LET WALKER-TEMPLATE WALK-COMPILER-LET)
(DEFINEQ
(WALK-COMPILER-LET
                                                                      (* gbn " 7-Aug-86 18:21")
  [CL:LAMBDA (FORM CONTEXT)
                                                                      ; bind the variables, but then return the COMPILER-LET
          (LET [(VARS (CL:MAPCAR [FUNCTION (LAMBDA (X)
                                                (CL:IF (CL:CONSP X)
                                                    (CAR X)
                                                    X)]
                              (CADR FORM)))
                (VALS (CL:MAPCAR (FUNCTION (CL:LAMBDA (X)
                                                     (CL:IF (CL:CONSP X)
                                                         (CL:EVAL (CADR X))
                                                         NIL)))
                              (CADR FORM]
               (CL:PROGV VARS VALS
                   (WALK-TEMPLATE FORM '(NIL NIL : REPEAT (: EVAL)
                                                 : RETURN)
                           CONTEXT))1)
)
(PUTPROPS DECLARE WALKER-TEMPLATE WALK-UNEXPECTED-DECLARE)
(DEFINEO
(WALK-UNEXPECTED-DECLARE
  (CL:LAMBDA (FORM CONTEXT)
(DECLARE (IGNORE CONTEXT))
                                                                      (* lmm "24-May-86 22:27")
          (CL:WARN "Encountered declare ~S in a place where a declare was not expected." FORM)
         FORM))
(PUTPROPS LET WALKER-TEMPLATE WALK-LET)
(PUTPROPS PROG WALKER-TEMPLATE WALK-LET)
(PUTPROPS LET* WALKER-TEMPLATE WALK-LET*)
(PUTPROPS PROG* WALKER-TEMPLATE WALK-LET*)
(DEFINEQ
(WALK-LET
             (FORM CONTEXT)
  (CL:LAMBDA
          (WALK-LET/LET* FORM CONTEXT NIL)))
(WALK-LET*
```

```
{MEDLEY} < sources > CMLWALK.; 1 (WALK-LET* cont.)
                                                                                                              Page 6
  (CL:LAMBDA (FORM CONTEXT)
  (WALK-LET/LET* FORM CONTEXT T)))
(WALK-LET/LET*
  [CL:LAMBDA
                                                                   (* lmm "24-May-86 16:44")
   (FORM CONTEXT SEQUENTIALP)
   (LET ((OLD-DECLARATIONS *DECLARATIONS*)
          (OLD-LEXICAL-VARIABLES *LEXICAL-VARIABLES*))
        (WITH-NEW-CONTOUR
         (LET* [(LET/LET* (CAR FORM))
                 (BINDINGS (CADR FORM))
                 (BODY (CDDR FORM))
                WALKED-BINDINGS
                 (WALKED-BODY (WALK-DECLARATIONS
                               BODY
                               (FUNCTION (CL:LAMBDA
                                           (REAL-BODY)
                                           [CL:SETQ WALKED-BINDINGS
                                                  (WALK-LIST BINDINGS
                                                         (FUNCTION (LAMBDA (BINDING)
                                                                      (CL:IF (CL:SYMBOLP BINDING)
                                                                          (PROG1 BINDING (NOTE-LEXICAL-BINDING
                                                                                          BINDING))
                                                                          (PROG1
                                                                              (LET ((*DECLARATIONS*
                                                                                           OLD-DECLARATIONS)
                                                                                    (*LEXICAL-VARIABLES*
                                                                                     (CL:IF SEQUENTIALP
                                                                                         *LEXICAL-VARIABLES*
                                                                                         OLD-LEXICAL-VARIABLES)))
                                                                                   (WALK-RELIST*
                                                                                    BINDING
                                                                                    (CAR BINDING)
(WALK-FORM-INTERNAL
                                                                                     (CADR BINDING)
                                                                                     CONTEXT)
                                                                                     CDDR BINDING)))
                                                                              (NOTE-LEXICAL-BINDING (CAR BINDING)))
)]
                                           (WALK-TEMPLATE REAL-BODY '(:REPEAT (:EVAL))
                                                  CONTEXT]
                (WALK-RELIST* FORM LET/LET* WALKED-BINDINGS WALKED-BODY])
(PUTPROPS CL:TAGBODY WALKER-TEMPLATE WALK-TAGBODY)
(DEFINEO
(WALK-TAGBODY
             (FORM CONTEXT)
                                                                   (* lmm "24-May-86 16:44")
  [CL:LAMBDA
         (WALK-RECONS FORM (CAR FORM)
                 (WALK-LIST (CDR FORM)
                        (FUNCTION (LAMBDA
                                    (WALK-FORM-INTERNAL X (CL:IF (CL:SYMBOLP X)
                                                                 OUOTE.
                                                                 CONTEXT) ])
(PUTPROPS FUNCTION WALKER-TEMPLATE (NIL :CALL))
(PUTPROPS CL:FUNCTION WALKER-TEMPLATE (NIL :CALL))
(PUTPROPS GO WALKER-TEMPLATE (NIL NIL))
(PUTPROPS CL:IF WALKER-TEMPLATE (NIL :TEST :RETURN :RETURN))
(PUTPROPS CL:MULTIPLE-VALUE-CALL WALKER-TEMPLATE (NIL :EVAL :REPEAT (:EVAL)))
(PUTPROPS CL:MULTIPLE-VALUE-PROG1 WALKER-TEMPLATE (NIL :RETURN :REPEAT (:EVAL)))
(PUTPROPS PROGN WALKER-TEMPLATE (NIL : REPEAT (: EVAL)))
(PUTPROPS CL:PROGV WALKER-TEMPLATE (NIL :EVAL :EVAL :REPEAT (:EVAL)))
(PUTPROPS QUOTE WALKER-TEMPLATE (NIL QUOTE))
(PUTPROPS CL:RETURN-FROM WALKER-TEMPLATE (NIL NIL :EVAL))
```

(PUTPROPS RETURN WALKER-TEMPLATE (NIL : EVAL))

(PUTPROPS CL:SETQ WALKER-TEMPLATE (NIL :REPEAT (:SET :EVAL)))

(PUTPROPS CL:BLOCK WALKER-TEMPLATE (NIL NIL :REPEAT (:EVAL)))

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(PUTPROPS CL:CATCH WALKER-TEMPLATE (NIL : EVAL : REPEAT (: EVAL)))
(PUTPROPS CL:EVAL-WHEN WALKER-TEMPLATE (NIL NIL :REPEAT (:EVAL)))
(PUTPROPS THE WALKER-TEMPLATE (NIL NIL :EVAL))
(PUTPROPS CL:THROW WALKER-TEMPLATE (NIL :EVAL :EVAL))
(PUTPROPS CL:UNWIND-PROTECT WALKER-TEMPLATE (NIL : EVAL : REPEAT (: EVAL)))
(PUTPROPS LOAD-TIME-EVAL WALKER-TEMPLATE (NIL :EVAL))
(PUTPROPS COND WALKER-TEMPLATE [NIL : REPEAT ((:REPEAT (:EVAL])
(PUTPROPS CL:UNWIND-PROTECT WALKER-TEMPLATE (NIL : EVAL : REPEAT (: EVAL)))
(PUTPROPS SETQ WALKER-TEMPLATE (NIL :SET :EVAL))
(PUTPROPS AND WALKER-TEMPLATE (NIL : REPEAT (:EVAL)))
(PUTPROPS OR WALKER-TEMPLATE (NIL : REPEAT (:EVAL)))
;; for Interlisp
(PUTPROPS RPAQ? WALKER-TEMPLATE (NIL :SET :EVAL))
(PUTPROPS RPAQ WALKER-TEMPLATE (NIL :SET :EVAL))
(PUTPROPS XNLSETQ WALKER-TEMPLATE (NIL : REPEAT (:EVAL)))
(PUTPROPS ERSETQ WALKER-TEMPLATE (NIL : REPEAT (:EVAL)))
(PUTPROPS NLSETQ WALKER-TEMPLATE (NIL : REPEAT (:EVAL)))
(PUTPROPS RESETVARS WALKER-TEMPLATE WALK-LET)
(PUTPROPS CMLWALK FILETYPE : COMPILE-FILE)
(DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS
(ADDTOVAR NLAMA )
(ADDTOVAR NLAML )
(ADDTOVAR LAMA WALK-TAGBODY WALK-LET/LET* WALK-LET* WALK-LET WALK-UNEXPECTED-DECLARE WALK-COMPILER-LET
                      WALK-LAMBDA WALK-ARGLIST WALK-DECLARATIONS WALK-RECONS WALK-TEMPLATE-HANDLE-REPEAT-1
                      WALK-TEMPLATE-HANDLE-REPEAT WALK-TEMPLATE WALK-FORM-INTERNAL)
(RPAQQ CMLWALKCOMS
       [ (FUNCTIONS XCL:ONCE-ONLY)
                                                                 ; not a wonderful place for it, but CMLMACROS comes too eraly
                                                                  ; in the loadup.
        (VARIABLES *WALK-FUNCTION* *WALK-FORM* *DECLARATIONS* *LEXICAL-VARIABLES* *ENVIRONMENT* *WALK-COPY*)
        (FUNCTIONS WITH-NEW-CONTOUR NOTE-LEXICAL-BINDING NOTE-DECLARATION)
        (FUNCTIONS VARIABLE-SPECIAL-P VARIABLE-LEXICAL-P GET-WALKER-TEMPLATE)
        (FUNCTIONS WALK-FORM)
        (FNS WALK-FORM-INTERNAL WALK-TEMPLATE WALK-TEMPLATE-HANDLE-REPEAT WALK-TEMPLATE-HANDLE-REPEAT-1
             WALK-LIST WALK-RECONS)
        (FUNCTIONS WALK-RELIST*)
        (FNS WALK-DECLARATIONS WALK-ARGLIST WALK-LAMBDA)
        (COMS (PROP WALKER-TEMPLATE CL:COMPILER-LET)
              (FNS WALK-COMPILER-LET)
              (PROP WALKER-TEMPLATE DECLARE)
              (FNS WALK-UNEXPECTED-DECLARE)
              (PROP WALKER-TEMPLATE LET PROG LET* PROG*)
              (FNS WALK-LET WALK-LET* WALK-LET/LET*)
              (PROP WALKER-TEMPLATE CL: TAGBODY)
              (FNS WALK-TAGRODY)
              (PROP WALKER-TEMPLATE FUNCTION CL:FUNCTION GO CL:IF CL:MULTIPLE-VALUE-CALL CL:MULTIPLE-VALUE-PROG1
                    PROGN CL:PROGV QUOTE CL:RETURN-FROM RETURN CL:SETQ CL:BLOCK CL:CATCH CL:EVAL-WHEN THE
                    CL:THROW CL:UNWIND-PROTECT LOAD-TIME-EVAL COND CL:UNWIND-PROTECT SETQ AND OR))
        (COMS);; for Interlisp
              (PROP WALKER-TEMPLATE RPAQ? RPAQ XNLSETQ ERSETQ NLSETQ RESETVARS))
        (PROP FILETYPE CMLWALK)
        (DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS
               (ADDVARS (NLAMA)
```

(LAMA WALK-TAGBODY WALK-LET/LET* WALK-LET* WALK-LET WALK-UNEXPECTED-DECLARE

WALK-TEMPLATE-HANDLE-REPEAT-1 WALK-TEMPLATE-HANDLE-REPEAT])

WALK-COMPILER-LET WALK-LAMBDA WALK-ARGLIST WALK-DECLARATIONS WALK-RECONS

(DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS

(NLAML)

(ADDTOVAR NLAMA)

(PUTPROPS CMLWALK COPYRIGHT ("Venue & Xerox Corporation" 1986 1987 1990))

{MEDLEY}<sources>CMLWALK.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:15:37 --

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