```
29-Aug-91 16:51:48 {DSK}<new>sources>lispcore>sources>CMLSEQMAPPERS.;2
 File created:
  changes to:
               (FUNCTIONS REDUCE-FROM-END REDUCE-FROM-START CL: REDUCE)
previous date:
              16-May-90 14:31:36 {DSK}<new>sources>lispcore>sources>CMLSEOMAPPERS.:1
 Read Table:
              INTERLISP
   Package:
              INTERLISP
      Format:
                XCCS
;; Copyright (c) 1986, 1987, 1990, 1991 by Venue & Xerox Corporation. All rights reserved.
(RPAQQ CMLSEQMAPPERSCOMS
       ((DECLARE%: EVAL@COMPILE DONTCOPY (FILES CMLSEQCOMMON))
        (FUNCTIONS %%FILL-SLICE %%MAP-FOR-EFFECT %%MAP-FOR-EFFECT-MULTIPLE %%MAP-FOR-EFFECT-SINGLE
                %%MAP-FOR-RESULT-MULTIPLE %%MAP-FOR-RESULT-SINGLE %%MIN-SEQUENCE-LENGTH CL:MAP)
        :: For compatibility with old optimizers
        (FUNCTIONS %%MAP-SINGLE-FOR-EFFECT %%MAP-SINGLE-TO-LIST %%MAP-SINGLE-TO-SIMPLE %%MAP-TO-LIST
                %%MAP-TO-SIMPLE)
        (OPTIMIZERS CL:MAP)
        (FUNCTIONS %%SOME-MULTIPLE %%SOME-SINGLE %%EVERY-MULTIPLE %%EVERY-SINGLE %%NOTANY-MULTIPLE
               %%NOTANY-SINGLE %%NOTEVERY-MULTIPLE %%NOTEVERY-SINGLE CL:SOME CL:EVERY CL:NOTANY CL:NOTEVERY)
        ;; For compatibility with old optimizers
        (P (MOVD '%%SOME-SINGLE '%%SINGLE-SOME)
(MOVD '%%EVERY-SINGLE '%%SINGLE-EVERY)
           (MOVD '%%NOTEVERY-SINGLE '%%SINGLE-NOTEVERY)
(MOVD '%%NOTANY-SINGLE '%%SINGLE-NOTANY))
        (OPTIMIZERS CL:SOME CL:EVERY CL:NOTANY CL:NOTEVERY)
        (FUNCTIONS REDUCE-FROM-END REDUCE-FROM-START CL:REDUCE)
        (PROP FILETYPE CMLSEQMAPPERS)
        (DECLARE%: DONTEVAL@LOAD DONTCOPY DOEVAL@COMPILE (LOCALVARS . T)))))
(DECLARE%: EVAL@COMPILE DONTCOPY
(FILESLOAD CMLSEQCOMMON)
(DEFMACRO %%FILL-SLICE (INDEX SLICE SEQUENCES)
   '(CL:DO ((%%SUBSLICE ,SLICE (CDR %%SUBSLICE))
             (%%SUBSEQ , SEQUENCES (CDR %%SUBSEQ))
            %%SEQUENCE)
            ((NULL %%SUBSEQ)
             .SLICE)
        (SETQ %%SEQUENCE (CAR %%SUBSEQ))
        [RPLACA %%SUBSLICE (SEQ-DISPATCH %%SEQUENCE (PROG1 (CAR %%SEQUENCE)
                                                           (RPLACA %%SUBSEO (CDR %%SEOUENCE)))
                                    (CL:AREF %%SEQUENCE ,INDEX]))
(CL:DEFUN %%MAP-FOR-EFFECT (FUNCTION SEQUENCE &REST MORE-SEQUENCES)
   (CL:IF
        (%%MAP-FOR-EFFECT-SINGLE FUNCTION SEQUENCE)
       (%%MAP-FOR-EFFECT-MULTIPLE FUNCTION (CONS SEQUENCE MORE-SEQUENCES))))
(CL:DEFUN %%MAP-FOR-EFFECT-MULTIPLE (FUNCTION SEQUENCES)
   [LET [(MIN-LENGTH (%%MIN-SEQUENCE-LENGTH SEQUENCES))
          (ELT-SLICE (CL:MAKE-LIST (CL:LENGTH SEQUENCES]
        (CL:DOTIMES (I MIN-LENGTH)
             (CL:APPLY FUNCTION (%%FILL-SLICE I ELT-SLICE SEQUENCES)))])
(CL:DEFUN %%MAP-FOR-EFFECT-SINGLE (FUNCTION SEQUENCE)
   [SEQ-DISPATCH SEQUENCE (CL:DOLIST (ELT SEQUENCE)
                               (CL:FUNCALL FUNCTION ELT))
           (CL:DOTIMES (I (VECTOR-LENGTH SEQUENCE))
               (CL:FUNCALL FUNCTION (CL:AREF SEQUENCE I)))])
(CL:DEFUN %%MAP-FOR-RESULT-MULTIPLE (RESULT-TYPE FUNCTION SEQUENCES)
   [LET* ((MIN-LENGTH (%%MIN-SEQUENCE-LENGTH SEQUENCES))
          (ELT-SLICE (CL:MAKE-LIST (CL:LENGTH SEQUENCES)))
           (RESULT (MAKE-SEQUENCE-OF-TYPE RESULT-TYPE MIN-LENGTH)))
         (SEQ-DISPATCH RESULT (CL:DO ((SUBRESULT RESULT (CDR SUBRESULT))
                                        (INDEX 0 (CL:1+ INDEX)))
                                       ((EQL INDEX MIN-LENGTH)
                                        RESULT)
                                    (RPLACA SUBRESULT (CL:APPLY FUNCTION (%%FILL-SLICE INDEX ELT-SLICE SEQUENCES))
                 (CL:DO ((INDEX 0 (CL:1+ INDEX)))
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((EQL INDEX MIN-LENGTH)
                           RESULT)
                      (CL:SETF (CL:AREF RESULT INDEX)
                              (CL:APPLY FUNCTION (%%FILL-SLICE INDEX ELT-SLICE SEQUENCES))))])
(CL:DEFUN %%MAP-FOR-RESULT-SINGLE (RESULT-TYPE FUNCTION SEQUENCE)
         ((LENGTH (CL:LENGTH SEQUENCE))
(RESULT (MAKE-SEQUENCE-OF-TYPE RESULT-TYPE LENGTH)))
          [SEQ-DISPATCH SEQUENCE [SEQ-DISPATCH RESULT (CL:DO ((SUBSEQ SEQUENCE (CDR SUBSEQ))
                                                                    (SUBRESULT RESULT (CDR SUBRESULT)))
                                                                   ((NULL SUBSEQ))
                                            (RPLACA SUBRESULT (CL:FUNCALL FUNCTION (CAR SUBSEQ)))) (CL:DO ((SUBSEQ SEQUENCE (CDR SUBSEQ))
                                                    (INDEX 0 (CL:1+ INDEX)))
                                                   ((NULL SUBSEQ))
                                                (CL:SETF (CL:AREF RESULT INDEX)
                                                        (CL:FUNCALL FUNCTION (CAR SUBSEQ))))]
                  (SEQ-DISPATCH RESULT (CL:DO ((INDEX 0 (CL:1+ INDEX))
                                                 (SUBRESULT RESULT (CDR SUBRESULT)))
((EQL INDEX LENGTH))
                                              (RPLACA SUBRESULT (CL:FUNCALL FUNCTION (CL:AREF SEQUENCE INDEX))))
                          (CL:DO ((INDEX 0 (CL:1+ INDEX)))
                              ((EQL INDEX LENGTH))
(CL:SETF (CL:AREF RESULT INDEX)
                                      (CL:FUNCALL FUNCTION (CL:AREF SEQUENCE INDEX))))]
          RESULT))
(DEFMACRO %%MIN-SEQUENCE-LENGTH (SEQUENCES)
   '(CL:DO ([MIN-LENGTH (CL:LENGTH (CAR , SEQUENCES]
             (SUBSEQ (CDR , SEQUENCES)
                     (CDR SUBSEQ))
             NEXT-LENGTH)
            ((NULL SUBSEQ)
             MIN-LENGTH)
         (SETQ NEXT-LENGTH (CL:LENGTH (CAR SUBSEQ)))
         (CL:IF (< NEXT-LENGTH MIN-LENGTH)
                 (SETQ MIN-LENGTH NEXT-LENGTH))))
(CL:DEFUN CL:MAP (RESULT-TYPE FUNCTION SEQUENCE & REST MORE-SEQUENCES)
   "FUNCTION must take as many arguments as there are sequences provided. The result is a seque element i is the result of applying FUNCTION to element i of each of the argument sequences.
                                                                                   The result is a sequence such that
   (CL:IF (NULL RESULT-TYPE)
        (CL: IF (NULL MORE-SEQUENCES)
            (%%MAP-FOR-EFFECT-SINGLE FUNCTION SEQUENCE)
(%%MAP-FOR-EFFECT-MULTIPLE FUNCTION (CONS SEQUENCE MORE-SEQUENCES)))
            (%%MAP-FOR-RESULT-SINGLE RESULT-TYPE FUNCTION SEQUENCE)
            (%%MAP-FOR-RESULT-MULTIPLE RESULT-TYPE FUNCTION (CONS SEQUENCE MORE-SEQUENCES)))))
;; For compatibility with old optimizers
(CL:DEFUN %%MAP-SINGLE-FOR-EFFECT (FUNCTION SEQUENCE)
   (%%MAP-FOR-EFFECT-SINGLE FUNCTION SEQUENCE))
(CL:DEFUN %%MAP-SINGLE-TO-LIST (FUNCTION SEQUENCE)
   (%%MAP-FOR-RESULT-SINGLE 'LIST FUNCTION SEQUENCE))
(CL:DEFUN %%MAP-SINGLE-TO-SIMPLE (RESULT-TYPE FUNCTION SEQUENCE)
   (%%MAP-FOR-RESULT-SINGLE RESULT-TYPE FUNCTION SEQUENCE))
(CL:DEFUN %%MAP-TO-LIST (FUNCTION SEQUENCE & REST MORE-SEQUENCES)
          (NULL MORE-SEQUENCES
   (CL:IF
        (%%MAP-FOR-RESULT-SINGLE 'LIST FUNCTION SEQUENCE)
        (%%MAP-FOR-RESULT-MULTIPLE 'LIST FUNCTION (CONS SEQUENCE MORE-SEQUENCES))))
(CL:DEFUN %%MAP-TO-SIMPLE (RESULT-TYPE FUNCTION SEQUENCE &REST MORE-SEQUENCES)
   (CL:IF (NULL MORE-SEQUENCES
        (%%MAP-FOR-RESULT-SINGLE RESULT-TYPE FUNCTION SEQUENCE)
        (%%MAP-FOR-RESULT-MULTIPLE RESULT-TYPE FUNCTION (CONS SEQUENCE MORE-SEQUENCES))))
(DEFOPTIMIZER CL:MAP (RESULT-TYPE FUNCTION FIRST-SEQUNCE &REST MORE-SEQUENCES)
                          (CL:IF (AND (NULL MORE-SEQUENCES)
                                       (CL:CONSTANTP RESULT-TYPE))
                              (CL:IF (NULL (EVAL RESULT-TYPE))
'(%%MAP-FOR-EFFECT-SINGLE ,FUNCTION ,FIRST-SEQUNCE)
'(%%MAP-FOR-RESULT-SINGLE ,RESULT-TYPE ,FUNCTION ,FIRST-SEQUNCE))
                              'COMPILER: PASS))
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(CL:DEFUN %%SOME-MULTIPLE (PREDICATE SEQUENCES)
   [LET [(MIN-LENGTH (%%MIN-SEQUENCE-LENGTH SEQUENCES))
          (ELT-SLICE (CL:MAKE-LIST (CL:LENGTH SEQUENCES]
        (CL:DO ((INDEX 0 (CL:1+ INDEX))
                 PREDICATE-RESULT)
                ((EQL INDEX MIN-LENGTH))
             (SETQ PREDICATE-RESULT (CL:APPLY PREDICATE (%%FILL-SLICE INDEX ELT-SLICE SEQUENCES))) (CL:IF PREDICATE-RESULT (RETURN PREDICATE-RESULT)))])
(CL:DEFUN %%SOME-SINGLE (PREDICATE SEQUENCE)
   [LET ((LENGTH (CL:LENGTH SEQUENCE)))
        (SEQ-DISPATCH SEQUENCE (FORWARD-LIST-LOOP SEQUENCE 0 LENGTH (INDEX CURRENT PREDICATE-RESULT)
                                          NIL
                                          (SETQ PREDICATE-RESULT (CL:FUNCALL PREDICATE CURRENT))
(CL:IF PREDICATE-RESULT (RETURN PREDICATE-RESULT)))
                (FORWARD-VECTOR-LOOP SEQUENCE 0 LENGTH (INDEX CURRENT PREDICATE-RESULT)
                        NIL
                        (SETQ PREDICATE-RESULT (CL:FUNCALL PREDICATE CURRENT))
(CL:IF PREDICATE-RESULT (RETURN PREDICATE-RESULT])
(CL:DEFUN %%EVERY-MULTIPLE (PREDICATE SEQUENCES)
[LET [(MIN-LENGTH (%%MIN-SEQUENCE-LENGTH SEQUENCES))
          (ELT-SLICE (CL:MAKE-LIST (CL:LENGTH SEQUENCES)
        (CL:DOTIMES (INDEX MIN-LENGTH T)
             (CL:IF (NULL (CL:APPLY PREDICATE (%%FILL-SLICE INDEX ELT-SLICE SEQUENCES)))
                     (RETURN NIL)))])
(CL:DEFUN %%EVERY-SINGLE (PREDICATE FIRST-SEQUENCE)
   [SEQ-DISPATCH FIRST-SEQUENCE (CL:DOLIST (ELT FIRST-SEQUENCE T)
                                        (CL:IF (NULL (CL:FUNCALL PREDICATE ELT))
                                                (RETURN NIL)))
           (CL:DOTIMES (INDEX (VECTOR-LENGTH FIRST-SEQUENCE)
               (CL:IF (NULL (CL:FUNCALL PREDICATE (CL:AREF FIRST-SEQUENCE INDEX)))
                       (RETURN NIL)))])
(CL:DEFUN %%NOTANY-MULTIPLE (PREDICATE SEQUENCES)
   [LET [(MIN-LENGTH (%%MIN-SEQUENCE-LENGTH SEQUENCES))
          (ELT-SLICE (CL:MAKE-LIST (CL:LENGTH SEQUENCES]
        (CL:DOTIMES (INDEX MIN-LENGTH T)
             (CL:IF (CL:APPLY PREDICATE (%%FILL-SLICE INDEX ELT-SLICE SEQUENCES))
                     (RETURN NIL)))])
(CL:DEFUN %%NOTANY-SINGLE (PREDICATE FIRST-SEQUENCE)
[SEQ-DISPATCH FIRST-SEQUENCE (CL:DOLIST (ELT FIRST-SEQUENCE T)
                                        (CL:IF (CL:FUNCALL PREDICATE ELT)
                                                (RETURN NIL)))
           (CL:DOTIMES (I (VECTOR-LENGTH FIRST-SEQUENCE)
                           T)
               (CL:IF (CL:FUNCALL PREDICATE (CL:AREF FIRST-SEQUENCE I))
                       (RETURN NIL)))))
(CL:DEFUN %%NOTEVERY-MULTIPLE (PREDICATE SEQUENCES)
   [LET [(MIN-LENGTH (%%MIN-SEQUENCE-LENGTH SEQUENCES))
          (ELT-SLICE (CL:MAKE-LIST (CL:LENGTH SEQUENCES]
        (CL:DOTIMES (INDEX MIN-LENGTH)
             (CL:IF (NULL (CL:APPLY PREDICATE (%%FILL-SLICE INDEX ELT-SLICE SEQUENCES)))
                     (RETURN T)))])
(CL:DEFUN %%NOTEVERY-SINGLE (PREDICATE FIRST-SEQUENCE)
   [SEQ-DISPATCH FIRST-SEQUENCE (CL:DOLIST (ELT FIRST-SEQUENCE)
                                        (CL:IF (NULL (CL:FUNCALL PREDICATE ELT))
                                                (RETURN T)))
           (CL:DOTIMES (I (VECTOR-LENGTH FIRST-SEQUENCE))
               (CL:IF (NULL (CL:FUNCALL PREDICATE (CL:AREF FIRST-SEQUENCE I)))
                       (RETURN T)))])
(CL:DEFUN CL:SOME (PREDICATE FIRST-SEQUENCE &REST MORE-SEQUENCES)
   "PREDICATE is applied to the elements with index 0 of the sequences, then possibly to those with index 1, and
           SOME returns the first non-() value encountered, or () if the end of a sequence is reached.
   so on.
           (NULL MORE-SEQUENCES)
       (%%SOME-SINGLE PREDICATE FIRST-SEQUENCE)
        (%%SOME-MULTIPLE PREDICATE (CONS FIRST-SEQUENCE MORE-SEQUENCES))))
(CL:DEFUN CL:EVERY (PREDICATE FIRST-SEQUENCE &REST MORE-SEQUENCES)
  "PREDICATE is applied to the elements with index 0 of the sequences, then possibly to those with index 1, and so on. EVERY returns () as soon as any invocation of PREDICATE returns (), or T if every invocation is
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{MEDLEY} < CLTL2 > CMLSEQMAPPERS.; 1 (CL:EVERY cont.)
                                                                                                             Page 4
  non-()."
(CL:IF (NULL MORE-SEQUENCES)
       (%%EVERY-SINGLE PREDICATE FIRST-SEQUENCE)
       (%%EVERY-MULTIPLE PREDICATE (CONS FIRST-SEQUENCE MORE-SEQUENCES))))
(CL:DEFUN CL:NOTANY (PREDICATE FIRST-SEQUENCE &REST MORE-SEQUENCES)
   "PREDICATE is applied to the elements with index 0 of the sequences, then possibly to those with index 1, and
   so on. NOTANY returns () as soon as any invocation of PREDICATE returns a non-() value, or T if the end of a
   sequence is reached."
   (CL:IF (NULL MORE-SEQUENCES)
       (%%NOTANY-SINGLE PREDICATE FIRST-SEQUENCE)
       (%%NOTANY-MULTIPLE PREDICATE (CONS FIRST-SEQUENCE MORE-SEQUENCES))))
(CL:DEFUN CL:NOTEVERY (PREDICATE FIRST-SEQUENCE &REST MORE-SEQUENCES)
   PREDICATE is applied to the elements with index 0 of the sequences, then possibly to those with index 1, and
  so on. NOTEVERY returns T as soon as any invocation of PREDICATE returns (), or () if every invocation is
  non-()."
   (CL:IF (NULL MORE-SEQUENCES)
       (%%NOTEVERY-SINGLE PREDICATE FIRST-SEQUENCE)
       (%%NOTEVERY-MULTIPLE PREDICATE (CONS FIRST-SEQUENCE MORE-SEQUENCES))))
;; For compatibility with old optimizers
(MOVD '%%SOME-SINGLE '%%SINGLE-SOME)
(MOVD '%%EVERY-SINGLE '%%SINGLE-EVERY)
(MOVD '%%NOTEVERY-SINGLE '%%SINGLE-NOTEVERY)
(MOVD '%%NOTANY-SINGLE '%%SINGLE-NOTANY)
(DEFOPTIMIZER CL:SOME (PREDICATE SEQUENCE &REST MORE-SEQUENCES)
                         (COND
                            [(NULL MORE-SEQUENCES)
                             (%%SOME-SINGLE , PREDICATE , SEQUENCE]
                            (T 'COMPILER:PASS)))
(DEFOPTIMIZER CL:EVERY (PREDICATE SEQUENCE &REST MORE-SEQUENCES)
                          (COND
                             [ (NULL MORE-SEQUENCES)
                               (%%EVERY-SINGLE , PREDICATE , SEQUENCE]
                             (T 'COMPILER:PASS)))
(DEFOPTIMIZER CL:NOTANY (PREDICATE SEQUENCE &REST MORE-SEQUENCES)
                            (COND
                               [(NULL MORE-SEQUENCES)
`(%%NOTANY-SINGLE , PREDICATE , SEQUENCE]
                               (T 'COMPILER:PASS)))
(DEFOPTIMIZER CL:NOTEVERY (PREDICATE SEQUENCE &REST MORE-SEQUENCES)
                               (COND
                                 [ (NULL MORE-SEQUENCES)
                                   `(%%NOTEVERY-SINGLÉ , PREDICATE , SEQUENCE]
                                 (T 'COMPILER: PASS)))
(CL:DEFUN REDUCE-FROM-END (FUNCTION SEQUENCE START END INITIAL-VALUE &OPTIONAL KEY)
   "Backward reduction'
   (CL:IF KEY
       [SEQ-DISPATCH SEQUENCE (BACKWARD-LIST-LOOP SEQUENCE START END (INDEX CURRENT (ACCUMULATOR INITIAL-VALUE))
                                     ACCUMULATOR
                                     (SETQ ACCUMULATOR (CL:FUNCALL FUNCTION (CL:FUNCALL KEY CURRENT)
                                                               ACCUMULATOR)))
              (BACKWARD-VECTOR-LOOP SEQUENCE START END (INDEX CURRENT (ACCUMULATOR INITIAL-VALUE))
                     ACCUMULATOR
                     (SETQ ACCUMULATOR (CL:FUNCALL FUNCTION (CL:FUNCALL KEY CURRENT)
                                              ACCUMULATOR]
       [SEQ-DISPATCH SEQUENCE (BACKWARD-LIST-LOOP SEQUENCE START END (INDEX CURRENT (ACCUMULATOR INITIAL-VALUE))
                                     ACCUMULATOR
                                     (SETQ ACCUMULATOR (CL:FUNCALL FUNCTION CURRENT ACCUMULATOR)))
              (BACKWARD-VECTOR-LOOP SEQUENCE START END (INDEX CURRENT (ACCUMULATOR INITIAL-VALUE))
                     ACCUMULATOR
                     (SETQ ACCUMULATOR (CL:FUNCALL FUNCTION CURRENT ACCUMULATOR]))
(CL:DEFUN REDUCE-FROM-START (FUNCTION SEQUENCE START END INITIAL-VALUE &OPTIONAL KEY)
```

[SEQ-DISPATCH SEQUENCE [FORWARD-LIST-LOOP SEQUENCE START END (INDEX CURRENT (ACCUMULATOR INITIAL-VALUE))

(FORWARD-VECTOR-LOOP SEQUENCE START END (INDEX CURRENT (ACCUMULATOR INITIAL-VALUE))

(SETQ ACCUMULATOR (CL:FUNCALL FUNCTION ACCUMULATOR (CL:FUNCALL KEY CURRENT]

ACCUMULATOR

(CL:IF KEY

```
ACCUMULATOR
                      (SETQ ACCUMULATOR (CL:FUNCALL FUNCTION ACCUMULATOR (CL:FUNCALL KEY CURRENT]
       [SEQ-DISPATCH SEQUENCE (FORWARD-LIST-LOOP SEQUENCE START END (INDEX CURRENT (ACCUMULATOR INITIAL-VALUE))
                                      ACCUMULATOR
                                       (SETQ ACCUMULATOR (CL:FUNCALL FUNCTION ACCUMULATOR CURRENT)))
              (FORWARD-VECTOR-LOOP SEQUENCE START END (INDEX CURRENT (ACCUMULATOR INITIAL-VALUE))
                     ACCUMULATOR
                      (SETQ ACCUMULATOR (CL:FUNCALL FUNCTION ACCUMULATOR CURRENT]))
(CL:DEFUN CL:REDUCE (FUNCTION SEQUENCE &KEY (START 0)
                         END FROM-END (INITIAL-VALUE NIL INITIAL-VALUE-P)
                         (KEY 'CL:IDENTITY KEY-P))
   [LET ((LENGTH (CL:LENGTH SEQUENCE)))
        (CL:IF (NULL END)
               (SETO END LENGTH))
        (CHECK-SUBSEQ SEQUENCE START END LENGTH)
        (CL:IF INITIAL-VALUE-P
            (CL:IF FROM-END
                 (REDUCE-FROM-END FUNCTION SEQUENCE START END INITIAL-VALUE (AND KEY-P KEY))
                (REDUCE-FROM-START FUNCTION SEQUENCE START END INITIAL-VALUE (AND KEY-P KEY)))
            (CASE (- END START)
     (0 (CL:FUNCALL FUNCTION))
                (1 (CL:FUNCALL KEY (CL:ELT SEQUENCE START)))
                (T (CL:IF_FROM-END
                        (REDUCE-FROM-END FUNCTION SEQUENCE START (CL:1- END)
(CL:FUNCALL KEY (CL:ELT SEQUENCE (CL:1- END)))
                                (AND KEY-P KEY))
                        (REDUCE-FROM-START FUNCTION SEQUENCE (CL:1+ START)
                               END
                               (CL:FUNCALL KEY (CL:ELT SEQUENCE START))
                                (AND KEY-P KEY))))))))
(PUTPROPS CMLSEQMAPPERS FILETYPE CL:COMPILE-FILE)
(DECLARE%: DONTEVAL@LOAD DONTCOPY DOEVAL@COMPILE
(DECLARE%: DOEVAL@COMPILE DONTCOPY
(LOCALVARS . T)
(PUTPROPS CMLSEQMAPPERS COPYRIGHT ("Venue & Xerox Corporation" 1986 1987 1990 1991))
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{MEDLEY}<CLTL2>CMLSEQMAPPERS.;1 28-Jun-2024 18:34:02 -- Listed on 30-Jun-2024 13:12:08 --

FUNCTION INDEX		
%*EVERY-MULTIPLE 3 %*EVERY-SINGLE 3 %*MAP-FOR-EFFECT 1 %*MAP-FOR-EFFECT-MULTIPLE 1 %*MAP-FOR-EFFECT-SINGLE 1 %*MAP-FOR-RESULT-MULTIPLE 1 %*MAP-FOR-RESULT-SINGLE 2 %*MAP-SINGLE-FOR-EFFECT 2 %*MAP-SINGLE-TO-LIST 2	% & MAP - SINGLE - TO - SIMPLE 2 % & MAP - TO - LIST 2 % & MAP - TO - SIMPLE 2 % & NOTANY - MULTIPLE 3 % & NOTEVERY - MULTIPLE 3 % & NOTEVERY - SINGLE 3 % & SOME - MULTIPLE 3 % & SOME - SINGLE 3	CL:EVERY 3 CL:MAP 2 CL:NOTANY 4 CL:NOTEVERY 4 CL:REDUCE 5 REDUCE-FROM-END 4 REDUCE-FROM-START 4 CL:SOME 3
CL:EVERY4 CL:MAP2 CL:NOTANY4 CL:NOTEVERY4 CL:SOME4		
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%%FILL-SLICE		
PROPERTY INDEX		

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