```
20-Aug-2021 20:44:50 {DSK}<Users>kaplan>Local>medley3.5>git-medley>sources>CMLSTRING.;2
 File created:
previous date:
               16-May-90 14:45:59 {DSK}<Users>kaplan>Local>medley3.5>git-medley>sources>CMLSTRING.;1
 Read Table:
               INTERLISP
    Package:
               INTERLISP
       Format:
                 XCCS
;; Copyright (c) 1985-1987, 1990, 2021 by Venue & Xerox Corporation.
(RPAQQ CMLSTRINGCOMS
        (;; run-time support
         (FUNCTIONS CL::SIMPLE-STRING= CL::SIMPLE-STRING-EQUAL)
         (FUNCTIONS %%STRING-BASE-COMPARE %%STRING-BASE-COMPARE-EQUAL %%STRING-UPCASE %%STRING-DOWNCASE)
        ;; User entry points
         (FUNCTIONS CL:MAKE-STRING CL:NSTRING-CAPITALIZE CL:NSTRING-DOWNCASE CL:NSTRING-UPCASE STRING
                 CL:STRING-CAPITALIZE CL:STRING-DOWNCASE STRING-EQUAL CL:STRING-GREATERP CL:STRING-LEFT-TRIM
                CL:STRING-LESSP CL:STRING-NOT-EQUAL CL:STRING-NOT-GREATERP CL:STRING-NOT-LESSP CL:STRING-RIGHT-TRIM CL:STRING-TRIM CL:STRING-UPCASE CL:STRING/= CL:STRING< CL:STRING<
                 CL:STRING= CL:STRING> CL:STRING>=)
         (OPTIMIZERS CL:STRING= STRING-EQUAL)
        ;; Internal macros
         (DECLARE%: DONTCOPY DOEVAL@COMPILE (FUNCTIONS WITH-ONE-STRING WITH-ONE-STRING-ONLY WITH-STRING
                                                        WITH-TWO-UNPACKED-STRINGS %%UNPACK-STRING %%ADJUST-FOR-OFFSET
                                                        %%CHECK-BOUNDS %%PARSE-STRING-ARGS %%STRING-LENGTH))
        ;; Compiler options
         (PROP FILETYPE CMLSTRING)
         (DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY (LOCALVARS . T)))))
:: run-time support
(CL:DEFUN CL::SIMPLE-STRING= (STRING1 STRING2) [LET ((END1 (%%STRING-LENGTH STRING1)) (END2 (%%STRING-LENGTH STRING2)))
         (CL:IF (EQ END1 END2)
             (LET (BASE1 BASE2 OFFSET1 OFFSET2 TYPENUMBER1 TYPENUMBER2)
                   (%%UNPACK-STRING STRING1 BASE1 OFFSET1 TYPENUMBER1)
                   (%%UNPACK-STRING STRING2 BASE2 OFFSET2 TYPENUMBER2)
                   (CL:IF (NOT (EQ 0 OFFSET1))
                        (SETQ END1 (+ END1 OFFSET1)))
                   (CL:IF (NOT (EQ 0 OFFSET2))
(SETQ END2 (+ END2 OFFSET2))
                        (SETQ END2
                   (EQ END1 (%%STRING-BASE-COMPARE BASE1 TYPENUMBER1 BASE2 TYPENUMBER2 OFFSET1 END1 OFFSET2
                                     END2)))))))
(CL:DEFUN CL::SIMPLE-STRING-EQUAL (STRING1 STRING2) [LET ((END1 (%%STRING-LENGTH STRING1))
          (END2 (%%STRING-LENGTH STRING2)))
         (CL:IF
                (EQ END1 END2)
                          BASE2 OFFSET1 OFFSET2 TYPENUMBER1 TYPENUMBER2)
                   (%%UNPACK-STRING STRING1 BASE1 OFFSET1 TYPENUMBER1)
                   (%%UNPACK-STRING STRING2 BASE2 OFFSET2 TYPENUMBER2)
                   (CL:IF (NOT (EQ 0 OFFSET1))
                       (SETQ END1 (+ END1 OFFSET1)))
                   (CL:IF (NOT (EQ 0 OFFSET2))
(SETQ END2 (+ END2 OFFSET2))
                       (SETQ END2
                   (EO END1 (%%STRING-BASE-COMPARE-EQUAL BASE1 TYPENUMBER1 BASE2 TYPENUMBER2 OFFSET1 END1
                                     OFFSET2 END2))))))
(CL:DEFUN %%STRING-BASE-COMPARE (BASE1 TYPENUMBER1 BASE2 TYPENUMBER2 START1 END1 START2 END2)
   :: Return index into base1 of first inequality
   ;; Can use eq for character comparisons because they are immediate datatypes. Can use eq for numeric equality since Indices are always in the ;; fixnum range
   (CL:IF (EQ START1 START2)
        (CL:DO ((INDEX START1 (CL:1+ INDEX))
                 (ENDINDEX (MIN END1 END2)))
               ([OR (EQ INDEX ENDINDEX)
                     (NOT (EQ (%%ARRAY-READ BASE1 TYPENUMBER1 INDEX)
                               (%%ARRAY-READ BASE2 TYPENUMBER2 INDEX]
                INDEX))
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([OR (EQ INDEX1 ENDINDEX)

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{MEDLEY}<sources>CMLSTRING.;1 (%%STRING-BASE-COMPARE cont.)
                    (NOT (EQ (%%ARRAY-READ BASE1 TYPENUMBER1 INDEX1)
                              (%%ARRAY-READ BASE2 TYPENUMBER2 INDEX2]
                INDEX1))))
(CL:DEFUN %%STRING-BASE-COMPARE-EQUAL (BASE1 TYPENUMBER1 BASE2 TYPENUMBER2 START1 END1 START2 END2)
   :: Return index into base1 of first case insensitive inequality
   ;; Can use eq for character comparisons because they are immediate datatypes.
   ;; Char-upcase has been expanded out and simplified below.
   (CL:IF (EQ START1 START2)
       (CL:DO ((INDEX START1 (CL:1+ INDEX))
                (ENDINDEX (MIN END1 END2)))
               ([OR (EQ INDEX ENDINDEX)
                    INDEX))
       (CL:DO [(INDEX1 START1 (CL:1+ INDEX1))
                (INDEX2 START2 (CL:1+ INDEX2))
                (ENDINDEX (MIN END1 (+ START1 (- END2 START2]
               ([OR (EQ INDEX1 ENDINDEX)
                    (NOT (EQ (%%CHAR-UPCASE-CODE (\LOLOC (%%ARRAY-READ BASE1 TYPENUMBER1 INDEX1)))
                              (%%CHAR-UPCASE-CODE (\LOLOC (%%ARRAY-READ BASE2 TYPENUMBER2 INDEX2)
                INDEX1))))
(CL:DEFUN %%STRING-UPCASE (STRING START END)
   .; Assumes string is a string. Start and end define a subsequence. Destructively upcases string and returns it
   (LET ((BASE (%%ARRAY-BASE STRING))
         (OFFSET (%%ARRAY-OFFSET STRING))
          (TYPENUMBER (%%ARRAY-TYPE-NUMBER STRING)))
         (%%ADJUST-FOR-OFFSET START END OFFSET)
               ((INDEX START (CL:1+ INDEX)))
                ((EQ INDEX END)
                 STRING)
             (%%ARRAY-WRITE (CL:CHAR-UPCASE (%%ARRAY-READ BASE TYPENUMBER INDEX))
                    BASE TYPENUMBER INDEX))))
(CL:DEFUN %%STRING-DOWNCASE (STRING START END)
   ;; Assumes string is a string. Start and end define a subsequence. Destructively downcases string and returns it
   (LET ((BASE (%%ARRAY-BASE STRING))
         (OFFSET (%%ARRAY-OFFSET STRING))
(TYPENUMBER (%%ARRAY-TYPE-NUMBER STRING)))
        (%%ADJUST-FOR-OFFSET START END OFFSET)
        (CL:DO ((INDEX START (CL:1+ INDEX)))
                ((EQ INDEX END)
                STRING)
             (%%ARRAY-WRITE (CL:CHAR-DOWNCASE (%%ARRAY-READ BASE TYPENUMBER INDEX))
                    BASE TYPENUMBER INDEX))))
;; User entry points
(CL:DEFUN CL:MAKE-STRING (SIZE &KEY (INITIAL-ELEMENT NIL INITIAL-ELEMENT-P)
                                     FATP)
   "Makes a simple string"
   (LET ((STRING (MAKE-VECTOR SIZE : ELEMENT-TYPE 'CL:STRING-CHAR : FATP FATP)))
        (CL:IF INITIAL-ELEMENT-P (FILL-ARRAY STRING INITIAL-ELEMENT))
        STRING))
(CL:DEFUN CL:NSTRING-CAPITALIZE (STRING &KEY START END)
   "Given a string, returns it with the first letter of every word in uppercase and all other letters in
   lowercase. A word is defined to be a sequence of alphanumeric characters delimited by non-alphanumeric
   [WITH-ONE-STRING-ONLY STRING START END (CL:DO ((INDEX START (CL:1+ INDEX))
                                                      (ALPHA-P NIL)
                                                      (WAS-ALPHA-P NIL ALPHA-P)
                                                     CHAR)
                                                     ((EQ INDEX END)
                                                     STRING)
                                                 (SETQ CHAR (CL:CHAR STRING INDEX))
                                                 (SETQ ALPHA-P (CL:ALPHANUMERICP CHAR))
                                                 (CL:SETF (CL:CHAR STRING INDEX)
                                                         (CL:IF (AND ALPHA-P (NOT WAS-ALPHA-P))
                                                             (CL:CHAR-UPCASE CHAR)
                                                             (CL:CHAR-DOWNCASE CHAR))))])
(CL:DEFUN CL:NSTRING-DOWNCASE (STRING &KEY START END)
   "Given a string, returns that string with all uppercase alphabetic characters converted to lowercase." (WITH-ONE-STRING-ONLY STRING START END (%%STRING-DOWNCASE STRING START END)))
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(CL:DEFUN CL:NSTRING-UPCASE (STRING &KEY START END)
     "Given a string, returns that string with all lower case alphabetic characters converted to uppercase."
     (WITH-ONE-STRING-ONLY STRING START END (%%STRING-UPCASE STRING START END)))
(CL:DEFUN STRING (X)
     "Coerces X into a string. If X is a string, X is returned. If X is a symbol, X's pname is returned. If X is a
     character then a one element string containing that character is returned. If X cannot be coerced into a
     string, an error occurs."
     (CL:TYPECASE X
            (STRING X)
            (CL:SYMBOL (CL:SYMBOL-NAME X))
            (CL:CHARACTER (CL:MAKE-STRING 1 :INITIAL-ELEMENT X))
(CL:OTHERWISE (CL:ERROR "~S cannot be coerced into a string" X))))
(CL:DEFUN CL:STRING-CAPITALIZE (STRING &KEY START END)
    "Given a string, returns a new string that is a copy of it with the first letter of every word in uppercase and all other letters in lowercase. A word is defined to be a sequence of alphanumeric characters delimited
    by non-alphanumeric characters"
     (WITH-ONE-STRING STRING START END (LET ((NEW-STRING (CL:MAKE-STRING SLEN)))
(CL:DOTIMES (INDEX START)
(CL:SETF (CL:SCHAR NEW-STRING INDEX)
                                                                                                 (CL:CHAR STRING INDEX)))
                                                                             (CL:DO ((INDEX START (CL:1+ INDEX))
                                                                                            (ALPHA-P NIL)
                                                                                            (WAS-ALPHA-P NIL ALPHA-P)
                                                                                           CHAR)
                                                                                          ((EQ INDEX END))
                                                                                     (SETQ CHAR (CL:CHAR STRING INDEX))
                                                                                     (SETQ ALPHA-P (CL:ALPHANUMERICP CHAR))
                                                                                     (CL:SETF (CL:SCHAR NEW-STRING INDEX)
                                                                                                 (CL:IF (AND ALPHA-P (NOT WAS-ALPHA-P))
(CL:CHAR-UPCASE CHAR)
                                                                                                        (CL:CHAR-DOWNCASE CHAR))))
                                                                             (CL:DO ((INDEX END (CL:1+ INDEX)))
                                                                                          ((EQ INDEX SLEN))
                                                                                     (CL:SETF (CL:SCHAR NEW-STRING INDEX)
                                                                                                 (CL:CHAR STRING INDEX)))
                                                                             NEW-STRING)))
(CL:DEFUN CL:STRING-DOWNCASE (STRING &KEY START END)
     "Given a string, returns a new string that is a copy of it with all uppercase case alphabetic characters
     converted to lowercase."
     (WITH-ONE-STRING STRING START END (%%STRING-DOWNCASE (COPY-VECTOR STRING (CL:MAKE-STRING SLEN))
                                                                                START END)))
(CL:DEFUN STRING-EQUAL (STRING1 STRING2 &KEY START1 END1 START2 END2)
     "Compare two strings for case insensitive equality"
(CL:IF (OR START1 END1 START2 END2)
     (CL: TF
            [%%PARSE-STRING-ARGS STRING1 STRING2 START1 END1 START2 END2
                         (CL: IF
                                     (EO SLEN1
                                                      SLEN2
                                 (WITH-TWO-UNPACKED-STRINGS STRING1 STRING2 START1 END1 START2 END2
                                             (EQ END1 (%%STRING-BASE-COMPARE-EQUAL BASE1 TYPENUMBER1 BASE2 TYPENUMBER2 START1
                                                                          END1 START2 END2))))]
             (CL::SIMPLE-STRING-EQUAL STRING1 STRING2)))
(CL:DEFUN CL:STRING-GREATERP (STRING1 STRING2 &KEY START1 END1 START2 END2)
     "Case insensitive version of STRINGS STRING 
                                                                   START2 END2))
                                            (REL-INDEX (- INDEX START1)))
                                          (COND
                                               ((EQ REL-INDEX SLEN2)
                                                (CL:IF (> SLEN1 SLEN2)
(- INDEX OFFSET1)))
                                               ((EQ INDEX END1)
                                                NIL)
                                               ((CL:CHAR-GREATERP (%%ARRAY-READ BASE1 TYPENUMBER1 INDEX)
                                                              (%%ARRAY-READ BASE2 TYPENUMBER2 (+ START2 REL-INDEX)))
                                                 (- INDEX OFFSET1])
(CL:DEFUN CL:STRING-LEFT-TRIM (CHAR-BAG STRING)
     "Trim only on left"
     (WITH-STRING STRING (LET [(LEFT-END (CL:DO ((INDEX 0 (CL:1+ INDEX)))
                                                                                    ((OR (EQ INDEX SLEN)
                                                                                             (NOT (CL:FIND (CL:CHAR STRING INDEX)
                                                                                                                  CHAR-BAG)))
                                                                                     TNDEX))1
                                                   (CL:SUBSEQ STRING LEFT-END SLEN))))
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(CL:DEFUN CL:STRING-LESSP (STRING1 STRING2 &KEY START1 END1 START2 END2)
   "Case insensitive version of STRING<"
[%%PARSE-STRING-ARGS STRING1 STRING2 START1 END1 START2 END2
           (WITH-TWO-UNPACKED-STRINGS STRING1 STRING2 START1 END1 START2 END2
                   (LET* ((INDEX (%%STRING-BASE-COMPARE-EQUAL BASE1 TYPENUMBER1 BASE2 TYPENUMBER2 START1 END1
                                           START2 END2))
                           (REL-INDEX (- INDEX START1)))
                          (COND
                             ((EQ INDEX END1)
                               (CL:IF (< SLEN1 SLEN2)
                                       (- INDEX OFFSET1)))
                             ((EQ (- INDEX START1)
                                   SLEN2)
                              NIL)
                             ((CL:CHAR-LESSP (%%ARRAY-READ BASE1 TYPENUMBER1 INDEX)
                                       (%%ARRAY-READ BASE2 TYPENUMBER2 (+ START2 REL-INDEX)))
                               (- INDEX OFFSET1])
(CL:DEFUN CL:STRING-NOT-EQUAL (STRING1 STRING2 &KEY START1 END1 START2 END2)
   "Compare two string for case insensitive equality"
[%%PARSE-STRING-ARGS STRING1 STRING2 START1 END1 START2 END2
(WITH-TWO-UNPACKED-STRINGS STRING1 STRING2 START1 END1 START2 END2
                   (LET ((INDEX (%%STRING-BASE-COMPARE-EQUAL BASE1 TYPENUMBER1 BASE2 TYPENUMBER2 START1 END1
                                          START2 END2)))
                         (CL:IF (AND (EQ INDEX END1)
                                       (EQ SLEN1 SLEN2))
                             NIL
                             (- INDEX OFFSET1))])
(CL:DEFUN CL:STRING-NOT-GREATERP (STRING1 STRING2 &KEY START1 END1 START2 END2)
   "Case insensitive version of STRING<="
[%%PARSE-STRING-ARGS STRING1 STRING2 START1 END1 START2 END2
           (WITH-TWO-UNPACKED-STRINGS STRING1 STRING2 START1 END1 START2 END2
(LET* ((INDEX (%%STRING-BASE-COMPARE-EQUAL BASE1 TYPENUMBER1 BASE2 TYPENUMBER2 START1 END1
                                           START2 END2))
                           (REL-INDEX (- INDEX START1)))
                          (COND
                             ((EQ INDEX END1)
                                 INDEX OFFSET1))
                             ((EQ (- INDEX START1)
                                   SLEN2)
                              NIL)
                             ((CL:CHAR-NOT-GREATERP (%%ARRAY-READ BASE1 TYPENUMBER1 INDEX)
                                       (%%ARRAY-READ BASE2 TYPENUMBER2 (+ START2 REL-INDEX)))
                               (- INDEX OFFSET1])
(CL:DEFUN CL:STRING-NOT-LESSP (STRING1 STRING2 &KEY START1 END1 START2 END2)
   "Case insensitive version of STRING>="
[%%PARSE-STRING-ARGS STRING1 STRING2 START1 END1 START2 END2
           (WITH-TWO-UNPACKED-STRINGS STRING1
                                                     STRING2 START1 END1 START2 END2
                   (LET* ((INDEX (%%STRING-BASE-COMPARE-EQUAL BASE1 TYPENUMBER1 BASE2 TYPENUMBER2 START1 END1
                                           START2 END2))
                           (REL-INDEX (- INDEX START1)))
                          (COND
                             ((EQ REL-INDEX SLEN2)
                               (- INDEX OFFSET1))
                             ((EQ INDEX END1)
                              NIL)
                             ((CL:CHAR-NOT-LESSP (%%ARRAY-READ BASE1 TYPENUMBER1 INDEX)
                                       (%%ARRAY-READ BASE2 TYPENUMBER2 (+ START2 REL-INDEX)))
                               (- INDEX OFFSET1])
(CL:DEFUN CL:STRING-RIGHT-TRIM (CHAR-BAG STRING)
   "Trim only on right"
(WITH-STRING STRING (LET [(RIGHT-END (CL:DO ((INDEX (CL:1- SLEN) (CL:1- INDEX))))
                                                      ((OR (< INDEX 0)
                                                            (NOT (CL:FIND (CL:CHAR STRING INDEX)
                                                                         CHAR-BAG)))
                                                       (CL:1+ INDEX)))]
                                (CL:SUBSEQ STRING 0 RIGHT-END))))
(CL:DEFUN CL:STRING-TRIM (CHAR-BAG STRING)
   ;; Given a set of characters (a list or string) and a string, returns a copy of the string with the characters in the set removed from both ends.
   (WITH-STRING STRING (LET* [(LEFT-END (CL:DO ((INDEX 0 (CL:1+ INDEX)))
                                                      ((OR (EQ INDEX SLEN)
                                                            (NOT (CL:FIND (CL:CHAR STRING INDEX)
                                                                         CHAR-BAG)))
                                                       INDEX)))
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(RIGHT-END (CL:DO ((INDEX (CL:1- SLEN)
                                                                    (CL:1- INDEX)))
                                                          ((OR (< INDEX LEFT-END)
                                                                (NOT (CL:FIND (CL:CHAR STRING INDEX)
                                                                              CHAR-BAG)))
                                                           (CL:1+ INDEX)))]
                                   (CL:SUBSEQ STRING LEFT-END RIGHT-END))))
(CL:DEFUN CL:STRING-UPCASE (STRING &KEY START END)
   "Given a string, returns a new string that is a copy of it with all lower case alphabetic characters
   converted to uppercase."
   (WITH-ONE-STRING STRING START END (%%STRING-UPCASE (COPY-VECTOR STRING (CL:MAKE-STRING SLEN))
                                                     START END)))
(CL:DEFUN CL:STRING/= (STRING1 STRING2 &KEY START1 END1 START2 END2)
   "Compare two strings for case sensitive inequality"

[%%PARSE-STRING-ARGS STRING1 STRING2 START1 END1 START2 END2

(WITH-TWO-UNPACKED-STRINGS STRING1 STRING2 START1 END1 START2 END2

(LET ((INDEX (%%STRING-BASE-COMPARE BASE1 TYPENUMBER1 BASE2 TYPENUMBER2 START1 END1 START2
                                            END2)))
                          (CL:IF (AND (EQ INDEX END1)
                                        (EQ SLEN1 SLEN2))
                               NIL
                               (- INDEX OFFSET1))])
(CL:DEFUN CL:STRING< (STRING1 STRING2 &KEY START1 END1 START2 END2)
   "A string A is less than a string B if in the first position in which they differ the character of A is less
   than the corresponding character of B according to char< or if string A is a proper prefix of string B (of
   [%%PARSE-STRING-ARGS STRING1 STRING2 START1 END1 START2 END2

(WITH-TWO-UNPACKED-STRINGS STRING1 STRING2 START1 END1 START2 END2

(LET* ((INDEX (%%STRING-BASE-COMPARE BASE1 TYPENUMBER1 BASE2 TYPENUMBER2 START1 END1 START2
                                             END2))
                             (REL-INDEX (- INDEX START1)))
                               ((EQ INDEX END1)
                                (CL:IF (< SLEN1 SLEN2)
                                         (- INDEX OFFSET1)))
                               ((EQ (- INDEX START1)
                                     SLEN2)
                               ((CL:CHAR< (%%ARRAY-READ BASE1 TYPENUMBER1 INDEX)
                                         (%%ARRAY-READ BASE2 TYPENUMBER2 (+ START2 REL-INDEX)))
                                 (- INDEX OFFSET1])
(CL:DEFUN CL:STRING<= (STRING1 STRING2 &KEY START1 END1 START2 END2)
[%%PARSE-STRING-ARGS STRING1 STRING2 START1 END1 START2 END2
(WITH-TWO-UNPACKED-STRINGS STRING1 STRING2 START1 END1 START2 END2
                    (LET* ((INDEX (%%STRING-BASE-COMPARE BASE1 TYPENUMBER1 BASE2 TYPENUMBER2 START1 END1 START2
                                            END2))
                             (REL-INDEX (- INDEX START1)))
                            (COND
                               ((EQ INDEX END1)
                                 (- INDEX OFFSET1))
                               ((EQ (- INDEX START1)
                                     SLEN2)
                                NIL)
                               ((CL:CHAR<= (%%ARRAY-READ BASE1 TYPENUMBER1 INDEX)
                                         (%%ARRAY-READ BASE2 TYPENUMBER2 (+ START2 REL-INDEX)))
                                 (- INDEX OFFSET1])
(CL:DEFUN CL:STRING= (STRING1 STRING2 &KEY START1 END1 START2 END2)
   "Compare two strings for case sensitive equality" (CL:IF (OR START1 END1 START2 END2)
        [%%PARSE-STRING-ARGS STRING1 STRING2 START1 END1 START2 END2
                 (CL:IF (EQ SLEN1 SLEN2)
                      (WITH-TWO-UNPACKED-STRINGS STRING1 STRING2 START1 END1 START2 END2
                              (EQ END1 (%%STRING-BASE-COMPARE BASE1 TYPENUMBER1 BASE2 TYPENUMBER2 START1 END1
                                                 START2 END2))))]
        (CL::SIMPLE-STRING= STRING1 STRING2)))
(CL:DEFUN CL:STRING> (STRING1 STRING2 &KEY START1 END1 START2 END2)
   [%%PARSE-STRING-ARGS STRING1 STRING2 START1 END1 START2 END2 (WITH-TWO-UNPACKED-STRINGS STRING1 STRING2 START1 END1 START2 END2
                    (LET* ((INDEX (%%STRING-BASE-COMPARE BASE1 TYPENUMBER1 BASE2 TYPENUMBER2 START1 END1 START2
                                             END2))
                             (REL-INDEX (- INDEX START1)))
                            (COND
                               ((EQ REL-INDEX SLEN2)
                                 (CL:IF (> SLEN1 SLEN2)
(- INDEX OFFSET1)))
```

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' [COND
   [(CL:SYMBOLP ,OBJECT) (SETQ ,BASE (fetch (LITATOM PNAMEBASE) of ,OBJECT))
     (SETQ ,OFFSET 1)
     (SETQ , TYPENUMBER (CL:IF (fetch (LITATOM FATPNAMEP) of , OBJECT)
                              %%FAT-CHAR-TYPENUMBER
                              %%THIN-CHAR-TYPENUMBER))
     ,@(CL:IF LENGTH
            `[(SETQ , LENGTH (fetch (LITATOM PNAMELENGTH) of , OBJECT])]
    (T [COND
```

(PUTPROPS CMLSTRING COPYRIGHT ("Venue & Xerox Corporation" 1985 1986 1987 1990 2021))

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(LOCALVARS . T)

{MEDLEY}<sources>CMLSTRING.;1 28-Jun-2024 18:34:03

-- Listed on 30-Jun-2024 13:15:36 --

FUNCTION INDEX %%STRING-BASE-COMPARE1 CL:STRING-RIGHT-TRIM4 STRING3 CL:STRING-TRIM4 %%STRING-BASE-COMPARE-EQUAL2 %%STRING-DOWNCASE2 CL:STRING-UPCASE5 %%STRING-UPCASE2 CL:STRING/=5 CL:MAKE-STRING2 CL:STRING<5 CL:NSTRING-CAPITALIZE2 CL:STRING<=5 CL:NSTRING-DOWNCASE2 CL:STRING-LESSP4 CL:STRING=5 CL:NSTRING-UPCASE3 CL:STRING-NOT-EQUAL4 CL:STRING>5 CL::SIMPLE-STRING-EQUAL .1 CL::SIMPLE-STRING= .1 CL:STRING-NOT-GREATERP . . 4 CL:STRING-NOT-LESSP . . . 4 CL:STRING>=6 **MACRO INDEX** %%STRING-LENGTH7 %%ADJUST-FOR-OFFSET7 WITH-ONE-STRING-ONLY6 %%CHECK-BOUNDS7 %%UNPACK-STRING6 WITH-STRING6 %%PARSE-STRING-ARGS7 WITH-TWO-UNPACKED-STRINGS6 WITH-ONE-STRING6 **OPTIMIZER INDEX** STRING-EQUAL6 CL:STRING=6 **PROPERTY INDEX**