```
(RPAQQ CMLMISCIOCOMS (;; Random leftover IO functions
                      ;; [JDS 2/3/88: Removed FRESH-LINE from here, since it's also in CMLPRINT. AR #9601]
                      (FUNCTIONS CL:WRITE-STRING WRITE-STRING* CL:Y-OR-N-P CL:YES-OR-NO-P)
                      ;; Arrange to use the proper compiler
                      (PROP FILETYPE CMLMISCIO)))
```

```
;; Random leftover IO functions
;; [JDS 2/3/88: Removed FRESH-LINE from here, since it's also in CMLPRINT. AR #9601]
```

```
(CL:DEFUN CL:WRITE-STRING (STRING &OPTIONAL (STREAM *STANDARD-OUTPUT*)
                                  &KEY
                                  (CL::START 0)
                                  CL::END)
   (WRITE-STRING* STRING STREAM CL::START CL::END)
   STRING)
```

```
(CL:DEFUN WRITE-STRING* (STRING &OPTIONAL (STREAM *STANDARD-OUTPUT*)
                                (START 0)
                                END &AUX (STRING-LENGTH (CL:LENGTH STRING)))
   (CL:CHECK-TYPE STRING STRING)
   (CL:WHEN (NULL END)
        (SETQ END STRING-LENGTH))
   (CL:ASSERT (AND (<= 0 START STRING-LENGTH)
                   (<= START END STRING-LENGTH))
        '(START END)
        "Start (~D) or end (~D) argument out of bounds." START END)
   ;; The following comes mainly from \PRINSTRING...
   (LET ((CHARS-TO-PRINT (- END START))
         (STRM (\\GETSTREAM STREAM 'OUTPUT))
         \\THISFILELINELENGTH)
        (DECLARE (SPECVARS \\THISFILELINELENGTH))
        (CL:WHEN (CL:PLUSP CHARS-TO-PRINT)
            (.SPACECHECK. STREAM CHARS-TO-PRINT)

            ;; Essentially (for x instring string do (\outchar strm x)).

            (CL:DO ((FATP (|ffetch| (STRINGP FATSTRINGP) |of| STRING))
                    (BASE (|ffetch| (STRINGP BASE) |of| STRING))
                    (OFFSET (IPLUS START (|ffetch| (STRINGP OFFST) |of| STRING))
                            (ADD1 OFFSET))
                    (END (IPLUS END (|ffetch| (STRINGP OFFST) |of| STRING))))
                   ((>= OFFSET END))
                (\\OUTCHAR STRM (CL:IF FATP
                                    (\\GETBASEFAT BASE OFFSET)
                                    (\\GETBASETHIN BASE OFFSET)))))))
   STRING)
```

```
(CL:DEFUN CL:Y-OR-N-P (&OPTIONAL FORMAT-STRING &REST ARGUMENTS)
   (COND
      (FORMAT-STRING (CL:FRESH-LINE)
            (CL:APPLY (FUNCTION CL:FORMAT)
                  *QUERY-IO* FORMAT-STRING ARGUMENTS)))
   (CL:FLET ((CL::READ-CHAR-NOW NIL (RESETFORM (CONTROL T)
                                         (CL:READ-CHAR *QUERY-IO*))))
        (CL:DO ((CL::RESPONSE (CL::READ-CHAR-NOW)
                       (CL::READ-CHAR-NOW)))
               ((OR (CL:CHAR-EQUAL CL::RESPONSE #\Y)
                    (CL:CHAR-EQUAL CL::RESPONSE #\N))
                (CL:FRESH-LINE)
                (CL:CHAR-EQUAL CL::RESPONSE #\Y))
            (CL:FORMAT *QUERY-IO* "~&Please type either Y or N: "))))
```

```
(CL:DEFUN CL:YES-OR-NO-P (&OPTIONAL CL::FORMAT-STRING &REST CL::ARGUMENTS)
   (CL:WHEN CL:FORMAT-STRING
        (CL:FRESH-LINE *QUERY-IO*)
        (CL:APPLY #'CL:FORMAT *QUERY-IO* CL::FORMAT-STRING CL::ARGUMENTS)))
```

```
      (CL:DO ((CL::RESPONSE (CL:READ-LINE *QUERY-IO*)
                    (CL:READ-LINE *QUERY-IO*)))
             ((OR (STRING-EQUAL CL::RESPONSE "YES")
                  (STRING-EQUAL CL::RESPONSE "NO"))
              (STRING-EQUAL CL::RESPONSE "YES"))
         (CL:FORMAT *QUERY-IO* "Please type either YES or NO: ")))
```

;; Arrange to use the proper compiler

(PUTPROPS **CMLMISCIO FILETYPE** CL:COMPILE-FILE)

(PUTPROPS **CMLMISCIO COPYRIGHT** ("Venue & Xerox Corporation" 1986 1987 1988 1990))

FUNCTION INDEX

CL:WRITE-STRING 1   WRITE-STRING* 1   CL:Y-OR-N-P 1   CL:YES-OR-NO-P 1

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