```
16-May-90 14:19:58 {DSK}<usr>local>lde>lispcore>sources>CMLPRINT.;2
 File created:
  changes to:
               (VARS CMLPRINTCOMS)
previous date:
               16-Feb-88 11:47:48 {DSK}<usr>local>lde>lispcore>sources>CMLPRINT.;1
 Read Table:
               INTERLISP
   Package:
               INTERLISP
      Format:
                XCCS
;; Copyright (c) 1985, 1986, 1987, 1988, 1990 by Venue & Xerox Corporation. All rights reserved.
(RPAQQ CMLPRINTCOMS
       [(FNS WRITE CL:WRITE-CHAR CL:PRIN1 CL:PRINT CL:TERPRI CL:FRESH-LINE CL:FINISH-OUTPUT CL:FORCE-OUTPUT
              CL:CLEAR-OUTPUT CL:PPRINT CL:PRINC)
         (FUNCTIONS \WRITE1)
(FNS CL:WRITE-TO-STRING CL:PRIN1-TO-STRING CL:PRINC-TO-STRING)
         (FUNCTIONS CL: WRITE-LINE)
         (INITVARS (XCL:*PRINT-STRUCTURE*))
         (PROP FILETYPE CMLPRINT)
         (DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS
                (ADDVARS (NLAMA)
                        (NLAML)
                        (LAMA CL:WRITE-TO-STRING CL:PRINC CL:PPRINT CL:PRINT CL:PRIN1 CL:WRITE-CHAR WRITE])
(DEFINEO
WRITE
  (CL:LAMBDA (OBJECT &KEY (STREAM *STANDARD-OUTPUT*)
                      ((:ESCAPE *PRINT-ESCAPE*)
                       *PRINT-ESCAPE*)
                      ((:RADIX *PRINT-RADIX*)
                       *PRINT-RADIX*)
                      ((:BASE *PRINT-BASE*)
                       *PRINT-BASE*)
                      ((:LEVEL *PRINT-LEVEL*)
                       *PRINT-LEVEL*)
                      ((:LENGTH *PRINT-LENGTH*)
                       *PRINT-LENGTH*)
                      ((:CASE *PRINT-CASE*)
                       *PRINT-CASE*)
                      ((:GENSYM *PRINT-GENSYM*)
                       *PRINT-GENSYM*)
                      ((:ARRAY *PRINT-ARRAY*)
                       *PRINT-ARRAY*)
                      ((:PRETTY *PRINT-PRETTY*)
                       *PRINT-PRETTY*)
                      ((:CIRCLE *PRINT-CIRCLE*)
                       *PRINT-CIRCLE*))
                                                                       : Edited 20-Feb-87 16:56 by bym:
          (DECLARE (CL:SPECIAL *PRINT-ESCAPE* *PRINT-RADIX* *PRINT-BASE* *PRINT-LEVEL* *PRINT-LENGTH*

*PRINT-CASE* *PRINT-GENSYM* *PRINT-ARRAY* *PRINT-PRETTY* *PRINT-CIRCLE*
                            *PRINT-CIRCLE-HASHTABLE* *PRINT-CIRCLE-NUMBER* THERE-ARE-CIRCLES))
                                                                       ; Make sure STREAM ends up as an appropriate stream
          (SETQ STREAM (\GETSTREAM STREAM 'OUTPUT))
          [COND
             ((OR (NOT *PRINT-CIRCLE*)
                   *PRINT-CIRCLE-HASHTABLE*)
              (\WRITE1 OBJECT STREAM))
             (T (LET ((*PRINT-CIRCLE-NUMBER* 1)
                       (*PRINT-CIRCLE-HASHTABLE* (CL:MAKE-HASH-TABLE))
                       THERE-ARE-CIRCLES)
                      (DECLARE (CL:SPECIAL *PRINT-CIRCLE-NUMBER* *PRINT-CIRCLE-HASHTABLE* THERE-ARE-CIRCLES))
                      (PRINT-CIRCLE-SCAN OBJECT)
                      (COND
                         ((NOT THERE-ARE-CIRCLES)
                           (CL:SETQ *PRINT-CIRCLE-HASHTABLE* NIL)))
                      (\WRITE1 OBJECT STREAM]
          OBJECT))
(CL:WRITE-CHAR
  (CL:LAMBDA (CHARACTER &OPTIONAL OUTPUT-STREAM)
                                                                       ; Edited 20-Feb-87 16:57 by bvm:
          (\OUTCHAR (\GETSTREAM OUTPUT-STREAM 'OUTPUT)
                 (CL:CHAR-INT CHARACTER))
          CHARACTER))
(CL:PRIN1
  (CL:LAMBDA (OBJECT &OPTIONAL OUTPUT-STREAM)
                                                                       ; Edited 20-Feb-87 16:58 by bvm:
          (WRITE OBJECT :STREAM OUTPUT-STREAM :ESCAPE T)))
```

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{MEDLEY} < sources > CMLPRINT.; 1 (CL:PRINT cont.)
                                                                                                                    Page 2
  (CL:LAMBDA (OBJECT &OPTIONAL (OUTPUT-STREAM *STANDARD-OUTPUT*))
                                                                      (* lmm " 4-May-86 03:15")
         (TERPRI OUTPUT-STREAM)
         (PROG1 (CL:PRIN1 OBJECT OUTPUT-STREAM)
                 (SPACES 1 OUTPUT-STREAM))))
(CL:TERPRI
  [LAMBDA (OUTPUT-STREAM)
                                                                      (* bvm%: "19-May-86 15:53")
    (TERPRI (OR OUTPUT-STREAM *STANDARD-OUTPUT*])
(CL:FRESH-LINE
  [LAMBDA (OUTPUT-STREAM)
                                                                      (* bvm%: "19-May-86 15:53")
    (FRESHLINE (OR OUTPUT-STREAM *STANDARD-OUTPUT*])
(CL:FINISH-OUTPUT
                                                                      (* bvm%: "19-May-86 15:53")
  [LAMBDA (OUTPUT-STREAM)
    (FORCEOUTPUT (OR OUTPUT-STREAM *STANDARD-OUTPUT*)
    NIL1)
(CL:FORCE-OUTPUT
                                                                      (* bvm%: "19-May-86 15:53")
  [LAMBDA (OUTPUT-STREAM)
    (FORCEOUTPUT (OR OUTPUT-STREAM *STANDARD-OUTPUT*))
    NIL])
(CL:CLEAR-OUTPUT
  [LAMBDA (OUTPUT-STREAM)
                                                                      (* bvm%: "19-May-86 15:38")
   NIL])
(CL:PPRINT
  (CL:LAMBDA (OBJECT &OPTIONAL (OUTPUT-STREAM *STANDARD-OUTPUT*))
                                                                      (* lmm " 4-May-86 03:19")
          (TERPRI OUTPUT-STREAM)
         (WRITE OBJECT :STREAM OUTPUT-STREAM :ESCAPE T :PRETTY T)
         (CL:VALUES)))
(CL:PRINC
                                                                      ; Edited 20-Feb-87 16:59 by bvm:
  (CL:LAMBDA (OBJECT &OPTIONAL OUTPUT-STREAM)
         (WRITE OBJECT :STREAM OUTPUT-STREAM :ESCAPE NIL)))
(CL:DEFUN \WRITE1 (OBJECT STREAM)
   (CL:IF (AND *PRINT-PRETTY* (OR (NOT *PRINT-CIRCLE*)
                                     (NOT *PRINT-CIRCLE-HASHTABLE*))
                *PRINT-ESCAPE*)
       ;; If :pretty is on, and either :circle is not, or it was and no circles exist, and :escape is on...
       ;; For the moment, *PRINT-CIRCLE* and *PRINT-ESCAPE* override *PRINT-PRETTY* completely. This leaves *PRINT-LEVEL* AND
       ;; *PRINT-LENGTH* ignored when *PRINT-PRETTY* is on; this must be fixed later... probably by a new pretty-printer (ecch).
            (FONTCHANGEFLG)
             (DECLARE (CL:SPECIAL FONTCHANGEFLG))
             (PRINTDEF OBJECT (POSITION STREAM)
                    NIL NIL NIL STREAM))
       ;; otherwise just print it all on one line
       (LET (\THISFILELINELENGTH)
             (DECLARE (CL:SPECIAL \THISFILELINELENGTH))
             ;; CommonLisp streams do not observe line length
             (\PRINDATUM OBJECT (\GETSTREAM STREAM 'OUTPUT)
                    0))))
(DEFINEO
(CL:WRITE-TO-STRING
  (CL:LAMBDA (OBJECT &KEY ((:ESCAPE *PRINT-ESCAPE*)
                             *PRINT-ESCAPE*)
                     ((:RADIX *PRINT-RADIX*)
                       *PRINT-RADIX*)
                     ((:BASE *PRINT-BASE*)
                       *PRINT-BASE*)
                     ((:CIRCLE *PRINT-CIRCLE*)
                       *PRINT-CIRCLE*)
                     ((:PRETTY *PRINT-PRETTY*)
                       *PRINT-PRETTY*)
                     ((:LEVEL *PRINT-LEVEL*)
```

PRINT-LEVEL)

((:LENGTH *PRINT-LENGTH*)

(PUTPROPS CMLPRINT COPYRIGHT ("Venue & Xerox Corporation" 1985 1986 1987 1988 1990))

{MEDLEY}<sources>CMLPRINT.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:15:33 --

FUNCTION INDEX			
CL:FINISH-OUTPUT2 CL:FORCE-OUTPUT2	CL:PPRINT 2 CL:PRIN1 1 CL:PRIN1-TO-STRING 3 CL:PRINC 2	CL:PRINT	CL:WRITE-LINE3 CL:WRITE-TO-STRING2
PROPERTY INDEX CMLPRINT			
	VARIABI	LE INDEX	
XCL:*PRINT-STRUCTURE*3			