```
16-May-90 21:23:08 {DSK}<usr>local>lde>lispcore>sources>READ-PRINT-PROFILE.;2
 File created:
  changes to:
              (IL: VARS IL: READ-PRINT-PROFILECOMS)
previous date:
              13-Nov-86 11:37:11 {DSK}<usr>local>lde>lispcore>sources>READ-PRINT-PROFILE.;1
 Read Table:
              INTERLISP
   Package:
              XEROX-COMMON-LISP
      Format:
               XCCS
          (IL:* IL:* : "
           Copyright (c) 1986, 1990 by Venue & Xerox Corporation. All rights reserved.
(IL:RPAQQ IL:READ-PRINT-PROFILECOMS
           ((IL:P (EXPORT '(MAKE-READ-PRINT-PROFILE COPY-READ-PRINT-PROFILE READ-PRINT-PROFILE-P
                                  READ-PRINT-PROFILE-READTABLE READ-PRINT-PROFILE-READ-BASE
                                  READ-PRINT-PROFILE-READ-SUPPRESS READ-PRINT-PROFILE-PACKAGE
                                  READ-PRINT-PROFILE-READ-DEFAULT-FLOAT-FORMAT READ-PRINT-PROFILE-PRINT-ESCAPE
                                  READ-PRINT-PROFILE-PRINT-PRETTY READ-PRINT-PROFILE-PRINT-CIRCLE
                                  READ-PRINT-PROFILE-PRINT-BASE READ-PRINT-PROFILE-PRINT-RADIX
                                  READ-PRINT-PROFILE-PRINT-CASE READ-PRINT-PROFILE-PRINT-GENSYM
                                  READ-PRINT-PROFILE-PRINT-LEVEL READ-PRINT-PROFILE-PRINT-LENGTH
                                  READ-PRINT-PROFILE-PRINT-ARRAY READ-PRINT-PROFILE-PRINT-STRUCTURE
                                  RESTORE-READ-PRINT-PROFILE SAVE-READ-PRINT-PROFILE WITH-READ-PRINT-PROFILE
                                   *DEFAULT-READ-PRINT-PROFILE* FIND-READ-PRINT-PROFILE
                                  LIST-ALL-READ-PRINT-PROFILE-NAMES)
                         "XCL"))
           (IL:STRUCTURES READ-PRINT-PROFILE)
            (IL:FUNCTIONS MAKE-READ-PRINT-PROFILE RESTORE-READ-PRINT-PROFILE SAVE-READ-PRINT-PROFILE
                  WITH-READ-PRINT-PROFILE FIND-READ-PRINT-PROFILE SETF-FIND-READ-PRINT-PROFILE
                   LIST-ALL-READ-PRINT-PROFILE-NAMES)
           (IL:SETFS FIND-READ-PRINT-PROFILE)
            (IL:VARIABLES *READ-PRINT-PROFILES* *DEFAULT-READ-PRINT-PROFILE*)
            (IL:PROP (IL:MAKEFILE-ENVIRONMENT IL:FILETYPE)
                   IL:READ-PRINT-PROFILE)))
(EXPORT '(MAKE-READ-PRINT-PROFILE COPY-READ-PRINT-PROFILE READ-PRINT-PROFILE-P READ-PRINT-PROFILE-READTABLE
                READ-PRINT-PROFILE-READ-BASE READ-PRINT-PROFILE-READ-SUPPRESS READ-PRINT-PROFILE-PACKAGE
                READ-PRINT-PROFILE-READ-DEFAULT-FLOAT-FORMAT READ-PRINT-PROFILE-PRINT-ESCAPE
                READ-PRINT-PROFILE-PRINT-PRETTY READ-PRINT-PROFILE-PRINT-CIRCLE READ-PRINT-PROFILE-PRINT-BASE
                READ-PRINT-PROFILE-PRINT-RADIX READ-PRINT-PROFILE-PRINT-CASE READ-PRINT-PROFILE-PRINT-GENSYM
                READ-PRINT-PROFILE-PRINT-LEVEL READ-PRINT-PROFILE-PRINT-LENGTH READ-PRINT-PROFILE-PRINT-ARRAY
                READ-PRINT-PROFILE-PRINT-STRUCTURE RESTORE-READ-PRINT-PROFILE SAVE-READ-PRINT-PROFILE
                WITH-READ-PRINT-PROFILE *DEFAULT-READ-PRINT-PROFILE* FIND-READ-PRINT-PROFILE
                LIST-ALL-READ-PRINT-PROFILE-NAMES)
       "XCL")
(DEFSTRUCT (READ-PRINT-PROFILE (:CONSTRUCTOR INTERNAL-MAKE-READ-PRINT-PROFILE))
;;; Holds complete collection of read / print affecting globals.
   READTABLE
   READ-BASE
   READ-SUPPRESS
   PACKAGE
   READ-DEFAULT-FLOAT-FORMAT
   PRINT-ESCAPE
   PRINT-PRETTY
   PRINT-CIRCLE
   PRINT-BASE
   PRINT-RADIX
   PRINT-CASE
   PRINT-GENSYM
   PRINT-LEVEL
   PRINT-LENGTH
   PRINT-ARRAY
   PRINT-STRUCTURE)
(DEFUN MAKE-READ-PRINT-PROFILE (&KEY (READTABLE *READTABLE*)
                                              (READ-BASE *READ-BASE*)
                                              (READ-SUPPRESS *READ-SUPPRESS*)
                                              (PACKAGE *PACKAGE*)
                                              (READ-DEFAULT-FLOAT-FORMAT *READ-DEFAULT-FLOAT-FORMAT*)
                                              (PRINT-ESCAPE *PRINT-ESCAPE*)
                                              (PRINT-PRETTY *PRINT-PRETTY*)
(PRINT-CIRCLE *PRINT-CIRCLE*)
                                              (PRINT-BASE *PRINT-BASE*)
                                             (PRINT-RADIX *PRINT-RADIX*)
(PRINT-CASE *PRINT-CASE*)
                                              (PRINT-GENSYM *PRINT-GENSYM*)
                                              (PRINT-LEVEL *PRINT-LEVEL*)
                                              (PRINT-LENGTH *PRINT-LENGTH*))
```

;;; Create and return a profile with default contents the current bindings of the read print special variables.

```
(INTERNAL-MAKE-READ-PRINT-PROFILE : READTABLE READTABLE : READ-BASE READ-BASE : READ-SUPPRESS READ-SUPPRESS
           :PACKAGE PACKAGE :READ-DEFAULT-FLOAT-FORMAT READ-DEFAULT-FLOAT-FORMAT :PRINT-ESCAPE PRINT-ESCAPE
           :PRINT-PRETTY PRINT-PRETTY :PRINT-CIRCLE PRINT-CIRCLE :PRINT-BASE PRINT-BASE :PRINT-RADIX PRINT-RADIX
           :PRINT-CASE PRINT-CASE :PRINT-GENSYM PRINT-GENSYM :PRINT-LEVEL PRINT-LEVEL :PRINT-LENGTH PRINT-LENGTH)
)
(DEFUN RESTORE-READ-PRINT-PROFILE (PROFILE)
   "Restore values of special io bindings from profile. Sets current bindings. Returns T."
   (SETF *READTABLE* (READ-PRINT-PROFILE-READTABLE PROFILE))
   (SETF *READ-BASE* (READ-PRINT-PROFILE-READ-BASE PROFILE))
   (SETF *READ-SUPPRESS* (READ-PRINT-PROFILE-READ-SUPPRESS PROFILE))
   (SETF *PACKAGE* (READ-PRINT-PROFILE-PACKAGE PROFILE))
   (SETF *READ-DEFAULT-FLOAT-FORMAT* (READ-PRINT-PROFILE-READ-DEFAULT-FLOAT-FORMAT PROFILE))
   (SETF *PRINT-ESCAPE* (READ-PRINT-PROFILE-PRINT-ESCAPE PROFILE))
(SETF *PRINT-PRETTY* (READ-PRINT-PROFILE-PRINT-PRETTY PROFILE))
(SETF *PRINT-CIRCLE* (READ-PRINT-PROFILE-PRINT-CIRCLE PROFILE))
   (SETF *PRINT-BASE* (READ-PRINT-PROFILE-PRINT-BASE PROFILE))
(SETF *PRINT-RADIX* (READ-PRINT-PROFILE-PRINT-RADIX PROFILE))
(SETF *PRINT-CASE* (READ-PRINT-PROFILE-PRINT-CASE PROFILE))
   (SETF *PRINT-GENSYM* (READ-PRINT-PROFILE-PRINT-GENSYM PROFILE))
   (SETF *PRINT-GENSIM" (READ-PRINT-FROFILE PRINT-LEVEL PROFILE))
(SETF *PRINT-LEVEL* (READ-PRINT-PROFILE-PRINT-LEVEL PROFILE))
(SETF *PRINT-LENGTH* (READ-PRINT-PROFILE-PRINT-LENGTH PROFILE))
(SETF *PRINT-ARRAY* (READ-PRINT-PROFILE-PRINT-ARRAY PROFILE))
   (SETF *PRINT-STRUCTURE* (READ-PRINT-PROFILE-PRINT-STRUCTURE PROFILE))
(DEFUN SAVE-READ-PRINT-PROFILE (PROFILE)
   "Capture bindings of special io variables.
                                                     Returns profile."
   (SETF (READ-PRINT-PROFILE-READTABLE PROFILE)
          *READTABLE*)
   (SETF (READ-PRINT-PROFILE-READ-BASE PROFILE)
          *READ-BASE*)
   (SETF (READ-PRINT-PROFILE-READ-SUPPRESS PROFILE)
          *READ-SUPPRESS*)
   (SETF (READ-PRINT-PROFILE-PACKAGE PROFILE)
           *PACKAGE*)
   (SETF (READ-PRINT-PROFILE-READ-DEFAULT-FLOAT-FORMAT PROFILE)
          *READ-DEFAULT-FLOAT-FORMAT*)
   (SETF (READ-PRINT-PROFILE-PRINT-ESCAPE PROFILE)
           *PRINT-ESCAPE*)
   (SETF (READ-PRINT-PROFILE-PRINT-PRETTY PROFILE)
           *PRINT-PRETTY*)
   (SETF (READ-PRINT-PROFILE-PRINT-CIRCLE PROFILE)
          *PRINT-CIRCLE*)
   (SETF (READ-PRINT-PROFILE-PRINT-BASE PROFILE)
          *PRINT-BASE*)
   (SETF (READ-PRINT-PROFILE-PRINT-RADIX PROFILE)
          *PRTNT-RADTX*)
   (SETF (READ-PRINT-PROFILE-PRINT-CASE PROFILE)
          *PRINT-CASE*)
   (SETF (READ-PRINT-PROFILE-PRINT-GENSYM PROFILE)
          *PRINT-GENSYM*)
   (SETF (READ-PRINT-PROFILE-PRINT-LEVEL PROFILE)
          *PRINT-LEVEL*)
   (SETF (READ-PRINT-PROFILE-PRINT-LENGTH PROFILE)
          *PRINT-LENGTH*)
   (SETF (READ-PRINT-PROFILE-PRINT-ARRAY PROFILE)
          *PRINT-ARRAY*)
   (SETF (READ-PRINT-PROFILE-PRINT-STRUCTURE PROFILE)
          *PRINT-STRUCTURE*)
   PROFILE)
(DEFMACRO WITH-READ-PRINT-PROFILE (PROFILE-FORM & BODY FORMS)
   "Bind all the special IO variables to the values in the profile and execute the body forms."
   `(LET ((PROFILE, PROFILE-FORM))
          (*READ-SUPPRESS* (READ-PRINT-PROFILE-READ-SUPPRESS PROFILE))
                 (*PACKAGE* (READ-PRINT-PROFILE-PACKAGE PROFILE))
                 (*READ-DEFAULT-FLOAT-FORMAT* (READ-PRINT-PROFILE-READ-DEFAULT-FLOAT-FORMAT PROFILE))
                  (*PRINT-ESCAPE* (READ-PRINT-PROFILE-PRINT-ESCAPE PROFILE))
                  (*PRINT-PRETTY* (READ-PRINT-PROFILE-PRINT-PRETTY PROFILE))
                 (*PRINT-CIRCLE* (READ-PRINT-PROFILE-PRINT-CIRCLE PROFILE))
                 (*PRINT-BASE* (READ-PRINT-PROFILE-PRINT-BASE PROFILE))
(*PRINT-RADIX* (READ-PRINT-PROFILE-PRINT-RADIX PROFILE))
                  (*PRINT-CASE* (READ-PRINT-PROFILE-PRINT-CASE PROFILE))
                  (*PRINT-GENSYM* (READ-PRINT-PROFILE-PRINT-GENSYM PROFILE))
                 (*PRINT-LEVEL* (READ-PRINT-PROFILE-PRINT-LEVEL PROFILE))
(*PRINT-LENGTH* (READ-PRINT-PROFILE-PRINT-LENGTH PROFILE))
                  (*PRINT-ARRAY* (READ-PRINT-PROFILE-PRINT-ARRAY PROFILE))
                  (*PRINT-STRUCTURE* (READ-PRINT-PROFILE-PRINT-STRUCTURE PROFILE)))
```

```
{MEDLEY}<internal>READ-PRINT-PROFILE:;1 (WITH-READ-PRINT-PROFILE cont.)
             ,@FORMS)))
(DEFUN FIND-READ-PRINT-PROFILE (NAME)
  (GETHASH (STRING-UPCASE NAME)
         *READ-PRINT-PROFILES*))
(DEFUN SETF-FIND-READ-PRINT-PROFILE (NAME READ-PRINT-PROFILE)
  (CHECK-TYPE READ-PRINT-PROFILE READ-PRINT-PROFILE)
  (SETF (GETHASH (STRING-UPCASE NAME)
               *READ-PRINT-PROFILES*)
        READ-PRINT-PROFILE))
(DEFUN LIST-ALL-READ-PRINT-PROFILE-NAMES ()
  (LET ((NAMES NIL)
        (MAPHASH #' (LAMBDA (NAME VALUE)
                          (PUSH NAME NAMES))
              *READ-PRINT-PROFILES*)
       NAMES))
(DEFSETF FIND-READ-PRINT-PROFILE SETF-FIND-READ-PRINT-PROFILE)
(DEFPARAMETER *READ-PRINT-PROFILES*
  (LET ((TABLE (MAKE-HASH-TABLE :TEST 'EQUAL))
         (LISP-TABLE (MAKE-READ-PRINT-PROFILE : READTABLE (IL:FIND-READTABLE "LISP")
                            :READ-BASE 10 :READ-SUPPRESS NIL :PACKAGE (FIND-PACKAGE "USER")
                            :READ-DEFAULT-FLOAT-FORMAT
                            SINGLE-FLOAT :PRINT-ESCAPE T :PRINT-PRETTY NIL :PRINT-CIRCLE NIL :PRINT-BASE 10
                            :PRINT-RADIX NIL :PRINT-CASE :UPCASE :PRINT-GENSYM T :PRINT-LEVEL NIL :PRINT-LENGTH
                            NIL :PRINT-ARRAY NIL :PRINT-STRUCTURE NIL))
        (XCL-TABLE (MAKE-READ-PRINT-PROFILE : READTABLE (IL:FIND-READTABLE "XCL")
                          :READ-BASE 10 :READ-SUPPRESS NIL :PACKAGE (FIND-PACKAGE "XCL-USER")
                           :READ-DEFAULT-FLOAT-FORMAT
                           'SINGLE-FLOAT :PRINT-ESCAPE T :PRINT-PRETTY NIL :PRINT-CIRCLE NIL :PRINT-BASE 10
                           :PRINT-RADIX NIL :PRINT-CASE :UPCASE :PRINT-GENSYM T :PRINT-LEVEL NIL :PRINT-LENGTH
                               :PRINT-ARRAY NIL :PRINT-STRUCTURE NIL))
         (INTERLISP-TABLE (MAKE-READ-PRINT-PROFILE : READTABLE (IL:FIND-READTABLE "INTERLISP")
                                :READ-BASE 10 :READ-SUPPRESS NIL :PACKAGE (FIND-PACKAGE "INTERLISP")
                                 :READ-DEFAULT-FLOAT-FORMAT
                                 'SINGLE-FLOAT :PRINT-ESCAPE T :PRINT-PRETTY NIL :PRINT-CIRCLE NIL :PRINT-BASE
                                10 :PRINT-RADIX NIL :PRINT-CASE :UPCASE :PRINT-GENSYM T :PRINT-LEVEL NIL
                                 :PRINT-LENGTH NIL :PRINT-ARRAY NIL :PRINT-STRUCTURE NIL)))
        (SETF (GETHASH "LISP" TABLE)
             LISP-TABLE)
        (SETF (GETHASH "XCL" TABLE)
             XCL-TABLE)
        (SETF (GETHASH "INTERLISP" TABLE)
             INTERLISP-TABLE)
       TABLE)
  "Where read-print-modes live.")
(DEFPARAMETER *DEFAULT-READ-PRINT-PROFILE* (FIND-READ-PRINT-PROFILE "INTERLISP")
                                                  "The default read & print state to be used when not explicitly
                                                 set.")
(IL:PUTPROPS IL:READ-PRINT-PROFILE IL:MAKEFILE-ENVIRONMENT (:READTABLE "INTERLISP" :PACKAGE "XCL"))
(IL:PUTPROPS IL:READ-PRINT-PROFILE IL:FILETYPE IL:COMPILE-FILE)
```

(IL:PUTPROPS IL:READ-PRINT-PROFILE IL:COPYRIGHT ("Venue & Xerox Corporation" 1986 1990))

## 

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