

File created: 1-Sep-87 11:23:23 {ERINYES}<LISPUSERS>KOTO>PATCH-TWOSIDED.;1

previous date: 15-Oct-86 12:20:47 {QV}<BRIGGS>LISP>PATCH-TWOSIDED.;1

Read Table: OLD-INTERLISP-FILE

Package: INTERLISP

Format: XCCS

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```
(RPAQQ PATCH-TWOSIDEDCOMS ((FNS \NSPRINT.INTERNAL)
                           (DECLARE: EVAL@COMPILE DONTEVAL@LOAD DONTCOPY (FILES (LOADCOMP)
                                                                               NSPRINT))))
```

(DEFINEQ

(\NSPRINT.INTERNAL

[LAMBDA (PRINTER OPTIONS TRANSFERFN)

(* N.H.Briggs "27-Sep-86 16:31")

(* * Calls the PRINT program for PRINTER, interpreting OPTIONS as a plist of print options.

TRANSFERFN is a function applied to the transfer stream to actually send the Interpress master)

```
(PROG ((MEDIUM (OR (LISTGET OPTIONS (QUOTE MEDIUM))
                    NSPRINT.DEFAULT.MEDIUM))
      (STAPLE? (LISTGET OPTIONS (QUOTE STAPLE?)))
      (TWO.SIDED? (EQ 2 (OR (LISTGET OPTIONS (QUOTE #SIDES))
                           EMPRESS#SIDES)))
      (SENDER.NAME (OR (LISTGET OPTIONS (QUOTE SENDER.NAME))
                       (USERNAME NIL NIL T)))
      (DOCNAME (OR (LISTGET OPTIONS (QUOTE DOCUMENT.NAME))
                   "Document"))
      PROPERTIES ATTRIBUTES COURIERSTREAM VALUE PRINTOPTIONS STATUS)
[SETQ ATTRIBUTES (BQUOTE ((PRINT.OBJECT.NAME , DOCNAME)
                          (PRINT.OBJECT.CREATE.DATE , (OR (LISTGET OPTIONS (QUOTE
                                                                              DOCUMENT.CREATION.DATE
                                                                              ))
                                                           (IDATE))))
                  (SENDER.NAME , SENDER.NAME)
[SETQ PRINTOPTIONS (BQUOTE ((COPY.COUNT , (FIX (OR (LISTGET OPTIONS (QUOTE #COPIES))
                                                    1] (* This "option" seems to be required)
[COND
  ((SETQ VALUE (LISTGET OPTIONS (QUOTE RECIPIENT.NAME)))
   (push PRINTOPTIONS (LIST (QUOTE RECIPIENT.NAME)
                           (OR (STRINGP VALUE)
                               (MKSTRING VALUE))
[COND
  ((SETQ VALUE (LISTGET OPTIONS (QUOTE PRIORITY)))
   (push PRINTOPTIONS (LIST (QUOTE PRIORITY.HINT)
                           (SELECTQ VALUE
                                     ((HOLD LOW NORMAL HIGH)
                                     VALUE)
                                     (\ILLEGAL.ARG VALUE)
[COND
  ((SETQ VALUE (LISTGET OPTIONS (QUOTE MESSAGE)))
   (push PRINTOPTIONS (LIST (QUOTE MESSAGE)
                           (OR (STRINGP VALUE)
                               (MKSTRING VALUE))
[COND
  ((SETQ VALUE (LISTGET OPTIONS (QUOTE PAGES.TO.PRINT)))
   (* A page range to print, (first# last#))
   (COND
    ((AND (LISTP VALUE)
          (LISTP (CDR VALUE))
          (NULL (CDDR VALUE))
          (SMALLPOSP (CAR VALUE))
          (SMALLPOSP (CADR VALUE)))
     (push PRINTOPTIONS (LIST (QUOTE PAGES.TO.PRINT)
                             VALUE)))
    (T (\ILLEGAL.ARG VALUE]
[RETRY
  (COND
   ((NOT (SETQ COURIERSTREAM (\NSPRINT.COURIER.OPEN PRINTER)))
    (printout PROMPTWINDOW .TAB0 0 "No response from printer " (fetch NSPRINTERNAME of PRINTER))
    (DISMISS 5000)
    (GO RETRY)))
  (RESETSAVE NIL (LIST (FUNCTION \SPP.RESETCLOSE)
                       COURIERSTREAM)
                (* Check the status of the printer.)
  (bind (LASTSTATUS _ 0) do (SETQ STATUS (COURIER.CALL COURIERSTREAM (QUOTE PRINTING)
                                                                (QUOTE GET.PRINTER.STATUS)
                                                                (QUOTE RETURNERRORS)))
        [COND
          ((EQ (CAR STATUS)
               (QUOTE ERROR))
           (COND
            ((NOT (EQUAL STATUS LASTSTATUS))
```

```

(printout PROMPTWINDOW T "[From " (fetch NSPRINTERNAME of PRINTER)
  " Error: "
  (SUBSTRING (CDR STATUS)
    2 -2)
  "; will retry]"))
  (* Wait longer for this problem)
(DISSMISS 30000))
((NEQ (SETQ STATUS (CADR (ASSOC (QUOTE SPOOLER)
  STATUS)))
  LASTSTATUS)
(SELECTQ STATUS
  (Available (RETURN))
  (Busy (printout PROMPTWINDOW T "[From " (fetch NSPRINTERNAME
    of PRINTER)
    " Status: Spooler busy; will retry]"))
  (ERROR "Printer spooler" STATUS]
(SETQ LASTSTATUS STATUS)
(DISSMISS 5000))

[COND
  ((OR MEDIUM STAPLE? TWO.SIDED?) (* Check that the printer supports these options.)
  (SETQ PROPERTIES (COURIER.CALL COURIERSTREAM (QUOTE PRINTING)
    (QUOTE GET.PRINTER.PROPERTIES)
    (QUOTE RETURNERRORS)))

  (COND
    ((EQ (CAR PROPERTIES)
      (QUOTE ERROR))
      (SETQ STATUS PROPERTIES)
      (GO HANDLE.ERROR)))

  [COND
    (MEDIUM (COND
      ((SETQ VALUE (\NSPRINT.MEDIUM.CHECK MEDIUM (CADR (ASSOC (QUOTE MEDIA)
        PROPERTIES))
        PRINTER))
      (push PRINTOPTIONS (LIST (QUOTE MEDIUM.HINT)
        VALUE))
      (SETQ MEDIUM]

  [COND
    (STAPLE? (COND
      ((CADR (ASSOC (QUOTE STAPLE)
        PROPERTIES))
      (push PRINTOPTIONS (LIST (QUOTE STAPLE)
        T))
      (SETQ STAPLE?))
      (T (printout PROMPTWINDOW .TAB0 0 "[Printer does not support stapled copies]"))

  (COND
    (TWO.SIDED? (COND
      ((CADR (ASSOC (QUOTE TWO.SIDED)
        PROPERTIES))
      (push PRINTOPTIONS (QUOTE (TWO.SIDED T)))
      (SETQ TWO.SIDED?))
      (T (printout PROMPTWINDOW .TAB0 0 "Printer does not support two-sided copies"]

  (* * Finally, send the print document)

  (SETQ STATUS (COURIER.CALL COURIERSTREAM (QUOTE PRINTING)
    (QUOTE PRINT)
    TRANSFERFN ATTRIBUTES PRINTOPTIONS (QUOTE RETURNERRORS)))

  (COND
    ((NEQ (CAR STATUS)
      (QUOTE ERROR))
      (RETURN STATUS)))

HANDLE.ERROR
  (ERROR (CONCAT "Unexpected error from " (fetch NSPRINTERNAME of PRINTER)
    " attempting to print " DOCNAME "
    RETURN to try again.")
  (CDR STATUS))
  (CLOSEF COURIERSTREAM)
  (GO RETRY])

)

(DECLARE: EVAL@COMPILE DONTVAL@LOAD DONTCOPY

(FILELOAD (LOADCOMP)
  NSPRINT)

)

(PUTPROPS PATCH-TWOSIDED COPYRIGHT ("Xerox Corporation" 1986 1987))

```

FUNCTION INDEX

\NSPRINT.INTERNAL1
