```
(RPAQQ CALENDARHACKSCOMS
    (;; Hacks for making reminder-book pages for calendars.

    (FILES CALENDAR)
    (COMS ;; User level functions

        (FNS PRINT-LAND-MONTH PRINT-LAND-YEAR PRINT-NOTEBOOK-MONTH PRINT-NOTEBOOK-YEAR PRINT-SUMMARY-YEAR
            PRINT-NARROW-MONTH))
    (COMS ;; Internal functions and macros

        (FNS PRINT-SCALED-MONTH PRINTMONTHIMAGE)
        (FUNCTIONS CAL-X CAL-Y))))
```

;; Hacks for making reminder-book pages for calendars.

```
(FILESLOAD CALENDAR)
```

;; User level functions

```
(DEFINEQ

(PRINT-LAND-MONTH
  (LAMBDA (MONTH YEAR STREAM)                               ; Edited 17-Oct-87 17:45 by jds

    ;; Print a single month's calendar landscape on letter paper.

    (LET ((PRINTSTREAM (OR STREAM (OPENIMAGESTREAM "{LPT}" 'INTERPRESS '(LANDSCAPE T)))))
         (PRINT-SCALED-MONTH MONTH YEAR 635 635 1.0 1.0 PRINTSTREAM 12 18 6)
         (CLOSEF PRINTSTREAM)))))

(PRINT-LAND-YEAR
  (LAMBDA (YEAR STREAM)                                     ; Edited 17-Oct-87 17:49 by jds

    ;; Print a single month's calendar landscape on letter paper.

    (LET ((PRINTSTREAM (OR STREAM (OPENIMAGESTREAM "{LPT}" 'INTERPRESS '(LANDSCAPE T)))))
         (|for| MONTH |from| 1 |to| 12 |do| (PRINT-SCALED-MONTH MONTH YEAR 635 635 1.0 1.0 PRINTSTREAM 12 18 6)
                                           (DSPNEWPAGE PRINTSTREAM))
         (CLOSEF PRINTSTREAM)))))

(PRINT-NOTEBOOK-MONTH
  (LAMBDA (MONTH YEAR STREAM)                               ; Edited 17-Sep-87 21:55 by jds

    ;; Print a single month's calendar on a half-sheet, suitable for punching and putting in a Time-Design notebook or a 5 1/2 x 8 1/2" reminder book.

    ;; If you leave STREAM NIL, you'll get one page on the printer.

    (PRINT-SCALED-MONTH MONTH YEAR 0 0 0.75 0.6 STREAM)))

(PRINT-NOTEBOOK-YEAR
  (LAMBDA (YEAR STREAM)                                     ; Edited 23-Mar-94 17:22 by turpiN:mv:envos

    ;; Print a year's worth of month-calendar pages in half-sheet size.

    (LET ((PRINTSTREAM (OR STREAM (OPENIMAGESTREAM "{LPT}" 'POSTSCRIPT))))
         (|for| MONTH |from| 1 |to| 12 |do| (PRINT-SCALED-MONTH MONTH YEAR 0 (COND
                                                                    ((EVENP MONTH 2)
                                                                     13970)
                                                                    (T 0))
                                                 0.75 0.6 PRINTSTREAM)
                                           (COND
                                             ((EVENP MONTH 2)
                                              (DSPNEWPAGE PRINTSTREAM))))
         (CLOSEF PRINTSTREAM)))))

(PRINT-SUMMARY-YEAR
  (LAMBDA (YEAR STREAM)                                     ; Edited 23-Mar-94 17:36 by turpiN:mv:envos

    ;; Print a year's worth of small months on 1 sheet of paper that will fit into a 8.25 x 10.5 format (for Time-Design books).

    (LET ((PRINTSTREAM (OR STREAM (OPENIMAGESTREAM "{LPT}" 'POSTSCRIPT '(LANDSCAPE T)))))
         (|for| MONTH |from| 1 |to| 4 |as| YOFFSET |from| 44500 |by| -14800
            |do| (PRINT-SCALED-MONTH MONTH YEAR 227 YOFFSET 0.33 0.23 PRINTSTREAM 6 8 6))
         (|for| MONTH |from| 5 |to| 8 |as| YOFFSET |from| 44500 |by| -14800
```

```
                |do|  (PRINT-SCALED-MONTH MONTH YEAR 25427 YOFFSET 0.33 0.23 PRINTSTREAM 6 8 6))
          (|for| MONTH |from| 9 |to| 12 |as| YOFFSET |from| 44500 |by| −14800
                |do|  (PRINT-SCALED-MONTH MONTH YEAR 50627 YOFFSET 0.33 0.23 PRINTSTREAM 6 8 6))
          (CLOSEF PRINTSTREAM))))
```

(**PRINT-NARROW-MONTH**

```
    (LAMBDA (MONTH YEAR STREAM)                                           ; Edited 17-Sep-87 22:32 by jds
      (PRINT-SCALED-MONTH MONTH YEAR 0 0 0.45 0.95 STREAM NIL NIL NIL '(LANDSCAPE T))))
```

)

;; Internal functions and macros

(DEFINEQ

(**PRINT-SCALED-MONTH**

```
    (LAMBDA (MONTH YEAR X-OFFSET Y-OFFSET X-SCALE Y-SCALE STREAM DAYSIZE DATESIZE TINYSIZE OPTIONS)
                                                                          ; Edited 23-Mar-94 17:24 by turpiN:mv:envos
```

;; Print a month's calendar on STREAM. MONTH is a number 1-12, Year is the year, 19-- and all.

```
      (PROG ((STREAM-EXISTED STREAM)
              PBIGFONT PCALFONT PLITTLEFONT)
            (SETCURSOR WAITINGCURSOR)
            (PRINTOUT PROMPTWINDOW T "Formatting for print...")
            (SETQ STREAM (OR STREAM (OPENIMAGESTREAM "{LPT}" 'POSTSCRIPT OPTIONS)))
            (SETQ PBIGFONT (FONTCREATE 'MODERN (OR DAYSIZE 8)
                                  NIL 0 STREAM))
            (SETQ PCALFONT (FONTCREATE 'CLASSIC (OR DATESIZE 12)
                                  NIL 0 STREAM))
            (SETQ PLITTLEFONT (FONTCREATE 'MODERN (OR TINYSIZE 6)
                                    NIL 0 STREAM))
            (PRINTMONTHIMAGE MONTH YEAR STREAM X-OFFSET Y-OFFSET X-SCALE (OR Y-SCALE X-SCALE)
                   PBIGFONT PCALFONT PLITTLEFONT)                  ; Print horizontal lines
            (OR STREAM-EXISTED (CLOSEF STREAM))
            (PRINTOUT PROMPTWINDOW "done." T)
            (CURSOR T))))
```

(**PRINTMONTHIMAGE**

```
    (LAMBDA (MONTH YEAR STREAM XOFFSET YOFFSET X-SCALE Y-SCALE DAYFONT DATEFONT TINYDATEFONT)
                                                                          ; Edited 23-Mar-94 17:42 by turpiN:mv:envos
```

;; Print a month's calendar on STREAM. MONTH is a number 1-12, Year is the year, 19-- and all.

;; X-SCALE & XOFFSET, and Y-SCALE & YOFFSET are used in the CAL-X and CAL-Y macros, resp.

;; DAYFONT and DATEFONT are used for printing the day names and dates/month title resp.

```
      (DSPRESET STREAM)
      (DSPRIGHTMARGIN 65535 STREAM)
      (LET ((TITLESTRING (CONCAT (MONTHNAME MONTH)
                                 "    " YEAR)))
           (MOVETO (− (CAL-X 37559)
                      (IQUOTIENT (STRINGWIDTH TITLESTRING DATEFONT)
                            2))
                 (CAL-Y 57827)
                 STREAM))
      (DSPFONT DATEFONT STREAM)
      (PRINTOUT STREAM (MONTHNAME MONTH)
            "   " YEAR)
      (LET ((DAYLABELS (APPEND (|for| N |from| 1 |to| (DAYOF MONTH 1 YEAR) |collect| '\ )
                               (|for| N |from| 1 |to| (DAYSIN MONTH YEAR) |collect| N)))
            (X 1559)
            (Y 47339)
            (CT 0))
           (|for| I |in| DAYLABELS |do|
```
;; Print blanks up to the first day of the month (to allow for not starting on Sunday), then print the dates.
```
                                    (MOVETO (CAL-X X)
                                            (CAL-Y Y)
                                            STREAM)
                                    (PRIN1 I STREAM)
                                    (|add| X 10630)
                                    (|add| CT 1)
                                    (COND
                                       ((EQ (IREMAINDER CT 7)
                                            0)
                                        (SETQ X 1701)
                                        (|add| Y −8974)))))
      (|for| X |from| 850 |to| 75968 |by| 10630 |do|
```
;; Print vertical lines
```
                                    (DRAWLINE (CAL-X X)
                                            (CAL-Y 1701)
                                            (CAL-X X)
                                            (CAL-Y 55559)
                                            40
                                            'PAINT STREAM))
      (|for| Y |from| 1701 |to| 55559 |by| 8974 |do|
```
;; Print horizontal lines

```
                                        (DRAWLINE (CAL-X 850)
                                                 (CAL-Y Y)
                                                 (CAL-X 75260)
                                                 (CAL-Y Y)
                                                 40
                                                 'PAINT STREAM))
        (DSPFONT DAYFONT STREAM)
        (|for| X |from| 2268 |to| 72567 |by| 10630 |as| D |from| 0 |to| 6 |do|   ;; Print day names

                                           (MOVETO (CAL-X X)
                                                   (CAL-Y 56126)
                                                   STREAM)
                                           (PRIN1 (DAYNAME D)
                                                  STREAM))
        (COND
           ((>= X-SCALE 0.7)
            (DSPFONT PLITTLEFONT STREAM)
            (SHOWMONTHSMALL (MONTHPLUS MONTH -1)
                   (MONTHYEARPLUS MONTH YEAR -1)
                   (CAL-X 54709)
                   (CAL-Y 2693)
                   (FTIMES X-SCALE 28.0)
                   STREAM)
            (SHOWMONTHSMALL (MONTHPLUS MONTH 1)
                   (MONTHYEARPLUS MONTH YEAR 1)
                   (CAL-X 65480)
                   (CAL-Y 2693)
                   (FTIMES X-SCALE 28.0)
                   STREAM)))
        STREAM))

)


(DEFMACRO CAL-X (VALUE)
    `(+ XOFFSET (FIXR (FTIMES ,VALUE X-SCALE))))


(DEFMACRO CAL-Y (VALUE)
    `(+ YOFFSET (FIXR (FTIMES ,VALUE Y-SCALE))))

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