```
/*
  utpdf/utps
  margin-aware converter from utf-8 text to PDF/PostScript

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*/

#include "utpdf.h"
#include "drawing.h"
#include "paper.h"
#include "usage.h"
#include "args.h"
#include "io.h"

int makepdf=1;
char *prog_name;

char *path2cmd(char *p){
    char *cur=p;
    while (*cur != '¥0') {
        if (*cur == '/') p=cur+1;
        cur++;
    }
    return p;
}

//
//
int main(int argc, char** argv){
    int fileindex;

    setlocale(LC_ALL, "");
    prog_name=path2cmd(argv[0]);
    makepdf = (strncmp(prog_name, MKPDFNAME, NAMELEN)==0);

    //
    // parse arguments
    //
    getargs(argc, argv);

    //
    // Draw each file
    //
    {
        // pcobj stuff (pcobj: pango_cairo_print_object)
        pcobj *obj=NULL;
        int out_fd, output_notspecified=(args->outfile==NULL);

        // for every inout file, do:
        for (fileindex = optind; fileindex < argc; fileindex++) {
            // input file stuff
            UFILE *in_f;
            int in_fd;
            struct stat stat_b;

            // get input filename
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69              args->in_fname = argv[fileindex];
70
71              // open input file
72              if (strncmp("-", args->in_fname, 3)==0){
73                  in_fd = STDIN_FILENO;
74                  args->in_fname="STDIN";
75                  args->current_t=1;
76              } else {
77                  in_fd = openfd(args->in_fname, O_RDONLY);
78              }
79              in_f = fdopen_u(in_fd, args->in_fname);
80
81              // create output file and surface
82              if (obj == NULL) {
83                  // new file
84                  if (makepdf) {
85                      // pdf
86                      if (output_notspecified) {
87                          static char outf_store[S_LEN];
88
89                          snprintf(outf_store, S_LEN, "%s.pdf", args->in_fname);
90                          args->outfile = outf_store;
91                      }
92                      if (strncmp(args->outfile, "-", S_LEN)==0) {
93                          out_fd = STDOUT_FILENO;
94                      } else {
95                          out_fd = openfd(args->outfile, O_CREAT|O_RDWR|O_TRUNC);
96                      }
97                      obj = pcobj_pdf_new
98                          ((cairo_write_func_t )write_func, (void *)&out_fd,
99                           args->pwidth, args->pheight);
100                 } else {
101                     // PostScript
102                     if (output_notspecified) {
103                         // write to STDOUT
104                         args->outfile="-";
105                         out_fd = STDOUT_FILENO;
106                     } else if (strncmp(args->outfile, "-", S_LEN)==0) {
107                         out_fd = STDOUT_FILENO;
108                     } else {
109                         out_fd = openfd(args->outfile, O_CREAT|O_WRONLY|O_TRUNC);
110                     }
111                     if (args->duplex) {
112                         if (args->force_duplex){
113                             obj = pcobj_ps_new
114                                 ((cairo_write_func_t )write_ps_duplex, (void *)&out_fd
    ,
115                                  args->phys_width, args->phys_height);
116                         } else {
117                             obj = pcobj_ps_new
118                                 ((cairo_write_func_t )write_func, (void *)&out_fd,
119                                  args->phys_width, args->phys_height);
120                         }
121                         cairo_ps_surface_dsc_comment
122                             (obj->surface, "%%Requirements: duplex");
123                         cairo_ps_surface_dsc_begin_setup(obj->surface);
124                         cairo_ps_surface_dsc_comment
125                             (obj->surface,
126                              "%%IncludeFeature: *Duplex DuplexNoTumble");
127                         // set orientation
128                         cairo_ps_surface_dsc_begin_page_setup (obj->surface);
129                         if (args->portrait) {
130                             cairo_ps_surface_dsc_comment
131                                 (obj->surface, "%%PageOrientation: Portrait");
132                         } else {
133                             cairo_ps_surface_dsc_comment
134                                 (obj->surface, "%%PageOrientation: Landscape");
135                         }
```

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136                     } else {
137                         // simplex printing
138                         obj = pcobj_ps_new
139                             ((cairo_write_func_t )write_func, (void *)&out_fd,
140                              args->pwidth, args->pheight);
141                         // set orientation
142                         cairo_ps_surface_dsc_begin_page_setup (obj->surface);
143                         if (args->portrait) {
144                             cairo_ps_surface_dsc_comment
145                                 (obj->surface, "%%PageOrientation: Portrait");
146                         } else {
147                             cairo_ps_surface_dsc_comment
148                                 (obj->surface, "%%PageOrientation: Landscape");
149                         }
150                     } // if (args->duplex) else
151                 } // if (makepdf) else
152                 // cr = cairo_create(surface);
153                 // obj = pcobj_new(cr);
154             } // if (surface == NULL)
155 
156             cairo_set_source_rgb(obj->cr, C_BLACK);
157 
158             if (args->current_t){
159                 time(args->mtime);
160             } else {
161                 if (fstat(in_fd, &stat_b)<0){
162                     perror("Could not fstat: ");
163                     exit(1);
164                 }
165                 *args->mtime = stat_b.st_mtime;
166             }
167 
168             //
169             draw_file(obj, in_f, args, (fileindex == (argc-1)));
170             //
171 
172             close_u(in_f);
173 
174             if (! args->one_output){
175                 // close output
176                 pcobj_free(obj);
177                 close(out_fd);
178                 obj=NULL;
179             } else {
180                 // if (fileindex < (argc-1)){
181                 //    cairo_show_page(cr); // new page for next file.
182                 //}
183             }
184         } // for (fileindex = optind; fileindex < argc; fileindex++) {
185 
186         if (args->one_output){
187             // close output
188             pcobj_free(obj);
189             close(out_fd);
190         }
191     }
192     exit(0);
193 }
194 
195 // end of utpdf.c
196 
```