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#!/bin/bash
# PDFcat 0.01 (c) 2000, 2001 by Helmar Wodtke
BASENAME=`basename $0`
TMPFILE="$BASENAME.T$$T"
VARFILE="$BASENAME.V$$V"

AWK="awk"

$AWK 'BEGIN {
    on=2
    varfile="'"$VARFILE"'"
    print "%PDF-1.0"
    print "%\344\366\374\304\326\334\337"
    tstream()
}
function tabs(s) {
    tn = split(s, ta, /\t/); tr = ""
    for (i=1; i<tn; i++) {
        tr = tr"ta[i]
        tr = tr"substr("          ", 1, 8-length(tr)%8)
    }
    return tr"ta[i]
}
function outs(s) {
    text[++lp] = s"\n";
    size += length(text[lp])
}
function out(s) {
    gsub(/\(\)\[\]\|/, "\\&", s)
    outs("("s") '\''");
}
function tstream() {
    line=size=lp=0;
    outs("BT")
    outs("/F1 10 Tf 12 TL")
    outs("82 817 Td")
}
/\14/ {page(); next}
{gsub("\.b", ""); out(tabs($0)); if (++line==66) page()}
function page() {
    outs("ET")
    print on++" 0 obj"
    print "<<"
    print "/Type /Page"
    print "/Parent 1 0 R"
    print "/Contents "on" 0 R"
    print ">>"
    print "endobj"
    print on" 0 obj"
    print "<< /Length "size" >>"
    print "stream"
    for (i=1; i<=lp; i++) printf("%s", text[i]);
    print "endstream"
    print "endobj"
    on++;
    tstream()
}
END {
    if (line) page()
    pages=on/2-1
    print (font=on++)" 0 obj"
    print "<<"
    print "/Type /Font"
    print "/Subtype /Type1"
    print "/Name /F1"
    print "/BaseFont /Courier"

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print "/Encoding /WinAnsiEncoding"
print ">>"
print "endobj"
print "1 0 obj"
print "<<"
print "/Type /Pages"
print "/Resources <<"
print "  /Font << /F1 "font" 0 R >>"
print "  /ProcSet [ /PDF /Text ]"
print ">>"
print "/MediaBox [0 0 595 842]"
print "/Count "pages
print "/Kids ["
for (i=1; i<=pages; i++) print i*2" 0 R"
print "]"
print ">>"
print "endobj"
print (root=on++)" 0 obj"
print "<<"
print "/Type /Catalog"
print "/Pages 1 0 R"
print ">>"
print "endobj"
print "OBJN="on >varfile
print "ROOT="root >>varfile
}' "$@" >"$TMPFILE"
. "$VARFILE"
PUTXREF='END {
    printf("0 %d\n", max+1)
    for (i=0; i<=max; i++)
        if (tab[i]!="") printf("%010d 00000 n \n", tab[i]);
        else print "0000000000 65535 f "}'
XREF=`cat "$TMPFILE" | grep -b '^[0-9][0-9]* [0-9][0-9]* obj$' | \
$AWK -F "[: ]" '
    BEGIN {max=0}
    {tab[$2]=$1; if ($2>max) max=$2}
    '$PUTXREF'`
cat "$TMPFILE" - <<EOF
xref
$XREF
trailer
<<
/Size $OBJN
/Root $ROOT 0 R
>>
startxref
`ls -l "$TMPFILE" | $AWK '{printf $5}'`
%%EOF
EOF
rm -f "$TMPFILE" "$VARFILE"

```