Figure 23 — Processing flow of the DSSSL library

The DSSSL library consists of the simple parameter data and the following 4 files:

a) full parameter generator

b) function set

c) page model set

d) flow object construction rules

5.1.1 Simple parameter data

The simple parameter data are provided in a form of association list for the full parameter generator. The parameter data are listed in 5.2.

The simple parameter data are default values for a typical composition style. If necessary, some parameter data can be added to the simple parameter data.

5.1.2 Full parameter generator

Full parameter generator creates, on a Scheme processor, full parameters being based on the simple parameter data.

5.1.3 Function set

The function set includes DSSSL flow object generating functions and their support functions used in the construction rules in DSSSL specifications. The full parameters are referred to by those functions.

5.1.4   Page model set

The page models are DSSSL descriptions of page styles. The full parameters are referred to by those page models.

5.1.5   Flow object construction rules

The construction rules provide actual DSSSL specifications for a specific DTD, using the full parameters, function set and page model set. Clause 9 shows the construction rules for HTML 3.2 DTD.

5.2   Simple parameter data

NOTE   Default unit of length is mm.

paper-name paper size description (string, default "a4")

paper-direction
paper direction string: "portrait"/"landscape")(default "portrait")

writing-direction
writing direction (string: "horizontal"/"vertical")(default "horizontal")

paper-width
paper width ([mm] : *paper-name* dependent)

paper-height
paper length ([mm]: *paper-name* dependent)

column-number
number of columns (number)(default 1)

base-font-size
base font size ([mm])

standard-composition
image area specification (string)

page-spec
basic page specification list (list of body font size, number of character in line, lines in page, line width, column number, space between column)

page-region-width
image area width ([mm])

page-region-height
image area height ([mm])

area-x-ratio
area vertical ratio of image area (0.0 through 1.0)(default 0.5)

area-y-ratio
area horizontal ratio of image area (0.0 through 1.0)(default 0.5)

page-region-x-offset
page region horizontal offset

page-region-y-offset
page region vertical offset