

## 5 Configuration of DSSSL Library

The DSSSL library makes it feasible to describe DSSSL specifications required for complicated compositions. Configuration of the DSSSL library is shown in clause 5, and contents of the files of which the library consists are listed in clause 6 through 9.

### 5.1 Processing flow

The configuration and processing flow of DSSSL library is shown in Figure 5.1. In order to use the DSSSL library, Scheme processor and DSSSL processor have to be available.

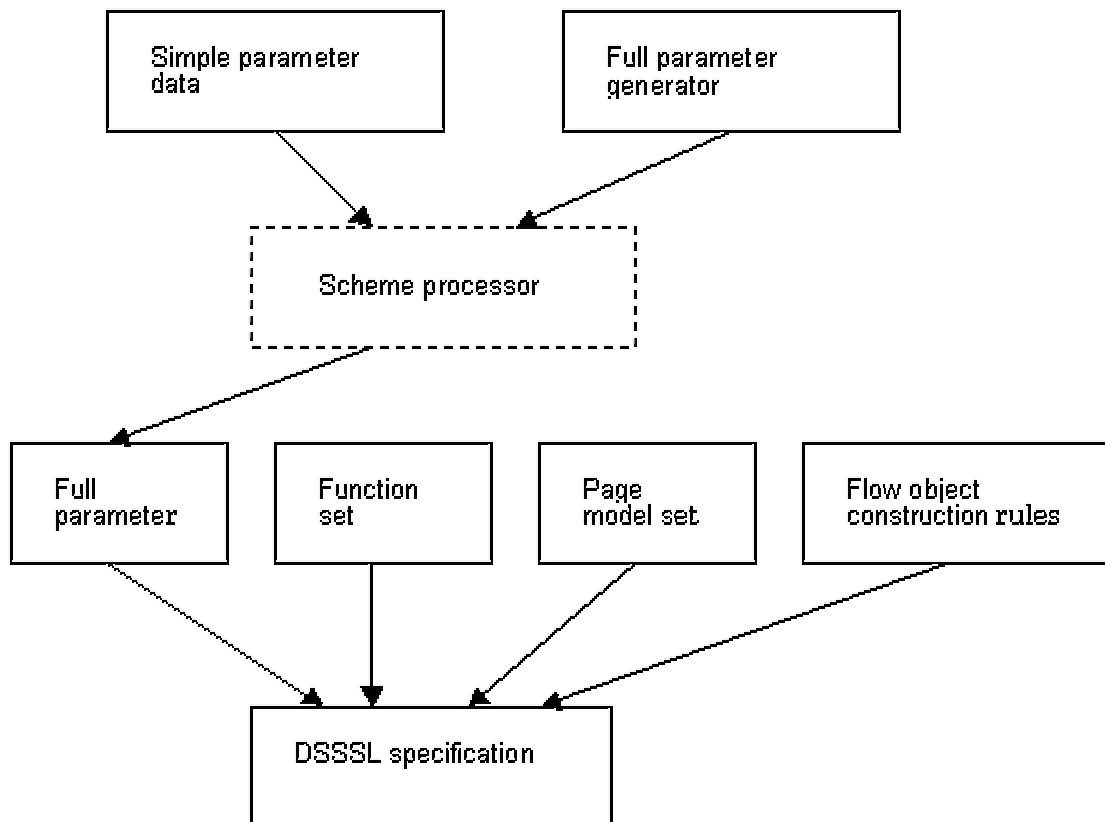


Figure 5.1 — Processing flow of the DSSSL library

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

\*font-table\*

font information table of heading font (list)

\*ruby-font-size-factor\*

ruby font size ratio from base font size (0.0 through 1.0)(default 0.5)

\*subscript-font-size-factor\*

subscript font size ratio from base font size (0.0 through 1.0)(default 0.3)

\*superscript-font-size-factor\*

superscript font size ratio from base font size (0.0 through 1.0)(default 0.3)

\*base-font-family\*

base font family specification (default "mincho-light, sans-medium")

\*indentation-factor\*

number of characters of indentation of paragraph (default 1)

\*indent-factor\*

number of characters of indentation of ordered list (default 2)

\*has-header-page-number\*

existence of page number at top edge (#t/#f)(default #t)

\*has-header-headline\*

existence of headline at top edge (#t/#f)(default #t)

\*has-footer-page-number\*

existence of page number at tail edge (#t/#f)(default #f)

\*has-footer-headline\*

existence of headline at tail edge (#t/#f)(default #f)

\*headline-rect\*

headline string of rect page (string)

\*headline-verso\*

headline string of verso page (string)

\*footnote-number-desc\*

number description of foot note (string)

\*enum-number-desc\*

top character of ordered list (string)

\*title-number-desc\*

heading number description (string)