DocBook to LaTeX Publishing

User Manual

Ref A1 Ed. 02

COLLABORATORS

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NUMBER	DATE	DESCRIPTION	NAME
01	2009/05/05	The manual does not include the change history anymore. The change history is now in the release note. The XSL Parameters are now described as reference entries.	B. Guillon
02	2009/06/21	Add a section about the new set support, and a section about how to extend the verbatim rendering.	B. Guillon

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Chapter 1

Documentation

1.1 Reference

[TDG] Norman Walsh and Leonard Muellner, *DocBook: The Definitive Guide*, Copyright © 1999, 2000, 2001 O'Reilly & Associates, Inc., 156592-580-7, O'Reilly.

Chapter 2

Introduction

2.1 What about DB2LaTeX?

Dblatex started as a DB2LaTeX clone, but since then many things have changed and new features have been added or (hopefully) improved. Now, the portion of shared code is small if any, and the dblatex purpose is different from DB2LaTeX on these points:

- The project is end-user oriented, that is, it tries to hide as much as possible the latex compiling stuff by providing a single clean script to produce directly DVI, PostScript and PDF output.
- The actual output rendering is done not only by the XSL stylesheets transformation, but also by a dedicated LaTeX package. The goal is to allow a deep LaTeX customisation without changing the XSL stylesheets.
- Post-processing is done by Python, to make publication faster, convert the images if needed, and do the whole compilation.

2.2 Features

With dblatex you can:

- transform a DocBook XML/SGML book or article to pure LaTeX,
- compile the temporary LaTeX file with latex, pdflatex, or xelatex to produce DVI, PostScript and PDF files,
- publish a set of books,
- convert on the fly the figures included in the document,
- have cross references with hot links,
- olink to other documents built with **dblatex**,
- write complex tables,
- write several bibliographies,
- reuse BibTeX bibliographies,
- use callouts on program listings or on images,
- · create an index,
- write mathematical equations in LaTeX,
- write mathematical equations in MathML,

- · have revision bars,
- customise the output rendering with an XSL configuration file,
- use your own LaTeX style package.

2.3 Version

This manual is for dblatex version devel.

2.4 Change History

See the Release Notes in Release Notes for dblatex to have the dblatex change history.

2.5 Publishing Principles

Dblatex transforms a DocBook XML/SGML document to LaTeX. Once transformed into LaTeX, standard LaTeX tools are used to produce DVI, Postcript or PDF files.

Figure 2.1 explains the process applied. It shows the tools used and the steps. The emphasized tools are provided by the package.

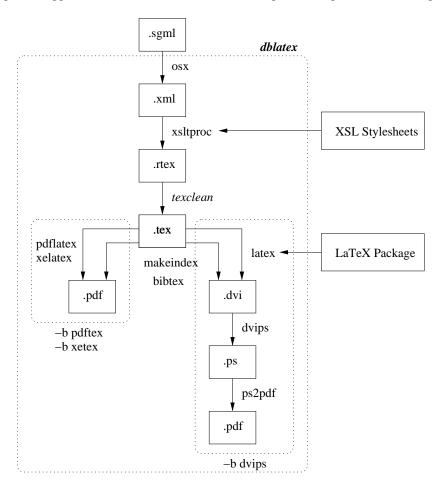


Figure 2.1: Transforming Process

2.5.1 Backend Drivers

The main script supports the following LaTeX backend drivers:

dvips

The driver calls **latex**, and produces DVI, Postscript and at the end PDF files. Latex natively accepts only EPS graphics. The drawback is that converting to PDF can take a while.

pdftex

The driver calls **pdflatex**, to directly produce PDF files. The conversion is fast, the file size is smaller. Pdflatex natively accepts PDF, PNG, JPEG, and TIFF graphics.

xetex

The driver calls **xelatex**, to directly produce PDF files through the XeTeX engine. This engine natively supports UTF-8 which improves multilingual support.

2.5.2 XSL Stylesheets

The XSL stylesheets located under xsl are used to transform from XML to "raw" LaTeX. The main file is $latex_book_fast.xsl$, that includes the other stylesheets of the directory.

2.5.3 Python Post Processing

Actually the XSL stylesheets does not produce valid LaTeX. The reason is that some DocBook processing is too complex or too time-consuming for XSL transforming. Besides, some extra actions need sometimes to be done such like figure conversion. Here are the main actions done by Python Post processing:

- Transform the entities to valid LaTeX characters (e.g. is transformed to '~'). Python is suited and performant for this task
- Convert the figures to be compatible with the backend driver. See Section 4.4 for more detail.
- Force some hyphenation in tables or for typed words.
- Do the whole LaTeX compilation sequence thanks to the rubber compilation engine.

2.5.4 LaTeX Style Package

Once valid LaTeX is available, the LaTeX style package (docbook.sty) under latex/style/ is used to customize the output rendering. It includes the other files of the directory. You can also provide your own LaTeX style (cf. Chapter 5).

Chapter 3

Installing the Package

3.1 Content

The package contains the following:

docs/

Contains the files of this document.

latex/

Contains all the latex stuff: LaTeX style files, logos, and scripts to compile the LaTeX output.

scripts/

Several scripts, including the main script of the package.

xsl/

XSL stylesheets.

tests/

Test files.

3.2 Installing on Unix like Systems

3.2.1 Dblatex Packages

Dblatex is packaged for these Systems or Distributions:

- Linux Debian, Ubuntu,
- Linux OpenSUSE (RPM), Linux Fedora (RPM),
- FreeBSD, NetBSD,
- Mac OS X (Fink).

If you are installing on one of these distributions, follow their recommended way of installation, and you can safely ignore the next sections that give details for installing dblatex from the source tarball.

3.2.2 Dependencies

To work, the following items must be available:

- An XSLT. xsltproc is the default XSLT used, but one can also use 4suite.
- The XML DocBook DTD.
- A recent LaTeX distribution. The configure script checks that the needed latex packages are available.
- Python >= 2.4.

3.2.3 Installation

3.2.3.1 Installing the dependencies

To use the package, install properly the dependencies:

- 1. Install Python if necessary.
- 2. Install LaTeX.
- 3. Install the XSLT. By default xsltproc is used.
- 4. Install the XML DocBook DTD.
- 5. Create a catalog file, that defines where to find the DTD. Here is an example:

```
PUBLIC "-//OASIS//DTD DocBook XML V4.1.2//EN"

"file:///usr/local/share/xml/docbook/dtd/4.1.2/docbookx.dtd"
```

If the XML Gnome tools are available, it's a good idea to create an XML catalog by using xmlcatalog such like this:

6. Add the catalog path to the SGML_CATALOG_FILES variable:

```
export SGML_CATALOG_FILES=$SGML_CATALOG_FILES:/path/to/mycatalog
```

You can skip this step if you configure the dblatex installation with the --catalogs option.

3.2.3.2 Installing the tool

The steps to follow are the following:

1. Untar the ball. For a bzipped release, do as follow:

```
% tar xvfj dblatex-x.x.x.tar.bz2
```

For a gzipped release, do as follow:

```
% tar xvfz dblatex-x.x.x.tar.gz
```

2. Install the package. The installation script preliminary checks the dependencies. In the example, the dblatex script is installed under /usr/local/bin and the other files are installed under /usr/local/share/dblatex. Besides, the --catalogs option tells where to find the catalogs.

```
% cd dblatex-x.x.x
% python ./setup.py install --prefix=/usr/local --catalogs=/path/to/mycatalog
```

3.3 Installing on Windows

The following packages to install and the procedure is for a native Windows installation. If you want to use dblatex via Cygwin instead, you should consider it like a unix like install.

3.3.1 Dependencies

The following applications are required:

- An XSLT. xsltproc is the default XSLT used, but one can also use 4suite.
- The XML DocBook DTD.
- MiKTeX > 2.5.
- Python >= 2.4.

3.3.2 Installation

3.3.2.1 Installing xsltproc

You can download the binaries and getting the installation instructions from: http://www.zlatkovic.com/libxml.en.html.

3.3.2.2 Installing MiKTeX

Install the minimal distribution, and add the following packages: changebar, colortbl, fancybox, fancyhdr, fancyvrb, listings, overpics, rotating, subfigure, titlesec, bibtopic, enumitem, eepic, lm, lastpage, helvetic, times, symbol, courier, footmisc, ifxetex, pdfpages, wasysym.

3.3.2.3 Installing dblatex

From the unpacked package directory just type:

```
python setup.py install
```

If the Python directory is C:\Python25 you can now try **dblatex** by typing:

python C:\Python25\Scripts\dblatex file.xml

Chapter 4

Using dblatex

4.1 Reference

dblatex

dblatex — convert DocBook to LaTeX, DVI, PostScript, and PDF

Synopsis

dblatex[options]{file|-}

Description

dblatex is a program that transforms your SGML/XML DocBook documents to DVI, PostScript or PDF by translating them into pure LaTeX as a first process. MathML 2.0 markups are supported, too.

Options

A summary of options is included below.

-h, --help

Show a help message and exit.

-b backend, --backend=backend

Backend driver to use: pdftex (default), dvips, or xetex. See also Section 2.5.1.

-B, --no-batch

All the tex output is printed.

-c config,-S config,--config=config

Configuration file. A configuration file can be used to group all the options and customizations to apply. See Section 5.6.

-d, --debug

Debug mode: Keep the temporary directory in which dblatex actually works. Section 5.4.5 explains how you can use it.

-D, --dump

Dump the error stack when an error occurs (debug purpose).

-f figure_format, --fig-format=figure_format

Input figure format: fig, eps. Used when not deduced from figure file extension. See also Section 4.4.2.

-F input_format, --input-format=input_format

Input file format: sgml, xml (default).

-i texinputs, --texinputs texinputs

Path added to TEXINPUTS

-I figure_path, --fig-path=figure_path

Additional lookup path of the figures. See Section 4.4.3.

-1 bst_path, --bst-path=bst_path

Additional lookup path of the BibTeX styles. See Section 4.9.2.

-L bib_path, --bib-path=bib_path

Additional lookup path of the BibTeX databases. See Section 4.9.2.

-m xslt, --xslt=xslt

XSLT engine to use. The available engines are: xsltproc (default), 4xslt.

-o output, --output=output

Output filename. When not specified, the input filename is used, with the suffix of the output format. The option is ignored if several books are chunked from a set. In this case the -0 option is applied instead.

-O output_dir, --output-dir=output_dir

Output directory of the books built from a set. When not specified, the current working directory is used instead. The option is ignored if a single document is outputed, and the $-\circ$ is taken into account.

-p xsl_user, --xsl-user=xsl_user

An XSL user stylesheet to use. Several user stylesheets can be specified, but the option order is meaningful. See Section 5.1.

-P param=value, --param=param=value

Set an XSL parameter from command line. See Section 5.2.

-r script, --texpost=script

Script called at the very end of the tex compilation. Its role is to modify the tex file or one of the compilation files before the last round. See Section 5.5.

-s latex_style, --texstyle=latex_style

Latex style to apply. It can be a package name, or directly a latex package path. A package name must be without a directory path and without the '.sty' extension. On the contrary, a full latex package path can contain a directory path, but must ends with the '.sty' extension. See Section 5.4.

-t format, --type=format

Output format. Available formats: tex, dvi, ps, pdf (default).

--dvi

DVI output. Equivalent to -tdvi.

--pdf

PDF output. Equivalent to -tpdf.

--ps

PostScript output. Equivalent to -tps.

-T style, --style=style

Output style, predefined are: db21atex, simple, native (default). See Section 4.2.

-v, --version

Display the dblatex version.

-V,--verbose

Verbose mode, showing the running commands

-x xslt_options, --xslt-opts=xslt_options

Arguments directly passed to the XSLT engine

-X, --no-external

Disable the external text file support. This support is needed for callouts on external files referenced by textdata or imagedata, but it can be disabled if the document does not contain such callouts. Disabling this support can improve the processing performance for big documents.

Files and Directories

\$HOME/.dblatex/

User configuration directory.

/etc/dblatex/

System-wide configuration directory.

The predefined output styles are located in the installed package directory.

Environment Variables

DBLATEX_CONFIG_FILES

Extra configuration directories that may contain some dblatex configuration files.

Examples

To produce myfile.pdf from myfile.xml:

```
dblatex myfile.xml
```

To set some XSL parameters from the command line:

```
dblatex -P latex.babel.language=de myfile.xml
```

To use the db2latex output style:

```
dblatex -T db2latex myfile.xml
```

To apply your own latex style:

```
dblatex -s mystyle myfile.xml
dblatex -s /path/to/mystyle.sty myfile.xml
```

To use **dblatex** and profiling:

To build a set of books:

```
dblatex -0 /path/to/chunk/dir -Pset.book.num=all myfile.xml
```

4.2 Output Formatting Style

The output rendering done by **dblatex** can be widely customized like explained in Chapter 5. By default several rendering styles are provided, that one can choose by using the option -T (see Example 4.1). The available styles are:

native

The rendering uses the default LaTeX stylesheets. It is the style used by default if dblatex has been configured without using the option --style.

simple

The rendering is very close to original latex rendering. The wrapper around the default latex packages is very thin.

db2latex

The rendering tries to be as close as possible to the DB2LaTeX formatting.

Example 4.1 Choosing the DB2LaTeX style

```
dblatex -T db2latex file.xml
```

4.2.1 How it works

The rendering style stuff is under the latex/ directory. You can see the XSL stylesheets under xsl/ as the way to produce latex with as little as possible docbook specific things (even if a large amount of latex packages are used to do the work). Then, it's up to LaTeX stylesheets to format the document as you wish.

The organization under latex/ is as follow:

contrib

Contains the non-default available LaTeX stylesheets (simple and db2latex).

graphics

Default graphics used in the admonitions (e.g. warning). These graphics are used by the default output formatting.

scripts

Scripts used to compile with latex or pdflatex.

specs

Contains all the specification files describing the available styles. A specification file must have the extension .specs to be detected as a style description, and its basename is the name of the style. For example the style db2latex is described by the specification file db2latex.specs.

When **dblatex** is executed with no parameter, the usage is displayed. In particular, the list of the available styles is given, like this:

```
$ dblatex
dblatex [options] file.{sgml|xml}
Options:
-t {pdf|ps|dvi|tex|xml}: output format
...
-T style : available latex styles (db2latex, native, simple)
```

The list is built by scanning the specs files found under specs/. The spec file syntax is described in Section 5.6.

style

Default LaTeX stylesheets.

4.2.2 Adding a New Formatting Style

To add a new formatting style, do the following steps:

1. Let's create the style directores that will contain all the specific data. We choose to put them under the default **dblatex** user configuration directory.

```
$ mkdir -p $HOME/.dblatex/mystyle/latex
$ mkdir -p $HOME/.dblatex/mystyle/xsl
```

Note that you could choose another configuration directory (see Section 5.6.2 for more details).

- 2. Create the latex stylesheets you need. It must define the expected DocBook interface and include some core definitions from the default latex stylesheets (cf. Section 5.4). Create also your XSL stylesheet if necessary.
- 3. Put these files under the appropriate directories:

```
$ mv mytexstyle.sty $HOME/.dblatex/mystyle/latex/.
$ mv param.xsl $HOME/.dblatex/mystyle/xsl/.
```

4. Create a configuration file under the directory \$HOME/.dblatex. The specification file must point to the new latex stylesheet, and give the specific parameters. Example:

```
$ cat $HOME/.dblatex/mystyle.conf
#
# Dblatex config file for my new style.
# Note that the directories are relative to mystyle.conf
#
TexInputs: mystyle/latex//
TexStyle: mytexstyle
XslParam: mystyle/param.xsl
Options: -f fig
```

5. That's it. Try to compile your document with your style, and check the output.

```
$ dblatex -T mystyle file.xml
```

4.3 Publishing Outputs

4.3.1 Publishing a single document

The default publishing document units are: article and book. The output file name is optionnaly specified by the -o option.

You can also publish an article or book subset, i.e. you can run dblatex on an XML input whose root element is a chapter, a section, or anything else. In this case, dblatex wraps the root element in an article or in a book and print out a warning. The output subset does not contain any front matter data found in an article or in a book (cover page, revision history, etc.), but it can contain some back matter materials like an index.

4.3.2 Publishing a Set of Books

When the document root element is a set, and when set.book.num is set to 'all', dblatex ouputs a file per book contained in the set (and in the nested sets). In this case the -o option is ignored, and only the -O option is taken into account to specify the output directory that will contain the generated files.

Instead of building all the books, the user can publish a single book from the set, by setting the set.book.num parameter to the absolute position of the book in the set(s). By default set.book.num is set to 1 to publish only the first book.

The output file names are the book identifiers when use.id.as.filename is non zero, and when an identifier exists. If one of the two conditions are not met, the filename pattern is "book<position in set>".

Example: given the following set:

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- setfile.xml. An example of set. All the books have an @id except one -->
<!DOCTYPE set PUBLIC "-//OASIS//DTD DocBook XML V4.4//EN"</pre>
"http://www.oasis-open.org/docbook/xml/4.4/docbookx.dtd">
<set lang="en" id="a_set" xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Set Title</title>
 <set>
   <xi:include href="book1.xml"/> <!-- book #1 -->
   <xi:include href="book2.xml"/> <!-- book #2 -->
   <xi:include href="book3.xml"/> <!-- book #3 -->
  </set>
  <set>
     <xi:include href="bookA.xml"/> <!-- book #4 -->
      <xi:include href="bookB.xml"/> <!-- book #5 -->
   </set>
   <set>
     <xi:include href="bookC.xml"/> <!-- book #6 -->
   </set>
 </set>
  <set.>
   <xi:include href="book4.xml"/> <!-- book #7 -->
   <!-- The following book, at 8th position in the sets, has no @id -->
   <xi:include href="book5.xml"/> <!-- book #8 -->
   <xi:include href="book6.xml"/> <!-- book #9 -->
 </set>
</set>
```

Publishing this set produces 9 books in the pdfdir directory:

```
sec1-mybook.pdf
sec2-mybook.pdf
sec3-mybook.pdf
sec4-mybook.pdf
book8.pdf
sec6-mybook.pdf
secA-mybook.pdf
secB-mybook.pdf
secC-mybook.pdf
```

4.4 Figure Inclusion

4.4.1 Presentation

The expected format of the included figures depends on the backend driver used:

dvips:

EPS format is required.

pdftex:

PDF or PNG format is required.

In order to be able to use both backends, it is wise to not write the suffix of the file that references the figure. The suffix will be deduced from the backend used.

The figures must either already exists in the expected format, or must be able to be converted on the fly.

Example 4.2 Figure inclusion

4.4.2 Converting on the fly

When it is needed dblatex tries to automatically convert the figures to the expected format (i.e. EPS or PDF). The principle is to detect the original figure format from the suffix of the fileref attribute. If no suffix is given, the tool checks if a file whose basename is conformant with the fileref attribute and with one of the predefined suffixes exists (that is, ".eps", ".fig", ".pdf", or ".png"). If such a file exists, conversion is done from the original format found.

The option -f fig_format allows to specify the default included figures format (fig_format), that will be used when automatic format scanning gives no result. Then, the tool converts the figures from the specified format to the expected one.

If the specified format is unknown, no conversion is done. The supported formats are:

fig:

native format of the figures produced by XFig.

eps:

Encapsulated PostScript format. This format shall be specified only when using the pdftex backend.

Example 4.3 Figure conversion

The following command compiles a document that contains figures produced with XFig.

```
% dblatex -f fig mydoc.sgml
```

4.4.3 Paths Lookup

You can use and cumulate the option -I path to specify where the figures are. The given paths can be absolute or relative. The paths are added to the document root path.

Example 4.4 Figures lookup

This example shows how figure lookup is done. Let's consider this document source:

And the document is compiled like this:

```
% dblatex -I /another/path -I /last/case /initial/path/document.sgml
```

The figure 1 lookup is done in the following directories, in respect of the order:

- /initial/path/rep1/rep2;
- /another/path/rep1/rep2;
- /last/case/rep1/rep2.

4.5 Creating Tables

DocBook tables can be quite complex, but **dblatex** should be able to drive most of cases thanks to the excellent newtbl implementation by David Hedley completely written in XSL.

Here is what is supported:

- Columns without specified widths (colspec without colwidth attribute) have the same size.
- A table width is always equal to the page width, if at least one column doesn't contain a fixed width attribute (e.g. colwidth="12cm").
- Fixed column widths are supported (e.g. colwidth="10cm"). The unit can be whatever is understood by latex (e.g. cm, em, in, pt).
- Proportional column widths are supported (e.g. colwidth= "5*"). Combination of fixed and proportional width is supported too (e.g. colwidth="5*+10cm").
- The morerows attribute of a table entry (entry element) is supported.
- The namest and nameend attributes of a table entry (entry element) are supported. It is possible to have a cell spanned on several columns.
- The orient table attribute is supported (portrait and landscape).
- It is possible to have missing cell entries in a table.

4.5.1 Limitations

Currently the following things are known to fail with tables:

- Program listings and screens cannot be embedded in tables. Some other verbatim environments like litterallayout are allowed.
- Footnotes in table cells can fail, especially if the footnote contains several paragraphs. Moreover they are lost is a float like a table.

4.5.2 Table Width

A table width is explicit when all the columns have a fixed size. In this case it is the sum of the colum widths. In the other cases (columns with no colwidth or proportional columns widths) the total table width is deduced by dblatex as follow: it looks for the Processing Instruction <?dblatex table-with="width" ?> first, then the @width attribute, the default.table.wi-dth parameter, and finally use the page width.

A table width can be expressed as:

- A valid length (e.g. 15cm),
- A percentage of the page width (e.g. 75%),
- A keyword telling to apply an automatic column width (e.g. autowidth.all). See xxx for more details.

4.5.3 Tables without colwidth

When none of the colspec elements contains the colwidth attribute, all the columns have the same size, and the table width is fixed to the maximum available size. Several examples of these tables are given.

Column 1	
left aligned	
no specified width, so it takes all the page	

Column 1	Column 2
left aligned	centered cell
no specified width	idem

Column 1	Column 2	Column 3	Column 4	Column 5
left aligned	left aligned	right aligned	centered cell	centered
no specified width	idem	idem	idem	idem

4.5.4 Tables with mixed colspec

A table can have colspec elements containing colwidth attribute mixed with colspec elements without colwidth. Here is an XML source example:

```
<informaltable>
  <tgroup cols="5" colsep="1" rowsep="1" align="left">
        <colspec colname="c1"/>
        <colspec align="left" colwidth="4cm"/>
        <colspec align="right" colwidth="5cm"/>
        <colspec align="center"/>
        <colspec align="center" colwidth="3cm"/>
```

```
...

</tgroup>
</informaltable>
```

It is rendered like this:

Column 1	Column 2	Column 3	Column 4	Column 5
left aligned (tgroup order)	left aligned	right aligned	centered cell	in the centre
no specified width	4 cm column width	5 cm column width	no width	3 cm column width

4.5.5 Tables with proportional and fixed colwidth

Proportional column widths are supported. Here is an example:

```
<informaltable>
  <tgroup cols="5" colsep="1" rowsep="1" align="left">
        <colspec colname="c1" colwidth="*"/>
        <colspec align="left" colwidth="2*"/>
        <colspec align="right" colwidth="3*"/>
        <colspec align="center"/>
        <colspec align="center" colwidth="3cm"/>

        ...

        </tgroup>
</informaltable>
```

It gives this table:

Column 1	Column 2	Column 3	Column 4	Column 5
left aligned				
(tgroup level)	left aligned	right aligned	centered cell	in the centre
proportional column (*)	proportional column (2*)	proportional column (3*)	no specified width	3 cm column width

4.5.6 Tables with fixed colwidths

All the columns can have fixed size, like this:

```
<informaltable>
  <tgroup cols="4" colsep="1" rowsep="1" align="left">
        <colspec colname="c1" colwidth="2cm"/>
        <colspec align="left" colwidth="2.5cm"/>
        <colspec align="right" colwidth="5cm"/>
        <colspec align="center" colwidth="3cm"/>

        ...

        </tgroup>
        </informaltable>
```

It gives the following table:

Column 1	Column 2	Column 3	Column 4
left aligned (tgroup level)	left aligned	right aligned	centered cell
2 cm column width	2,5 cm column width	5 cm column width	4 cm column width

4.5.7 Automatic Column Width

4.5.7.1 Global Setting

In the previous sections the columns widths are computed from a proportional basis, when no colwidth is specified or when the colwidths contain a star ("*"). Of course, a colwidth containing a fixed width incidently sets the column width with this size.

It is possible to change this sizing policy of not-fixed-width columns by playing with the newtbl.autowidth parameter. The parameter can take the following values:

default

The automatic width (that is, latex is in charge to size the column width) is applied only to columns not having a specified colspec colwidth. It includes both undefined colspec, and colspec without the colwidth attribute.

all

the automatic width is applied to any column, whatever a colspec is provided or not.

By default the parameter is unset, and no automatic width is applied. Using automatic width is handy in some situations but there is no more control if the tables fit in the page or not, since in this case the column is as wide as its content, with no more paragraph breaking. The parameter is global for all the tables in the document.

You can also perform the same thing by setting the <code>default.table.width</code> parameter to autowidth.default or autowidth.all instead of using <code>newtbl.autowidth</code>.

4.5.7.2 Local Setting

If you want to apply an automatic width only to some specific tables you can put the Processing Instruction <?dblatex table-with="autowidth.scope" ?> in the related tables. The PI has precedence over the newtbl.autowidth parameter.

The *scope* can take the same values and have the same effects than for the *newtbl.autowidth* parameter: default or all. Here are two examples:

The following table has columns 1 and 2 sized by latex with autowidth.all:

Column 1	Column 2	Column 3	Column 4
	simple call		cell without
	simple cell	cell on 2 lines	morerow attribute
cell on 4 lines	cell in column 2		cell on 2 lines
	left aligned on 2 lines	cell in line 3, column 3	cen on 2 nnes
	left alighed on 2 lines	4 cm column width	last cell in column 4

It is written as follow:

```
<informaltable><?dblatex table-width="autowidth.all"?>
  <tgroup cols="4" colsep="1" rowsep="1" align="left">
    <colspec colname="c1"/> <!-- 'default' and 'all' apply on this column -->
    <colspec align="left" colwidth="*"/> <!-- only 'all' applies on this column -->
    <colspec align="right" colwidth="5cm"/>
    <colspec align="center" colwidth="3cm"/>
    ...
</informaltable>
```

The following table has only	v columns 1 size	ed by latex w	vith autowidth.default:

Column 1	Column 2	Column 3	Column 4
cell on 4 lines	simple cell		cell without
	simple cen	cell on 2 lines	morerow attribute
	cell in column 2		cell on 2 lines
	left cliened on 2 lines	cell in line 3, column 3	cen on 2 nnes
	left aligned on 2 lines	4 cm column width	last cell in column 4

The only difference is that the PI attrbute value is autowidth.default:

```
<informaltable><?dblatex table-width="autowidth.default"?>
  <tgroup cols="4" colsep="1" rowsep="1" align="left">
  <colspec colname="c1"/> <!-- 'default' and 'all' apply on this column -->
  <colspec align="left" colwidth="*"/> <!-- only 'all' applies on this column -->
  <colspec align="right" colwidth="5cm"/>
  <colspec align="center" colwidth="3cm"/>
  ...
</informaltable>
```

4.5.8 Tables with morerows

A table can contain entries that cover several lines. The following XML source contains an entry covering 4 lines:

Here is an example of table containing several entries with morerows attribute:

Column 1	Column 2	Column 3	Column 4
	simple cell		cell without
cell on 4 lines	simple cen	cell on 2 lines	morerow attribute
	cell in column 2		cell on 2 lines
	left aligned on 2	cell in line 3, column 3	cen on 2 mies
	lines	4 cm column width	last cell in column 4

4.5.9 Landscape tables

A table can be displayed in a lanscape format by using the orient attribute. Here is an XML source example:

Here is how it is displayed.

olumn 1	Column 2	Column 3	Column 4	Column 5
left aligned	left aligned	right aligned	centered cell	centered
no specified width	idem	idem	idem	idem

4.5.10 Smaller tables

For big tables it can be usefull to have smaller text, so that the table is not too large or too long and it can be displayed within a page. It is possible to specify smaller table text by using the role attribute of the elements table or informaltable.

The values and the "role" dedicated to this attribute are specific to dblatex, but it is compliant with the DocBook specification because in general the role attribute purpose is never defined.

The available text size definitions supported by role are directly taken from LaTeX:

- small,
- footnotesize,
- · scriptsize,
- tiny.

Here are examples for each size.

Column 1	Column 2	Column 3	Column 4	Column 5
left aligned	left aligned	right aligned	centered cell	centered
no specified width	idem	idem	idem	idem

Column 1	Column 2	Column 3	Column 4	Column 5
left aligned	left aligned	right aligned	centered cell	centered
no specified width	idem	idem	idem	idem

Column 1	Column 2	Column 3	Column 4	Column 5
left aligned	left aligned	right aligned	centered cell	centered
no specified width	idem	idem	idem	idem

Column 1	Column 2	Column 3	Column 4	Column 5	
left aligned	left aligned	right aligned	centered cell	centered	
no specified width	idem	idem	idem	idem	

4.5.11 Coloured tables

You can color all the table by setting its bgcolor attribute.

You can also color only some cells by using the Processing Instruction <?dblatex bgcolor="color"?>. The PI can apply to columns when put in a colspec, to rows when put at the beginning of a row, or to cells when put in a entry.

The entry colour has precedence over the row colour, that has precedence over the column colour, that has precedence over the table colour.

The color can be expressed in hexadecimal notation like for HTML (e.g. #C0C0C0) or in a syntax understood by the colortbl latex package.

Here is an example.

Column 1	Column 2	Column 3	Column 4
yellow	green column	yellow	yellow
blue row	red cell	blue row	blue row
yellow	green column	yellow	gray

This table is coded like this:

```
<informaltable id="tbl-color" bgcolor="{yellow}">
<tgroup cols="4" colsep="1" rowsep="1" align="left">
```

```
<colspec colname="c1" colwidth="2cm"/>
 <colspec align="left" colwidth="2.5cm"><?dblatex bgcolor="#00FF00"?></colspec>
 <colspec align="right" colwidth="5cm"/>
 <colspec align="center" colwidth="3cm"/>
 <thead>
   <row>
     <entry>Column 1</entry><entry>Column 2</entry>
     <entry>Column 3</entry><entry>Column 4</entry>
 </thead>
 <row>
   <entry>yellow</entry><entry>green column</entry>
   <entry>yellow</entry><entry>yellow</entry>
 <row>
 <?dblatex bgcolor="{blue}"?>
   <entry>blue row</entry>
   <entry><?dblatex bgcolor="{red}"?>red cell</entry>
   <entry>blue row</entry><entry>blue row</entry>
 </row>
 <row>
   <entry>yellow</entry><entry>green column</entry>
   <entry>yellow</entry>
   <entry><?dblatex bgcolor="[gray]{0.8}"?>gray</entry>
 </row>
 </tgroup>
</informaltable>
```

4.6 Writing Mathematics

4.6.1 Writing LaTeX Mathematical Equations

4.6.1.1 Presentation

DocBook doesn't define elements for writing mathematical equations. Only few elements exist that tell how equation should be displayed (inlined, block):

- inlineequation tells that the equation is inlined,
- informalequation tells that the equation is displayed as a block, without a title.
- equation tells that the equation is displayed as a block, with or without a title.

These tags include a graphic (graphic or mediaobject) or an alternative text equation, as shown by the example.

Example 4.5 Equation taken from TDG

```
<equation><title>Last Theorem of Fermat</title>
  <alt>x^n + y^n &ne; z^n &forall; n &ne; 2</alt>
  <graphic fileref="figures/fermat"></graphic>
</equation>
```

4.6.1.2 Implementation choice

The principle is to use only the alt element. If initially alt contains actually the text to print, it is chosen to use this element to embed LaTeX mathematical equations. This choice has the following advantages:

- The translation done by dblatex is really easy, since the equation is already written in LaTeX.
- LaTeX is one of the best word processor to render mathematical formulas.
- One doesn't need to write the equations in MathML.
- This method isn't specific to this tool (see the following section).

4.6.1.3 Compatibility

This implementation is not contradictory nor specific. In particular, the DBTeXMath proposal to extend the DSSSL stylesheets used by jade follows the same approach, and is integrated in the Norman Walsh XSL stylesheets.

4.6.1.4 **Examples**

The following examples show how to write the equations.

Example 4.6 Inlined Equation

The formula $C = \alpha + \beta Y^{\gamma} + \varepsilon$ is inlined in the paragraph. Its XML source is:

```
<para>The formula
  <inlineequation id="eg-inlineequation">
        <alt>$C = \alpha + \beta Y^{\gamma} + \epsilon$</alt>
        <graphic fileref="figures/eq1"/>
        </inlineequation>
is inlined in the paragraph. Its XML source is:</para>
```

Example 4.7 Equation in a block

The following formula:

$$C = \alpha + \beta Y^{\gamma} + \varepsilon$$

is displayed in a separate block. The XML source is:

Example 4.8 Equation in a float

The formula Equation 4.1 below:

$$C = \alpha + \beta Y^{\gamma} + \varepsilon$$

EQUATION 4.1: Simple Formula

is displayed in a block with a title. Its XML source is:

Example 4.9 Equation without a title

The formula 4.1 below:

$$C = \alpha + \beta Y^{\gamma} + \varepsilon \tag{4.1}$$

is displayed as a latex equation with its own equation numbering. Its XML source is:

4.6.2 Writing MathML equations

You can write MathML equations in a DocBook based document, by using the MathML Module for DocBook XML instead of the DocBook DTD.

dblatex now translates the MathML equations to latex by using the excellent stylesheets of the XSLT MathML Library by Vasil Yaroshevich. A large amount of tests from the W3C MathML Test Suite 2.0 is supported (657 of 712 tests). The test file used to validate the MathML stylesheets is provided in the package.

4.7 Extending the Verbatim Rendering

The programlisting and screen environments are supported by dblatex, but the implementation is rather conservative, that is, most of the elements embedded in such environments are not rendered like in normal environment (e.g. bold, enphasis, etc.). Only the contained text is printed out. For the elements whose rendering is lost, **dblatex** prints out a warning message.

For example, let's compile the following programlisting fragment:

dblatex warns that the optional and replaceable elements are not supported (i.e. not rendered) in the programlisting:

If you want those elements be formatted in bold, or italic you need to override the templates used in latex.programlisting mode, as follow:

- **0**, **2**, **3** These parameters are required in latex.programlisting mode.
- The predefined template makes bold the verbatim text of the element.

If formatting setup is not enough, you can also render these elements as if they were in a normal environment. To do this, you need to override the templates used in latex.programlisting mode, as follow:

• To enable the normal mode rendering within a verbatim environment, call the verbatim.embed template, and pass the mandatory parameters.

4.8 Creating an Index

An index is automatically generated if some index entries (indexterm), telling the terms to put in the index, are written in the document. The keyword elements are not printed but are also added to the index.

Example 4.10 Index Entry

```
<para>In this paragraph is described the function
<function>strcpy</function><indexterm>cprimary>strcpy</primary></indexterm>.
</para>
```

The index is put at the end of the document. It is not possible to put it somewhere else.

4.9 Writing a Bibliography

A bibliography (bibliography) can be written and put anywhere in the document. It appears as a chapter or a section and is composed by several divisions (bibliodiv) displayed as sections or subsections.

4.9.1 Using Bibliography Entries

The writer selects information that describes each bibliography entry (biblioentry), and chooses the presentation order. The titles and authors are displayed first.

Example 4.11 A Bibliography

```
<bibliography><title>Bibliography Example</title>
  <bibliodiv><title>References</title>
    <br/>biblioentry>
      <title>Document title</title>
      <author><firstname>J.</firstname><surname>Doe</surname></author>
      <pubsnumber>DEX000567325/pubsnumber>
    </biblioentry>
  </bibliodiv>
  <bibliodiv><title>White papers</title>
    <br/>biblioentry>
      <title>Technical notes</title>
      <authorgroup>
        <author><firstname>J.</firstname><surname>Doe</surname></author>
        <author><firstname>R.</firstname><surname>Marion</surname></author>
      </authorgroup>
      <pubsnumber>DEX000704520</pubsnumber>
    </biblioentry>
  </bibliodiv>
</bibliography>
```

4.9.2 Using BibTeX Databases

Instead of writing the bibliographic materials in DocBook you can reuse some already available BibTeX databases. Of course, this feature is specific to **dblatex**, that will automatically call **bibtex** if some bibtex databases are used.

To do so, write a bibliodiv containing an empty bibliomixed element having a bibtex processing instruction specifying the databases to use and the style to apply.

More precisely here are the attributes supported by the bibtex PI:

bibfiles

This attribute is mandatory and specifies the databases to use. The databases are separated by commas, and must not contain the file suffix (.bib). The bibfiles paths must be absolute or relative to the base directory of the document. You can also add some bibfile paths by using the -L option.

bibstyle

Optional attribute specifying the bibliographic style to apply for rendering the databases. You can also change globally the style to apply with the latex.biblio.style.

The actual style file used by **bibtex** is searched in the default paths, but some extra paths can be added by using the -1 option.

mode

Optional print mode. The available values are:

all

Print all the entries contained in the databases.

cited

Print only the entries cited in the document.

notcited

Print only the entries *not* cited in the document.

When the attribute is not used, the latex.biblio.output parameter is used as print mode. By default the print mode is set to 'all'.

Some bibliodivs embedding bibliographic entries can be mixed with some bibliodivs using BibTeX databases, as shown by Example 4.12.

Example 4.12 Bibliography using BibTeX databases

```
<bibliography><title>Bibliography Example</title>
  <bibliodiv><title>References</title>
    <br/>biblioentry>
      <title>Document Title</title>
      <author><firstname>J.</firstname><surname>Doe</surname></author>
      <pubsnumber>DEX000567325/pubsnumber>
   </biblioentry>
  </bibliodiv>
  <bibliodiv><title>Bibtex References</title>
    <br/><br/>d>ibliomixed><?bibtex bibfiles="bib/latex-bib" bibstyle="alpha"?></bibliomixed>
  </bibliodiv>
  <bibliodiv><title>Cited Bibtex References</title>
    <bibliomixed><?bibtex bibfiles="bib/database1,bib/database2"</pre>
                          bibstyle="plain"
                          mode="cited"?></bibliomixed>
  </bibliodiv>
</bibliography>
```

4.9.3 Natbib Citations

You can apply nation styles by playing with the citation role attribute, or with a dblatex processing instruction. The nation use is enabled only when the <code>citation.natbib.use</code> parameter is set to 1; if not (default) the role attribute or PI are not taken into account even if present. The nation package can be loaded with user specific options by setting the <code>citation.nat-bib.options</code> parameter.

When using the role attribute, simply type the natbib citation command to apply. When using the dblatex PI, put the natbib command in the citestyle attribute.

If you need to put some square brackets "[]" in the citation texts, enclose the whole text with "{}" to protect them (as you would do in latex).

Here are some examples:

```
<para>
<citation role="\citep[see][chap. #2]">texbook</citation>
<citation role="\citep[see][{[chap. #2]}]">texbook</citation>
<citation><?dblatex citestyle="\citep[see][chap. #2]"?>texbook</citation>
<citation>texbook</citation>
</para>
```

You can use a global natib citation style with the citation.default.style parameter. By default the parameter is empty, and therefor is not used.

4.10 Document Revisions

The attribute revisionflag is usefull to identify the changes between two revisions of a document. This information is managed by dblatex, that adds revision bars in the margin of the paragraphs changed, such like in this paragraph.

Adding the revision flags can be manual, but its is tedious and error prone. The perl script diffmk by Norman Walsh can do the work for you. It works fine, but it depends on several Perl modules.

Note

With old changebar packages the revision bars only appear when using the "dvips" driver. This limitation has been fixed with changebar greater or equal to v3.5c.

4.11 Locale Support

4.11.1 Document Encoding

By default the latex document produced by **dblatex** is encoded in latin1, that fits well for roman-characters. This said, a real international support involves some kind of Unicode (UTF8) support.

In dblatex, the Unicode support is done by two methods that can be selected by some parameters:

- latex.unicode.use=1 asks for including the unicode package (initially provided by Passivetex) in order to handle many of the unicode characters in a latin1 encoded document.
- latex.encoding=utf8 produces a document encoded in UTF8, that is compiled in UTF8. It requires to have the ucs package installed.

In some languages like Chinese, Japanese or Korean, the latex document must be in UTF8. Therefore, the UTF8 encoding is forced for these languages whatever the parameter values are.

4.11.2 Babel Languages

Dblatex should be able to handle most of the languages supported by the babel package. Just set the lang=lang attribute in the root document element and dblatex will load the appropriate babel language.

4.11.3 CJK Languages

Dblatex can handle the CJK languages thanks to the CJK package. The CJK package must be installed to have this support available.

As said in Section 4.11.1 the latex file is encoded in UTF8. Moreover, the Cyberbit fonts are then used.

The install of the CJK package and Cyberbit fonts are well described at: http://kile.sourceforge.net/Documentation/html/cjk.html.

4.11.3.1 Korean Support

Dblatex does not use the HLatex package to drive Korean documents. It does not use the **hmakeindex** nor the **hbibtex** tool. Currently, Korean is handled like Chinese and Japanese with the CJK package.

4.11.4 Mixing the languages

Dblatex cannot handle correctly a document containing several elements with different lang values. In particular, if the main document lang is not one of the CJK language, a portion of text written in CJK will not be handled correctly and it can result in a compilation crash.

Even if the langs mixed do not end to a compilation failure, only the main document lang will be taken into account.

4.12 Using XRefsyle and Olinks

Since version 0.2.7 you can use the xrefstyle attribute like you would do with the DocBook Project stylesheets for HTML output.

Furthermore, you can also use olinks. Note that Olinking is used in the PDF version of this manual, in Section 2.4.

Actually, the common DocBook Project stylesheets version 1.72 are now used by dblatex to handle all of these features.

These features are fully described in the DocBook XSL: The Complete Guide book by Bob Stayton. In particular, the following sections cover these topics:

- http://www.sagehill.net/docbookxsl/CustomXrefs.html explains how to use xrefstyle.
- http://www.sagehill.net/docbookxsl/Olinking.html explains how to use olinks.

Chapter 5

Customization

The transformation process (and thus the output rendering) can be heavily customized by:

- using some configuration parameters either in a configuration stylesheet or directly from the command line,
- · using some customized stylesheets,
- using a customized LaTeX style package.
- using a LaTeX post process script.

All these customization methods can be used independently and in exceptional cases, but it can also be combined and registered in a master configuration file, called a specification file (cf. Section 5.6) to create a new tool dedicated to your needs.

5.1 Using XSL Parameters

The PDF rendering can be customised by using some XSL configuration parameters. Appendix A contains the reference documentation of the available user-configurable parameters.

5.2 Setting Command line Parameters

You can set some XSL parameters directly from the command line without creating a configuration parameter stylesheet, with the $\neg P$ parameter=value option.

The following example set the latex.hyperparam parameter value:

dblatex -P latex.hyperparam=colorlinks,linkcolor=blue myfile.xml

5.3 XSL User Stylesheet

You can provide your own XSL stylesheet to set some of the XSL parameters, and/or to override some of the dblatex XSL templates. The user stylesheet is specified by using the option -p custom.xsl.

5.3.1 Changing the XSL parameter values

The parameters can be stored in a user defined XSL stylesheet. An example of configuration stylesheet is given with this manual:

```
<?xml version='1.0' encoding="iso-8859-1"?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version='1.0'>
<!-- Target Database set by the command line
<xsl:param name="target.database.document">olinkdb.xml</xsl:param>
<!-- Use the Bob Stayton's Tip related to olinking -->
<xsl:param name="current.docid" select="/*/@id"/>
<!-- We want the TOC links in the titles, and in blue. -->
<xsl:param name="latex.hyperparam">colorlinks,linkcolor=blue,pdfstartview=FitH</xsl:param>
<!-- Put the dblatex logo -->
<xsl:param name="doc.publisher.show">1</xsl:param>
<!-- Show the list of examples too -->
<xsl:param name="doc.lot.show">figure,table,example</xsl:param>
<!-- DocBook like description -->
<xsl:param name="term.breakline">1</xsl:param>
<!-- Manpage titles not numbered -->
<xsl:param name="refentry.numbered">0</xsl:param>
</xsl:stylesheet>
```

5.3.2 Overriding some templates

You can directly put the overriding templates in your XSL stylesheet, but do not try to import the default dblatex stylesheets in it: it is automatically done by the tool. So, just focus on the template to override and dblatex will ensure that your definitions will get precedence over the dblatex ones.

You can of course split your templates in several files, and import each of them in the main user stylesheet by calling xsl:import.

Example 5.1 Overriding templates

5.4 Customized LaTeX style

The actual output rendering is done by the latex style package used, and not by the XSL stylesheets whose role is only to translate to latex. Users can provide their own LaTeX style file, in respect of some rules:

- The LaTeX style package preamble must support all the options that the XSL stylesheets can pass to the package.
- Some packages must be used to make all the thing work.
- The docbook interface must be defined: the XSL stylesheets register some elements information in LaTeX commands. These
 commands or macro are the only ones specific to DocBook that are explicitly used by the XSL stylesheets. Other specific
 macros are used but are not intended to be changed by the user. These hidden macros are defined in the dbk_core latex package.

The latex style file to use is specified by using the option --texstyle <code>latex_style</code>. An example of a simple LaTeX DocBook style is provided in the package.

The --texstyle latex_style option accepts a package name (no path and no .sty extension) or a full style file path. If a full path is used, the filename must ends with .sty.

```
# Give a package name and assume its path is already in TEXINPUTS
dblatex --texstyle=mystyle file.xml
# Give the full package path. The TEXINPUTS is then updated by dblatex
dblatex --texstyle=./mystyle.sty file.xml
```

5.4.1 Reusing an existing LaTeX style

You can either create your latex style from scratch, in respect of the interfaces described in the following sections, or you can simply reuse an already existing style and override what you want. The latter method is easier for small things to change.

Here is an example of a style package reusing the default docbook style:

Example 5.2 Reused LaTeX style

```
%%
%% This style is derivated from the docbook one
%%
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{mystyle}[2007/04/04 My DocBook Style]

%% Just use the original package and pass the options
\RequirePackageWithOptions{docbook}

%% Redefine the paragraph layout
\setlength\parskip{\medskipamount}
\setlength\parindent{5pt}

%% Redefine some french settings
\babelsetup{fr}{%
\catcode '\=\active
\catcode '\=\active
\def «{u\og\ignorespaces}
\def %{v\unskip\fg}
}
```

5.4.2 Package options

A compliant LaTeX style package supports the following options. The options are provided by the XSL stylesheets according to the document attributes.

Option	Role	
hyperlink, nohyperlink	Indicates if links in the document are provided or not	
article, book	The document is an article or a book	

5.4.3 Needed packages

A LaTeX style package must at least include the following packages.

Package	Description	
dbk_core	Core LaTeX definitions and macros needed for DocBook	

5.4.4 DocBook interface

All the latex commands beginning with DBK are related to elements under bookinfo or articleinfo.

Command	Description		
\DBKreference	mapped to pubsnumber		
\DBKsite	mapped to address		
\DBKcopyright	mapped to copyright		
\DBKdate	mapped to date		
\DBKedition	mapped to edition		
\DBKpubdate	mapped to pubdate		
\DBKsubtitle	mapped to subtitle		
\DBKreleaseinfo	mapped to releaseinfo		
	environment mapped to a legalnotice. The legal		
\DBKlegalnotice	notices are all put into the \DBKlegalblock command. It is		
DBKiegamotice	up to the latex stylesheet to decide where to put it in the		
	document.		
	wrapper command for the \DBKlegalnotice environments,		
\DBKlegalblock	used by the latex stylesheet to decide where to put the legal		
	notices in the document.		
	This command contains the othercredit information		
\DBKindexation	translated to latex by the XSL. This command must be		
	placed where the othercredit shall appear in the document.		
	This environnement must be defined by the user to render		
\DBKindtable	the othercredit list. It can be displayed as a table,		
	listitem, description list, or anything that suits your need.		
\DBKinditem	This is an othercredit item.		
	This environnement must be defined by the user to render		
\DBKrevtable	the revhistory table. Untill now it is not really possible		
DBKIeviaule	to customize it, since it must be a table with four columns,		
	each column for a revhistory piece of information.		
	This float is expected to be defined, and is mapped to		
float example	example. It is not defined by default by the dbk_core		
noat example	package to allow the user to define its rendering (ruled or		
	not, etc.)		
	This float is expected to be defined, and is mapped to		
float dbequation	equation. It is not defined by default by the dbk_core		
noat docquation	package to allow the user to define its rendering (ruled or		
	not, etc.)		

5.4.5 Debugging your Style

It is not surprising if your first dblatex compilation fails with a fresh LaTeX style. So, how to debug it when used with dblatex?

The following steps can help you:

1. Compile your file in the debug mode (option -d). When the compilation is done, the temporary working directory will not be removed.

```
$ dblatex --texstyle=./mystyle.sty -d file.xml
...
/tmp/tpub-ben-99629 is not removed
```

2. Go under the building temporary directory, and set the environment with the file env_tex.

```
$ cd /tmp/tpub-ben-99629
$ . env_tex
```

3. Compile the temporary latex file produced by the XSL stylesheets. Its name has the suffix "_tmp.tex".

```
$ pdflatex file_tmp.tex
$ [ many outputs here ]
```

4. Now latex stops when it encounters an error so that you can debug your stylesheet.

5.5 Latex post process script

Extra user actions can be processed on the latex file produced by the XSL stylesheets or on its temporary working files produced by the latex compilation.

For instance, in the documents I write the cover page must display the number of pages of the document, but written in full letters (e.g. 23 is written "twenty three"). The latex post process script is then helpfull, and in this particular case it patches the .aux file.

The post process script is called just before the last latex compilation, and takes one parameter, the latex file compiled by the tool.

5.5.1 Post latex compilations

The latex compilations done once the script is called depend on the return code of the script:

- When the return code is 0, **dblatex** continues the compilation as many times as necessary.
- When the return code is 1, no more compilation is done by dblatex. This case is useful if the script needs to control precisely the number of compilation to apply. It is up to the script to perform the expected compilations.

To do so, the script can retrieve in the LATEX environment variable the actual compiler used by **dblatex**.

• When the return code is another value, an error is raised to signal a failed post process script execution.

5.6 Dblatex Configuration File

A master configuration file, also called a specification file, can be used to list all the customizations and options to apply. Such a file is passed by using the option -S config_file.

5.6.1 Configuration File Format

The format of the file is the following:

- Every comment starts with a "#", and is ignored.
- The file must contain one parameter by line.
- The format of a parameter is the following:

```
<keyword>: <value>
```

- Every parameter is mapped to an option that can be passed to **dblatex**.
- An unknown parameter is silently ignored (the whole line is dropped).
- The parameters defining a path (a file or a directory) can take absolute or relative paths. A relative path must be defined from the specification file itself. For instance, a specification file under /the/spec/directory/ with a parameter describing the file .../where/this/file/is/myfile points to /the/spec/where/this/file/is/myfile.

The following table lists the supported parameters and the corresponding command line option.

Keyword	Value	Corresponding option	Description
TexInputs	Directories	texinputs	Defines extra path to add to
			TEXINPUTS
TexStyle	Latex package name	texstyle	Defines the LaTeX style
Texstyle			package to use.
TexPost	Script file name	texpost	Defines the LaTeX post
Texpost			process script to use.
XslParam	Parameter file name	-p	Defines the parameter file to
Asir arani			use.
FigInputs	Directories	-I	Defines the extra figures
			path.
	Command line options	None	Lists command options to
			use by default when using
Ontions			the tool. The options
Options			specified by the parameter
			are directly passed to
			dblatex

Here is the specification file used for this manual.

Example 5.3 User Manual Configuration File

```
#
# Configuration file for dblatex documentation (manual, release notes)
#
TexInputs: ../latex//
PdfInputs: ../latex/graphics
TexStyle: docbook
XslParam: manual.xsl
Options: -b pdftex
```

5.6.2 Configuration Paths

By default **dblatex** tries to find the configuration files in the following paths, in respect of the order:

- 1. The current directory
- 2. \$HOME/.dblatex
- 3. /etc/dblatex
- 4. The dblatex package configuration directories.

You can add some extra paths where to look for by setting the DBLATEX_CONFIG_FILES environment variable. The paths are separated by ":" in Unix like systems, and by ";" on Windows. These paths are used only when nothing is found in the default paths.

5.7 Customization Precedence

All the customization queries are translated to the corresponding command line options. Thus, using several customization methods can be unconsistent because each of them override the same option with another value.

For instance, you can specify the use of a specification file in which it is said to use a latex style (parameter TexStyle) and explicitly use the --texstyle command line option. So, what is the behaviour?

The options order is the following:

- If a specification file is used (-S option), the options are set to the specification file parameters.
- The options explicitly passed override the specification file setting, whatever is the position of the options (i.e. before or after the -S option).
- If an option is passed several times, this is the last occurence that is used.

Example 5.4 Customization Precedence

Let's consider the specification file containing the following parameters:

```
XslParam: file3.xsl
Options: -b pdftex
TexStyle: mystyle1
```

And now the command line:

```
dblatex -b dvips -p file1.xsl -p file2.xsl -S file.specs -s mystyle2 mydoc.xml
```

The setting used is the following:

- "-b dvips" overrides "-b pdftex" set by the spec file.
- "-p file2.xsl" overrides "-p file1.xsl" since it is defined after, and overrides "file3.xsl" set by the spec file.
- "-s mystyle2" override "mystyle1" set by the spec file.

Chapter 6

FAQ

The purpose of this mini FAQ is to give some tips about how customizing or tweaking the PDF output.

6.1 My images are too big. What can I do?

When an image is included via imagedata with no scaling attributes (e.g, width, height, contentwidth) it is its natural size that is used.

One can change individually the size of an imagedata by defining its attributes (see [TDG] for more details). One can also use the parameter imagedata.default.scale to apply a systematic scaling rule on every image that has no explicit attribute.

The parameter imagedata.default.scale can take:

- The default predefined value "pagebound": the image natural size is used, up to the page boundaries. That is, if an image natural width is greater than the page width its size is proportionally reduced so that it is contained in the page. The same control is done for height.
- Any combination of valid \includegraphics options. For example

imagedata.default.scale=scale=40%

The scale 40% is applied on the images.

imagedata.default.scale=width=40%,height=3in

This example is weird but shows that several options can be used. In this case the image width is 40% of the page width, and the height is fixed to 3 inches. The risk to have an anamorphous result is very high here.

6.2 How can I have the PDF fit to height by default?

The behaviour of the PDF file when opened by a reader like Acrobat Reader can be customized with the parameter latex.hyperparam. See the section called "Description" for more details about this parameter.

To answer precisely to the question, set the parameter with the option "pdfstartview=FitV".

6.3 How can I have all the PDF hyperlinks in blue color?

Same answer than for the previous question.

For this particular case, set the parameter with the options "linktocpage,colorlinks,linkcolor=blue,citecolor=blue,urlcolor=blue".

6.4 How can I remove that stupid float rules?

If you wonder about this, you propably use the db2latex style. To remove the rules, you need to patch the db2latex.sty. You can:

- Simply remove the floatstyle definition for the floats for which you don't want the rules.
- Explicitely use the plain floatstyle. Note that using this explicit style does not allow to change the float title position anymore. The plain style always put the title at the bottom of the float.

6.5 My long tables don't split in several pages. Why?

A formal table (table element) is put in a float, so that it can have a numbered caption and placed by tex at the best place. The limitation is that a float cannot split over several pages.

For long tables that need to split, use informaltable instead.

6.6 I cannot put a table in an example.

A formal table (table element) is put in a float, and cannot be put in another float like an example. You can use an informaltable instead.

6.7 I cannot compile my cyrillic document. Why?

A document using some characters different from the roman alphabet may face some troubles, because latex natively handles only latin1 encoding.

Try the different unicode supports provided by dblatex:

- Use the XeTeX backend, a new tex engine that natively supports Unicode characters: dblatex -b xetex file.xml.
- Ask for using the latex unicode support by setting the <code>latex.encoding=utf8</code> parameter: dblatex -P latex.encoding=utf8 file.xml.
- Use the Passivetex extensions by setting the <code>latex.unicode.use=1</code> parameter: dblatex -P latex.unicode.use=1 file.xml.

See Section 4.11.1 for more details.

Chapter 7

Thanks

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Appendix A

Dblatex XSL Parameter Reference

This is reference documentation for all user-configurable parameters in the dblatex XSL stylesheets.

The organization of the reference entries mimics the FO Parameter Reference for people familiar with the DocBook Project documentation.

A.1 Admonitions

figure.caution

figure.caution — Figure to use to render a caution block.

Synopsis

<xsl:param name="figure.caution">warning</xsl:param>

Description

Figure to use to render a caution block. This parameter is added to allow new latex styles to use their own figures in admonitions

figure.important

figure.important — Figure to use to render a important block

Synopsis

<xsl:param name="figure.important">warning</xsl:param>

Description

Figure to use to render a important block. This parameter is added to allow new latex styles to use their own figures in admonitions.

figure.note

figure.note — Figure to use to render a note block

Synopsis

```
<xsl:param name="figure.note"/>
```

Description

Figure to use to render a note block. This parameter is added to allow new latex styles to use their own figures in admonitions.

figure.tip

figure.tip — Figure to use to render a tip block

Synopsis

```
<xsl:param name="figure.tip"/>
```

Description

Figure to use to render a tip block. This parameter is added to allow new latex styles to use their own figures in admonitions.

figure.warning

figure.warning — Figure to use to render a warning block

Synopsis

```
<xsl:param name="figure.warning">warning</xsl:param>
```

Description

Figure to use to render a warning block. This parameter is added to allow new latex styles to use their own figures in admonitions.

A.2 Callouts

callout.linkends.hot

callout.linkends.hot — Hot links callout items

Synopsis

```
<xsl:param name="callout.linkends.hot" select="'1'"/>
```

Description

The callouts referenced in a callout list are hot links if the parameter is set to 1. Then, the references are in red such like any other cross-reference link in the document.

calloutlist.style

calloutlist.style — Callout list style to apply

Synopsis

```
<xsl:param name="calloutlist.style" select="'leftmargin=1cm, style=sameline'"/>
```

Description

Defines how the callout list items are displayed. The value must be some valid enumitem description list options.

callout.markup.circled

callout.markup.circled — Use black circles for numbering the callout items?

Synopsis

```
<xsl:param name="callout.markup.circled" select="'1'"/>
```

Description

Set to 1 the callouts references in a calloutlist are white numbers in black circles, like the markups in the listing (or graphic). Set to 0 the references are simple numbers.

co.linkends.show

co.linkends.show — Show the references to calloutlist items next to the markup

Synopsis

```
<xsl:param name="co.linkends.show" select="'1'"/>
```

Description

Next to a callout markup the links to the corresponding calloutlist items are shown when the parameter is set to 1. Set to 0 the links are not shown.

imageobjectco.hide

imageobjectco.hide — Hide the callout markups on the image

```
<xsl:param name="imageobjectco.hide" select="0"/>
```

Description

When set to 1 the callout numbered circles are not drawn on the image. Only the anchors are put, allowing callout list items to jump at the referenced position on the image. The purpose of this parameter is to allow the use of images that already contain the callout numbers (like for GIMP manual).

A.3 ToC/LoT/Index Generation

doc.lot.show

doc.lot.show — Specifies the Lists of Titles to display

Synopsis

```
<xsl:param name="doc.lot.show">figure, table</xsl:param>
```

Description

Specifies which Lists of Titles should be printed after the Table of Content. The value is a comma separated list of the LoTs to show. The supported LoTs are "figure", "table", "equation", and "example". The list order represents the LoTs order in the output document.

doc.toc.show

doc.toc.show — Print the Table Of Contents

Synopsis

```
<xsl:param name="doc.toc.show">1</xsl:param>
```

Description

Print the table of contents when set to 1.

titleabbrev.in.toc

titleabbrev.in.toc — Should titleabbrev be put in the TOC instead of title?

Synopsis

```
<xsl:param name="titleabbrev.in.toc">1</xsl:param>
```

Description

Set to 1 the titleabbrev content is put in the TOC instead of the title.

toc.section.depth

toc.section.depth — How deep should recursive sections appear in the TOC?

Synopsis

```
<xsl:param name="toc.section.depth">5</xsl:param>
```

Description

Depth of the TOC. Used to set the latex tocdepth counter.

bibliography.tocdepth

bibliography.tocdepth — How bibliography section and subsections appear in TOC

Synopsis

```
<xsl:param name="bibliography.tocdepth">5</xsl:param>
```

Description

Same than preface.tocdepth for bibliography sections. Meaningful only when bibliography.numbered is set to 0.

See Also

```
bibliography.numbered.

refentry.numbered, refentry.tocdepth.

glossary.numbered, glossary.tocdepth.

index.numbered, index.tocdepth.
```

colophon.tocdepth

Synopsis

```
<xsl:param name="colophon.tocdepth">0</xsl:param>
```

Description

Same than preface.tocdepth for colophon sections.

dedication.tocdepth

dedication.tocdepth — How dedication section and subsections appear in TOC

Synopsis

<xsl:param name="dedication.tocdepth">0</xsl:param>

Description

Same than preface.tocdepth for dedication sections.

preface.tocdepth

preface.tocdepth — How preface section and subsections appear in TOC

Synopsis

<xsl:param name="preface.tocdepth">0</xsl:param>

Description

When greater than 0, the preface headings appear in the TOC. The parameter value define the preface section depth appearing in the TOC and in the bookmarks. If set to 0, none of the sections are put in the TOC. If set to 1, only the chapter level appears in the TOC and bookmarks, and so on. When the parameter is negative, it behaves like with 0, but it uses the previous implementation (use of unnumbered sections, that is, with latex heading commands ending with '*').

glossary.tocdepth

glossary.tocdepth — How glossary section and subsections appear in TOC

Synopsis

<xsl:param name="glossary.tocdepth">5</xsl:param>

Description

Same than preface.tocdepth for glossary sections. Meaningful only when glossary.numbered is set to 0.

See Also

```
glossary.numbered.
refentry.numbered, refentry.tocdepth.
bibliography.numbered, bibliography.tocdepth.
index.numbered, index.tocdepth.
```

index.tocdepth

index.tocdepth — How index section and subsections appear in TOC

Synopsis

```
<xsl:param name="index.tocdepth">5</xsl:param>
```

Description

Same than preface.tocdepth for index sections. Meaningful only when index.numbered is set to 0.

See Also

```
index.numbered.
refentry.numbered, refentry.tocdepth.
bibliography.numbered, bibliography.tocdepth.
glossary.numbered, glossary.tocdepth.
```

refentry.tocdepth

refentry.tocdepth — How refentry section and subsections appear in TOC

Synopsis

```
<xsl:param name="refentry.tocdepth">5</xsl:param>
```

Description

Same than preface. tocdepth for refentry sections. Meaningful only when refentry. numbered is set to 0.

A.4 Processor Extensions

alt.use

alt.use — Always use alt to display equations

```
<xsl:param name="alt.use" select="0"/>
```

Description

When an (informal) equation contains both alt and another element (graphic, etc.), and when tex.math.in.alt is not set to 'latex', the alt element is not used to display the equation since it is considered as a fallback element. Set alt.use to force the use of alt as default rendering element even when tex.math.in.alt is not set to 'latex'.

tex.math.in.alt

tex.math.in.alt — TeX notation used for equations

Synopsis

```
<xsl:param name="tex.math.in.alt" select="'latex'"/>
```

Description

Specifies if the alt element in an (informal) equation contains some tex equation. If so, and if the tex equation is in 'latex' format, the content is directly used by dblatex.

A.5 Automatic labelling

bibliography.numbered

bibliography.numbered — Should bibliography headings be numbered?

Synopsis

```
<xsl:param name="bibliography.numbered">1</xsl:param>
```

Description

Defines either the bibliography titles are numbered or not. When numbered, it is displayed as any other numbered section.

See Also

```
bibliography.tocdepth.
glossary.numbered, glossary.tocdepth.
refentry.numbered, refentry.tocdepth.
index.numbered, index.tocdepth.
```

glossary.numbered

glossary.numbered — Should glossary headings be numbered?

Synopsis

```
<xsl:param name="glossary.numbered">1</xsl:param>
```

Description

Defines either the glossary titles are numbered or not. When numbered, it is displayed as any other numbered section.

See Also

```
glossary.tocdepth.
refentry.numbered, refentry.tocdepth.
bibliography.numbered, bibliography.tocdepth.
index.numbered, index.tocdepth.
```

index.numbered

index.numbered — Should index headings be numbered?

Synopsis

```
<xsl:param name="index.numbered">1</xsl:param>
```

Description

Defines either the index titles are numbered or not. When numbered, it is displayed as any other numbered section.

See Also

```
index.tocdepth.
refentry.numbered, refentry.tocdepth.
bibliography.numbered, bibliography.tocdepth.
glossary.numbered, glossary.tocdepth.
```

refentry.numbered

 $refentry. numbered \\ --- Should \ \texttt{refentry} \ \textbf{headings} \ \textbf{be} \ \textbf{numbered}?$

```
<xsl:param name="refentry.numbered">1</xsl:param>
```

Description

Defines either the refentry titles are numbered or not. When numbered, it is displayed as any other numbered section.

See Also

```
refentry.tocdepth.

glossary.numbered, glossary.tocdepth.

bibliography.numbered, bibliography.tocdepth.

index.numbered, index.tocdepth.
```

A.6 Meta/*Info

doc.pdfcreator.show

doc.pdfcreator.show — Set the PDF metadata Creator field

Synopsis

```
<xsl:param name="doc.pdfcreator.show">1</xsl:param>
```

Description

Fill the Creator field of the PDF document information section with "DBLaTeX-<version>" if the parameter is set to 1. Set to 0 this field is keep untouched.

make.single.year.ranges

```
make.single.year.ranges — Print single-year ranges (e.g., 1998-1999)
```

Synopsis

```
<xsl:param name="make.single.year.ranges" select="0"/>
```

Description

If non-zero, year ranges that span a single year will be printed in range notation (1998-1999) instead of discrete notation (1998, 1999). Parameter taken from the DocBook XSL stylesheets.

make.year.ranges

make.year.ranges — Collate copyright years into ranges?

Synopsis

```
<xsl:param name="make.year.ranges" select="0"/>
```

Description

If non-zero, copyright years will be collated into ranges. Parameter taken from the DocBook XSL stylesheets.

A.7 Reference Pages

funcsynopsis.decoration

funcsynopsis.decoration — Decorate elements of a funcsynopsis?

Synopsis

```
<xsl:param name="funcsynopsis.decoration" select="1"/>
```

Description

If non-zero, elements of the funcsynopsis will be decorated (e.g. rendered as bold or italic text). The decoration is controlled by templates that can be redefined in a customization layer.

This parameter is taken from the DocBook Project XSL parameters.

funcsynopsis.style

funcsynopsis.style — What style of funcsynopsis should be generated?

Synopsis

```
<xsl:param name="funcsynopsis.style">ansi</xsl:param>
```

Description

If funcsynopsis.style is ansi, ANSI-style function synopses are generated for a funcsynopsis, otherwise K&R-style function synopses are generated.

This parameter is taken from the DocBook Project XSL parameters.

function.parens

function.parens — Generate parens after a function?

```
<xsl:param name="function.parens">0</xsl:param>
```

Description

If non-zero, the formatting of a function element will include generated parentheses.

This parameter is taken from the DocBook Project XSL parameters.

refclass.suppress

refclass.suppress — Suppress display of refclass contents?

Synopsis

```
<xsl:param name="refclass.suppress" select="0"/>
```

Description

Parameter taken from the DocBook Project.

See refclass.suppress.

refentry.generate.name

 $refentry.generate.name -- Output \ NAME \ header \ before \ {\tt refnames}?$

Synopsis

```
<xsl:param name="refentry.generate.name" select="0"/>
```

Description

If non-zero, a "NAME" section title is output before the list of refnames.

refentry.xref.manvolnum

 $refentry.xref.man volnum -- Output \verb| manvolnum| as part of \verb| refentry| cross-reference|?$

Synopsis

```
<xsl:param name="refentry.xref.manvolnum" select="'1'"/>
```

Description

if non-zero, the manvolnum is used when cross-referencing refentrys, either with xref or citerefentry.

A.8 Tables

newtbl.autowidth

newtbl.autowidth — Table column widths sized by latex

Synopsis

```
<xsl:param name="newtbl.autowidth"/>
```

Description

Defines if the table column widths must be automatically sized by latex. See Section 4.5.7.2.

newtbl.bgcolor.thead

newtbl.bgcolor.thead — Background color of the thead rows

Synopsis

```
<xsl:param name="newtbl.bgcolor.thead"/>
```

Description

Background color of the thead rows.

newtbl.default.colsep

newtbl.default.colsep — By default draw a vertical line between columns

Synopsis

```
<xsl:param name="newtbl.default.colsep" select="'1'"/>
```

Description

Set to 1, print the column separators when no colspec attribute is specified.

newtbl.default.rowsep

newtbl.default.rowsep — By default draw a horizontal line between rows

```
<xsl:param name="newtbl.default.rowsep" select="'1'"/>
```

Description

Set to 1, print the row separators when no rowspec attribute is specified.

newtbl.format.tbody

newtbl.format.tbody — LaTeX formatting for body table cells

Synopsis

```
<xsl:param name="newtbl.format.tbody"/>
```

Description

LaTeX formatting for body table cells.

newtbl.format.tfoot

newtbl.format.tfoot — LaTeX formatting for foot table cells

Synopsis

```
<xsl:param name="newtbl.format.tfoot"/>
```

Description

LaTeX formatting for foot table cells.

newtbl.format.thead

newtbl.format.thead — LaTeX formatting for head table cells

Synopsis

```
<xsl:param name="newtbl.format.thead">\bfseries%
</xsl:param>
```

Description

LaTeX formatting for head table cells.

newtbl.use.hhline

newtbl.use.hhline — Draw the horizontal lines with the hhline package

Synopsis

```
<xsl:param name="newtbl.use.hhline" select="'0'"/>
```

Description

Set to 1, use the hhline package to draw the table row separators instead of cline. Using hhline seems more suited for colored tables.

table.default.position

table.default.position — Default table float placement policy

Synopsis

```
<xsl:param name="table.default.position" select="'[htbp]'"/>
```

Description

Default table float placement algorithm to apply. The default parameter value is [htbp] meaning that latex tries to place the table where it occurs first (h, here), then at the top of the page (t), at the bottom of the page (b), and finally on the next page (p).

table.in.float

table.in.float — Use or emulate a float to display a formal table?

Synopsis

```
<xsl:param name="table.in.float" select="'1'"/>
```

Description

Set to 0 the formal tables are no more put in table floats. They are displayed with the longtable package, allowing to have formal tables covering several pages (which is not possible with floats). The limitation is that the title must necessarily be on the top of the table.

table.title.top

table.title.top — Title on top of the table float

```
<xsl:param name="table.title.top" select="'0'"/>
```

Description

Set to 1 the table float title position is above the table. Set to 0 the title is under the table. Meaningless when the table is not in a float (see table.in.float).

A.9 Linking

latex.hyperparam

latex.hyperparam — Options/parameters passed to hyperref

Synopsis

```
<xsl:param name="latex.hyperparam"/>
```

Description

This parameter gives the options to pass to the LaTeX hyperref package. No validity check is done.

For instance, the Table of Content rendering (link color, etc.) can be changed. Look at the hyperref.sty documentation to know all the hyperref options available.

Example A.1 Configuring with latex.hyperparam

```
<?xml version='1.0' encoding="iso-8859-1"?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version='1.0'>
<!-- We want TOC links in the titles (not in the page numbers), and blue.
-->
<xsl:param name="latex.hyperparam">colorlinks,linkcolor=blue</xsl:param>
</xsl:stylesheet>
```

Olink Parameters

current.docid, insert.olink.page.number, insert.olink.pdf.frag, olink.base.uri, olink.debug, olink.doctitle, olink.lang.fallback.sequence, prefer.internal.olink, target.database.document, targets.filename, use.local.olink.style — Parameters to configure Olinks

```
<xsl:param name="current.docid"/>
<xsl:param name="insert.olink.page.number">yes</xsl:param>
<xsl:param name="insert.olink.pdf.frag" select="1"/>
<xsl:param name="olink.base.uri" select="''"/>
<xsl:param name="olink.debug" select="0"/>
<xsl:param name="olink.doctitle" select="'yes'"/>
<xsl:param name="olink.lang.fallback.sequence" select="''"/>
<xsl:param name="prefer.internal.olink" select="0"/>
<xsl:param name="target.database.document" select="''"/>
<xsl:param name="target.filename" select="'target.db'"/>
<xsl:param name="use.local.olink.style" select="0"/>
```

Description

These parameters are taken from the DocBook Project XSL parameters and must be used as described in the original reference:

- current.docid,
- insert.olink.page.number,
- insert.olink.pdf.frag,
- olink.base.uri,
- · olink.debug,
- olink.doctitle,
- olink.lang.fallback.sequence,
- prefer.internal.olink,
- target.database.document,
- targets.filename,
- use.local.olink.style,

A.10 Cross References

insert.xref.page.number

insert.xref.page.number — Turns page numbers in xrefs on and off

```
<xsl:param name="insert.xref.page.number">no</xsl:param>
```

Description

The value of this parameter determines if cross references (xrefs) in printed output will include page number citations. It has three possible values.

no

No page number references will be generated.

yes

Page number references will be generated for all xref elements. The style of page reference may be changed if an xrefstyle attribute is used.

maybe

Page number references will not be generated for an xref element unless it has an xrefstyle attribute whose value specifies a page reference.

xref.hypermarkup

xref.hypermarkup — Wrap the entire the xref markups with an hyperlink?

Synopsis

```
<xsl:param name="xref.hypermarkup" select="0"/>
```

Description

When set to 1, the whole cross reference markup produced for an xref is converted to an hyperlink.

When not set, the default latex hyperlinking is done, that usually means that only the reference numbers are hot.

A.11 Lists

term.breakline

term.breakline — Put the term description on the next line?

Synopsis

```
<xsl:param name="term.breakline">0</xsl:param>
```

Description

Set to 1 the item following a term in a variable list is put on the next line.

variablelist.term.separator

variablelist.term.separator — Text to separate terms within a multi-term varlistentry

Synopsis

```
<xsl:param name="variablelist.term.separator">, </xsl:param>
```

Description

When a varlistentry contains multiple term elements, the string specified in the value of the *variablelist.term.se-parator* parameter is placed after each term except the last.

A.12 QAndASet

qanda.defaultlabel

qanda.defaultlabel — Sets the default for defaultlabel on QandASet.

Synopsis

```
<xsl:param name="qanda.defaultlabel">number</xsl:param>
```

Description

If no defaultlabel attribute is specified on a qandaset, this value is used. It must be one of the legal values for the defaultlabel attribute, one from none, number or qanda. The default value is 'number'.

Meaning

qanda - questions are labeled "Q:" and answers are labeled "A:".

number - The entries are enumerated.

none - No distinguishing label precedes Questions or Answers.

A.13 Bibliography

biblioentry.item.separator

biblioentry.item.separator — Text to separate bibliography entries

Synopsis

```
<xsl:param name="biblioentry.item.separator">, </xsl:param>
```

Description

Text to separate bibliography entries.

citation.default.style

citation.default.style — Default natbib citation style to apply

Synopsis

```
<xsl:param name="citation.default.style"/>
```

Description

Default natbib citation style to apply when natbib is used. See Section 4.9.3.

citation.natbib.options

citation.natbib.options — Specifies the natbib package options

Synopsis

```
<xsl:param name="citation.natbib.options"/>
```

Description

Options to pass to the natbib package when it is loaded. See also Section 4.9.3.

citation.natbib.use

citation.natbib.use — Use natbib to display citations

Synopsis

```
<xsl:param name="citation.natbib.use" select="'0'"/>
```

Description

Load the natbib package, and allows the use of natbib citation styles. The package is loaded if the parameter is set to 1. See Section 4.9.3.

latex.bibfiles

latex.bibfiles — Defines the default BibTeX database to use

```
<xsl:param name="latex.bibfiles">''</xsl:param>
```

Defines the default BibTeX database to use. Used when the bibtex PI does not have a "bibfiles" attribute. See Section 4.9.2 for more details.

latex.biblio.output

latex.biblio.output — Defines how the BibTeX bibliographic entries are printed out

Synopsis

```
<xsl:param name="latex.biblio.output">all</xsl:param>
```

Description

Defines how the BibTeX bibliographic entries are printed out. The available values are defined in Section 4.9.2.

latex.biblio.style

latex.biblio.style — Default BibTeX style to apply

Synopsis

```
<xsl:param name="latex.biblio.style"/>
```

Description

Defines the default BibTeX style to apply. Meaningful when not empty, only for the used bibtex databases. See Section 4.9.2.

latex.bibwidelabel

latex.bibwidelabel — Template of the widest bibliography label

Synopsis

```
<xsl:param name="latex.bibwidelabel">WIDELABEL</xsl:param>
```

Description

The environment bibliography accepts a parameter that indicates the widest label, which is used to correctly format the bibliography output. The value of this parameter is output inside the \begin{thebibliography[]} LaTeX command.

A.14 Glossary

glossterm.auto.link

glossterm.auto.link — Generate links from glossterm to glossentry automatically?

```
<xsl:param name="glossterm.auto.link" select="0"/>
```

Description

When set to 1, the glossterms in the document are linked to their definition in the glossary.

A.15 Miscellaneous

annotation.support

annotation.support — Enable the annotation support

Synopsis

```
<xsl:param name="annotation.support" select="'0'"/>
```

Description

Set to 1 the experimental $DocBook\ 5$ annotation support is enabled.

doc.section.depth

doc.section.depth — Depth of the section numbering

Synopsis

```
<xsl:param name="doc.section.depth">5</xsl:param>
```

Description

Depth of the section numbering. Used to set the latex secnumdepth counter.

equation.default.position

equation.default.position — Default equation float placement to apply

```
<xsl:param name="equation.default.position">[H]</xsl:param>
```

Default equation float placement algorithm to apply. See figure.default.position for more details about how to use latex float specifications.

example.default.position

example.default.position — Default example float placement to apply

Synopsis

```
<xsl:param name="example.default.position">[H]</xsl:param>
```

Description

Default example float placement algorithm to apply. See figure.default.position for more details about how to use latex float specifications.

figure.default.position

figure.default.position — Figure float placement policy

Synopsis

```
<xsl:param name="figure.default.position">[htbp]</xsl:param>
```

Description

Default figure float placement algorithm to apply. The default parameter value is [htbp] meaning that latex tries to place the figure where it occurs first (h, here), then at the top of the page (t), at the bottom of the page (b), and finally on the next page (p).

figure.title.top

figure.title.top — Title on top of the figure float

Synopsis

```
<xsl:param name="figure.title.top">0</xsl:param>
```

Description

Set to 1 the figure float title position is above the image. Set to 0 the title is under the image.

filename.as.url

filename.as.url — Hyphenate a filename like if is was an URL

Synopsis

```
<xsl:param name="filename.as.url">1</xsl:param>
```

Description

Set to 1 the filenames are handled as URLs, with the same hyphenation rules. Set to 0 the filename hyphenation is forced for each character.

literal.layout.options

literal.layout.options — Override the options passed to the listing package

Synopsis

```
<xsl:param name="literal.layout.options"/>
```

Description

Overwrite the default options passed to the \lstset command.

literal.lines.showall

literal.lines.showall — Show the last empty lines in the literal environments?

Synopsis

```
<xsl:param name="literal.lines.showall">1</xsl:param>
```

Description

Set to 1, all the lines in a verbatim environment like programlisting or screen are printed, even if they are empty. Set to 0, the last empty lines are not printed. It is set to 1 by default.

literal.width.ignore

literal.width.ignore — Ignore the literal environment width attribute

```
<xsl:param name="literal.width.ignore">0</xsl:param>
```

When set to 1 the programlisting and screen width attribute is ignored. In this case all the verbatim environment widths are equal to the enclosing environment width.

mediaobject.caption.style

mediaobject.caption.style — Font style of the mediaobject caption text

Synopsis

<xsl:param name="mediaobject.caption.style">\slshape</xsl:param>

Description

Font style of the mediaobject caption text. Its value can be any valid latex font style command combinations. By default this parameter put the caption text to italics.

monoseq.hyphenation

monoseq.hyphenation — Specifies one of the supported monseq hyphenation policy

Synopsis

 $\verb| <xsl:param name="monoseq.hyphenation">1</xsl:param>|$

Description

When set to 1, aggressively hyphenates the inlined element rendered with monoseq fonts. When set to 0, let latex do as default. When set to 'nohyphen', dblatex tries to avoid overfull boxes (words in the margins) but keeps the monoseq words not splittable.

monoseq.small

monoseq.small — Use a smaller font to render monoseq portions of text

Synopsis

<xsl:param name="monoseq.small">0</xsl:param>

Description

When set to 1, choose a smaller font to the element rendered with monoseq fonts.

pdf.annot.options

pdf.annot.options — PDF text annotations rendering options

```
<xsl:param name="pdf.annot.options"/>
```

Description

Options to change how the PDF text annotations should look. The supported options are width, height, depth. The options must be comma separated like: width=5cm, depth=10cm.

seg.item.separator

seg.item.separator — Separator to use between several segitems

Synopsis

```
<xsl:param name="seg.item.separator">, </xsl:param>
```

Description

Defines the separator to use between several segitems.

show.comments

show.comments — Display remark elements?

Synopsis

```
<xsl:param name="show.comments" select="1"/>
```

Description

If non-zero, comments will be displayed, otherwise they are suppressed. Comments here refers to the remark element (which was called comment prior to DocBook 4.0), not XML comments (<-- like this -->) which are unavailable.

Note

Dblatex uses the PDF Text Annotations capabilities to handle comments and remarks.

ulink.footnotes

ulink.footnotes — Generate footnotes for ulinks?

```
<xsl:param name="ulink.footnotes" select="0"/>
```

If non-zero, and if ulink. show also is non-zero, the URL of each ulink will appear as a footnote.

Dblatex Limitation

The URL cannot be shown in a footnote if the ulinks are in list terms or heading titles.

ulink.show

ulink.show — Display URLs after ulinks?

Synopsis

```
<xsl:param name="ulink.show" select="0"/>
```

Description

If non-zero, the URL of each ulink will appear after the text of the link. If the text of the link and the URL are identical, the URL is suppressed.

See also ulink. footnotes.

The global ulink.show and ulink.footnotes setting can be overriden for each ulink that uses an xrefstyle like the following examples:

```
<!-- show 'Hot Text [URL]' or 'Hot Text (foot)' even if $ulink.show=0 -->
<ulink xrefstyle="url.show" url="http://www.a.site.org/path">Hot Text</ulink>
<!-- show 'Hot Text' even if $ulink.show=1 -->
<ulink xrefstyle="url.hide" url="http://us3.a.site.org/path">Hot Text</ulink>
<!-- show 'Hot Text [URL]' even if $ulink.show=0 and $ulink.footnotes=1 -->
<ulink xrefstyle="url.show.after" url="http://www.a.site.org/path">Hot Text</ulink>
<!-- show 'Hot Text (foot)' even if $ulink.show=0 and $ulink.footnotes=0 -->
<ulink xrefstyle="url.show.infoot" url="http://www.a.site.org/path">Hot Text</ulink>
<!-- show 'Hot Text (foot)' if $ulink.show=1 and even if $ulink.footnotes=0 -->
<ulink xrefstyle="url.infoot" url="http://www.a.site.org/path">Hot Text</ulink>
<!-- show 'Hot Text [URL]' if $ulink.show=1 and even if $ulink.footnotes=1 -->
<ulink xrefstyle="url.after" url="http://www.a.site.org/path">Hot Text</ulink></ulink>
```

xref.with.number.and.title

xref.with.number.and.title — Use number and title in cross references

```
<xsl:param name="xref.with.number.and.title" select="0"/>
```

A cross reference may include the number (for example, the number of an example or figure) and the title which is a required child of some targets. This parameter inserts both the relevant number as well as the title into the link.

A.16 Graphics

imagedata.boxed

imagedata.boxed — Put the images into a framed box

Synopsis

<xsl:param name="imagedata.boxed">0</xsl:param>

Description

If set to 1, put the images into a framed box.

imagedata.default.scale

imagedata.default.scale — Specifies the default image scaling properties

Synopsis

<xsl:param name="imagedata.default.scale">pagebound</xsl:param>

Description

Default scale to apply to every imagedata that does not contain any scaling attribute.

By default this parameter is set to 'pagebound' so that the included images keep their natural size up to the page boundaries.

Two other special parameters are available: 'maxwidth=width' and 'maxheight=height' where width and height define the maximum image dimensions, i.e. the image keeps its natural size up to the specified maximum dimension. Both 'maxwidth' and 'maxheight' settings can be combined in a comma separated list.

Example:

```
dblatex -P imagedata.default.scale=maxwidth=10cm,maxheight=8cm file.xml
```

Except these special reserved values, the expected value of the parameter must be some valid options passed to the \include-graphics command.

imagedata.file.check

imagedata.file.check — Make the latex compilation robust to missing images

```
<xsl:param name="imagedata.file.check">1</xsl:param>
```

Description

When set to 1 some tex code is added to ensure that latex compilation does not fail when the referenced imagedata file does not exist.

A.17 Chuncking

set.book.num

set.book.num — Select a single book or all the books to compile from a set

Synopsis

```
<xsl:param name="set.book.num">1</xsl:param>
```

Description

When the document root element is a set this parameter can be used to select the book to print, or to publish all the books contained in the set when the value is "all". **dblatex** can only chunk the set in several books, and is not able to publish several books in a single file.

See Section 4.3.2 for more details.

use.id.as.filename

use.id.as.filename — Use ID value of chunk elements as the filename?

Synopsis

```
<xsl:param name="use.id.as.filename" select="0"/>
```

Description

If use.id.as.filename is non-zero, the filename of chunk elements that have IDs will be derived from the ID value.

This parameter is used only when chuncking occurs, that is, when a set of books is published.

A.18 Pagination and General Styles

doc.alignment

doc.alignment — Specifies the text alignement of the document

```
<xsl:param name="doc.alignment"/>
```

Description

Defines the text alignment for the whole document. The valid values are: "left", "center", "right", "justify". An empty string is equivalent to "justify".

doc.collab.show

doc.collab.show — Print the document collaborators (authors, etc.) in a table

Synopsis

```
<xsl:param name="doc.collab.show">1</xsl:param>
```

Description

Show the collaborators (authors, contributors) defined in the document information block.

doc.layout

doc.layout — Specifies the overall document layout.

Synopsis

```
<xsl:param name="doc.layout">coverpage toc frontmatter mainmatter index </xsl:param>
```

Description

The parameter configures the overall document layout, i.e. it specifies if the document must contain a coverpage, some TOC/LOTs, a frontmatter layout (for metadata/preface/dedication rendering), an index section, etc.

See also the doc.lot.show and doc.toc.show parameters to specify the content of the TOC/LOTs.

doc.publisher.show

doc.publisher.show — Print the dblatex logo on the cover page?

```
<xsl:param name="doc.publisher.show">0</xsl:param>
```

Print the dblatex logo on the cover page for the native docbook style if the parameter is set to 1.

draft.mode

draft.mode — Select draft mode

Synopsis

```
<xsl:param name="draft.mode">maybe</xsl:param>
```

Description

Print releaseinfo in a framed box in the header, when the parameter is set to 'yes'. The releaseinfo is ignored if the parameter is set to 'no', or if the releaseinfo content is empty. When the parameter is set to 'maybe', the draft mode is deduced from the status attribute of the root element if set to 'draft'.

draft.watermark

draft.watermark — Print a Watermak on each page in draft mode?

Synopsis

```
<xsl:param name="draft.watermark">1</xsl:param>
```

Description

Print the draft text (that is, "DRAFT") as a watermark on each page, if the document is in draft mode and if the parameter is set to '1'.

latex.class.article

latex.class.article — LaTeX document class to use for article documents

Synopsis

```
<xsl:param name="latex.class.article">article</xsl:param>
```

Description

This parameter sets the document class to use for article documents.

latex.class.book

latex.class.book — LaTeX document class to use for book documents

```
<xsl:param name="latex.class.book">report</xsl:param>
```

Description

This parameter sets the document class to use for book documents.

latex.class.options

latex.class.options — Options passed to the \documentclass command

Synopsis

```
<xsl:param name="latex.class.options"/>
```

Description

Options passed to the \documentclass command.

latex.encoding

latex.encoding — Encoding of the latex document to produce

Synopsis

```
<xsl:param name="latex.encoding">latin1</xsl:param>
```

Description

Encoding of the latex document to produce. The supported values are: "latin1" and "utf8". See Section 4.11.1 for more details about how to use it.

latex.unicode.use

latex.unicode.use — Use passivetex unicode support?

Synopsis

```
<xsl:param name="latex.unicode.use">0</xsl:param>
```

Description

Set to 1 the passivetex unicode support is included, allowing to handle a wider range of Unicode characters (like cyrillic).

latex.output.revhistory

latex.output.revhistory — Print the revhistory table?

Synopsis

```
<xsl:param name="latex.output.revhistory">1</xsl:param>
```

Description

The revhistory data are formatted as a table of the revisions if the parameter is non-zero. If the parameter is zero all the revhistory data are skipped.

A.19 Font Families

cjk.font

cjk.font — Fonts to use in CJK environments

Synopsis

```
<xsl:param name="cjk.font">cyberbit</xsl:param>
```

Description

Fonts to use in CJK environments (i.e. for Chinese, Japanese or Korean documents handled by the CJK package).

xetex.font

xetex.font — Specifies the fonts that XeTeX must use

Synopsis

Description

Font specification for XeTeX. Meaningful only when the xetex backend is used.

A.20 Localization

korean.package

korean.package — Package included when Korean language is used

Synopsis

```
<xsl:param name="korean.package">CJK</xsl:param>
```

Description

When lang is set to 'ko' and the parameter is set to 'CJK' the CJK package is included to handle the Korean language.

latex.babel.language

latex.babel.language — Force the loaded babel language

Synopsis

```
<xsl:param name="latex.babel.language"/>
```

Description

This parameter forces the use of the specified babel language whatever the document language is.

latex.babel.use

latex.babel.use — Disable the use of babel, whatever the document language is

Synopsis

```
<xsl:param name="latex.babel.use">1</xsl:param>
```

Description

Set to 1 the babel package corresponding to the document language is included. Set to 0 no babel package is included whatever the document language is.