

CTAN:macros/latex/contrib/oberdiek/

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1 Overview

accsupp (contents)	2010/01/16 v0.3 Accessibility support by marked content	[pdf] [dtx]
aliascnt (contents)	2009/09/08 v1.3 Alias counter	[pdf] [dtx]
alphalph (contents)	2010/04/18 v2.3 Converting numbers to letters	[pdf] [dtx]
askinclude (contents)	2008/08/11 v2.1 Interactive asking of included files	[pdf] [dtx]
atbegshi (contents)	2010/03/25 v1.12 At begin shipout hook	[pdf] [dtx]
atenddvi (contents)	2007/04/17 v1.1 At end DVI hook	[pdf] [dtx]
attachfile2 (contents)	2009/09/25 v2.5 attach files into PDF	[pdf] [dtx]
atveryend (contents)	2010/03/24 v1.5 Hooks at very end of document	[pdf] [dtx]
auxhook (contents)	2009/12/14 v1.2 Hooks for auxiliary files	[pdf] [dtx]
bigintcalc (contents)	2007/11/11 v1.1 Expandable big integer calculations	[pdf] [dtx]
bitset (contents)	2007/09/28 v1.0 Data type bit set	[pdf] [dtx]
bmpsize (contents)	2009/09/04 v1.6 Extract size and resolution data from bitmap files	[pdf] [dtx]

bookmark (contents)	2010/04/08 v1.12 PDF bookmarks	[pdf] [dtx]
catchfile (contents)	2010/04/08 v1.4 Catches the contents of a file	[pdf] [dtx]
centernot (contents)	2010/03/29 v1.2 Centers the not symbol horizontally	[pdf] [dtx]
chemarr (contents)	2006/02/20 v1.2 Chemical reaction arrows	[pdf] [dtx]
classlist (contents)	2008/08/11 v1.3 Record loaded classes	[pdf] [dtx]
colonequals (contents)	2006/08/01 v1.0 Colon equals symbols	[pdf] [dtx]
dvipscol (contents)	2008/08/11 v1.2 Fix for dvips.def	[pdf] [dtx]
embedfile (contents)	2010/03/01 v2.5 embed files into PDF	[pdf] [dtx]
engord (contents)	2010/03/01 v1.8 Provides English ordinal numbers	[pdf] [dtx]
epstopdf (contents)	2010/02/09 v2.5 Conversion with epstopdf on the fly	[pdf] [dtx]
etexcmds (contents)	2010/01/28 v1.3 Prefix for e-TeX command names	[pdf] [dtx]
flags (contents)	2007/09/30 v0.4 Flag setting in bit fields	[pdf] [dtx]
getttitlestring (contents)	2009/12/18 v1.3 Cleanup title references	[pdf] [dtx]
grfext (contents)	2007/09/30 v1.0 Managing graphics extensions	[pdf] [dtx]
grffile (contents)	2010/01/28 v1.11 Extended file name support for graphics	[pdf] [dtx]
hologo (contents)	2010/04/16 v1.1 Logo collection	[pdf] [dtx]
holtxdoc (contents)	2010/04/18 v0.18 Private additional ltxdoc support	[pdf] [dtx]
hycolor (contents)	2009/12/12 v1.6 Color options of hyperref/bookmark	[pdf] [dtx]

hypbmsec (contents)	2007/04/11 v2.4 Bookmarks in sectioning commands	[pdf] [dtx]
hypcap (contents)	2008/09/08 v1.10 Adjusting anchors of captions	[pdf] [dtx]
hypdestopt (contents)	2008/08/08 v2.2 Hyperref destination optimizer	[pdf] [dtx]
hypdoc (contents)	2010/03/26 v1.9 Hyper extensions for doc.sty	[pdf] [dtx]
hypgotoe (contents)	2007/10/30 v0.1 Experimental links to embedded files	[pdf] [dtx]
hyphsubst (contents)	2008/06/09 v0.2 Substitute hyphenation patterns	[pdf] [dtx]
ifdraft (contents)	2008/08/11 v1.3 Switch for option draft	[pdf] [dtx]
iflang (contents)	2007/11/11 v1.5 Language checks	[pdf] [dtx]
ifluatex (contents)	2010/03/01 v1.3 Provides the ifluatex switch	[pdf] [dtx]
ifpdf (contents)	2010/01/28 v2.1 Provides the ifpdf switch	[pdf] [dtx]
ifvtex (contents)	2010/03/01 v1.5 Switches for detecting VTeX and its modes	[pdf] [dtx]
inftwarerr (contents)	2010/04/08 v1.3 Providing info/warning/message	[pdf] [dtx]
inputenx (contents)	2010/01/11 v1.6 Enhanced input encoding handling	[pdf] [dtx]
intcalc (contents)	2007/09/27 v1.1 Expandable integer calculations	[pdf] [dtx]
kvdefinekeys (contents)	2010/03/01 v1.0 Defining keys	[pdf] [dtx]
kvoptions (contents)	2010/02/22 v3.7 Keyval support for L ^A T _E X options	[pdf] [dtx]
kvsetkeys (contents)	2010/03/01 v1.9 Key value parser	[pdf] [dtx]
letltxmacro (contents)	2008/06/24 v1.3 Let assignment for L ^A T _E X macros	[pdf] [dtx]

listingsutf8 (contents)	2007/11/11 v1.1 Adding support for UTF-8 to listings	[pdf] [dtx]
ltxcmds (contents)	2010/04/16 v1.6 L ^A T _E X kernel commands for general use	[pdf] [dtx]
luacolor (contents)	2010/03/09 v1.2 Coloring based on LuaTeX's node attributes	[pdf] [dtx]
luatex (contents)	2010/03/09 v0.4 LuaTeX basic definition package	[pdf] [dtx]
magicnum (contents)	2010/03/09 v1.2 Magic numbers	[pdf] [dtx]
makerobust (contents)	2006/03/18 v1.0 Making a macro robust	[pdf] [dtx]
pagegrid (contents)	2009/12/04 v1.4 Print page grid in background	[pdf] [dtx]
pagesel (contents)	2008/08/11 v1.8 Selecting shipout output pages	[pdf] [dtx]
pdfcol (contents)	2007/12/12 v1.2 Maintaining additional color stacks for pdfTeX	[pdf] [dtx]
pdfcolfoot (contents)	2007/09/09 v1.1 pdfTeX's color stack for footnotes	[pdf] [dtx]
pdfcolmk (contents)	2008/08/11 v1.2 PDFtex COLOr MaRK	[pdf] [dtx]
pdfcolparallel (contents)	2010/01/11 v1.3 Fixed parallel with color stacks support	[pdf] [dtx]
pdfcolparcolumns (contents)	2010/01/11 v1.3 Color stacks support for parcolumns	[pdf] [dtx]
pdfcrypt (contents)	2007/04/26 v1.0 Setting pdf encryption	[pdf] [dtx]
pdfescape (contents)	2010/03/01 v1.9 Provides hex, PDF name and string conversions	[pdf] [dtx]
pdfscape (contents)	2008/08/11 v0.10 Landscape pages in PDF	[pdf] [dtx]
pdfrender (contents)	2010/01/28 v1.2 Access to some PDF graphics parameters	[pdf] [dtx]
pdftexcmds (contents)	2010/04/01 v0.9 Utility functions of pdfTeX for LuaTeX	[pdf] [dtx]

picture (contents)	2009/10/11 v1.3 Dimens for picture macros	[pdf] [dtx]
pmboxdraw (contents)	2006/05/03 v1.0 Poor man's box drawing characters	[pdf] [dtx]
refcount (contents)	2008/08/11 v3.1 Data extraction from references	[pdf] [dtx]
rerunfilecheck (contents)	2010/03/16 v1.6 Rerun checks for auxiliary files	[pdf] [dtx]
resizegather (contents)	2010/03/01 v1.2 Automatically resizing of too large equations	[pdf] [dtx]
scrindex (contents)	2008/08/11 v1.1 Package index with scr* classes	[pdf] [dtx]
selinput (contents)	2007/09/09 v1.2 Select input encoding	[pdf] [dtx]
setouterhbox (contents)	2007/09/09 v1.7 Set hbox in outer horizontal mode	[pdf] [dtx]
settobox (contents)	2008/08/11 v1.4 Getting box sizes	[pdf] [dtx]
soulutf8 (contents)	2007/09/09 v1.0 Adding support for UTF-8 to soul	[pdf] [dtx]
stackrel (contents)	2007/11/11 v1.2 Adding subscript option to stackrel	[pdf] [dtx]
stampinclude (contents)	2008/07/14 v1.0 Time stamp based including	[pdf] [dtx]
stringenc (contents)	2010/03/01 v1.8 Converts strings between encodings	[pdf] [dtx]
tabularht (contents)	2007/04/11 v2.5 Tabular with height specification	[pdf] [dtx]
tabularkv (contents)	2006/02/20 v1.1 Key value interface for tabular parameters	[pdf] [dtx]
telprint (contents)	2008/08/11 v1.10 Formatting of German phone numbers	[pdf] [dtx]
transparent (contents)	2007/01/08 v1.0 Using a pdfTeX's color stack for transparency	[pdf] [dtx]
twoopt (contents)	2008/08/11 v1.5 Definitions with two optional arguments	[pdf] [dtx]

uniquecounter	2009/12/18 v1.1	[pdf] [dtx]
(contents)	Provides unlimited unique counter	
zref	2010/04/23 v2.15	[pdf] [dtx]
(contents)	New reference scheme for L ^A T _E X 2 _ε	

2 Packages

The accsupp package

Abstract

Since PDF 1.5 portions of a page can be marked for better accessibility support. For example, replacement texts or expansions of abbreviations can be provided. Package **accsupp** starts with providing a minimal low-level interface for programmers. Status is experimental.

1 Documentation	2
1.1 Macros	2
1.1.1 Feature options	2
1.1.2 Input methods	2
1.2 Workaround, option space	3
1.3 Driver options	3
1.3.1 Option pdftex	3
1.3.2 Option dvipdfm	3
1.3.3 Option dvips	4
1.3.4 Turning off page stream compression	4
2 Example	4
2.1 Example \notparallel	4
2.2 Example with pdfstringdef	4
3 Implementation	5
3.1 Package	5
3.2 Space setup	6
3.3 Driver detection and setup	6
3.4 Main macro	7
3.4.1 Input methods	9
3.5 Drivers	9
3.5.1 Driver pdftex	9
3.5.2 Driver dvipdfm	10
3.5.3 Driver dvips	10
4 Test	10
4.1 Catcode checks for loading	10

5	Installation	11
5.1	Download	11
5.2	Bundle installation	11
5.3	Package installation	12
5.4	Refresh file name databases	12
5.5	Some details for the interested	12
6	References	13
7	History	13
	[2007/03/21 v0.1]	13
	[2007/11/14 v0.2]	13
	[2010/01/16 v0.3]	13
8	Index	13

The aliascnt package

Abstract

Package aliascnt introduces *alias counters* that share the same counter register and clear list.

1	User interface	1
1.1	Introduction	1
1.2	Syntax	2
2	Implementation	2
2.1	Identification	2
2.2	Create new alias counter	2
2.3	Counter clear list	3
3	Installation	3
3.1	Download	3
3.2	Bundle installation	4
3.3	Package installation	4
3.4	Refresh file name databases	4
3.5	Some details for the interested	4
4	Acknowledgement	5
5	References	5
6	History	5
	[2006/02/20 v1.0]	5
	[2006/08/16 v1.1]	5
	[2006/09/25 v1.2]	5
	[2009/09/08 v1.3]	5
7	Index	5

The alphaph package

Abstract

The package provides methods to represent numbers with a limited set of symbols. Both L^AT_EX and plain-T_EX are supported.

1	Documentation	2
1.1	Introduction	2
1.2	Use cases	2
1.2.1	Number system based on symbols	2
1.2.2	Wrap symbols around	3
1.2.3	Multiple symbols	3
1.3	Glossary	4
1.4	Package usage	4
1.5	User commands	4
1.6	Programmer commands	5
1.7	Design principles	5
1.7.1	Number presentation commands	5
1.7.2	General usability	6
2	Implementation	6
2.1	Begin of package	6
2.2	Catcodes	7
2.3	Package loading	8
2.4	ϵ -T _E X detection	8
2.5	Help macros	8
2.6	Symbol provider	9
2.6.1	Alphabet	9
2.7	Finding number of symbols	10
2.8	Methods	12
2.8.1	Common methods	12
2.8.2	Method ‘alph’	12
2.8.3	Method ‘wrap’	13
2.8.4	Method ‘mult’	13
2.9	User interface	14
3	Test	15
3.1	Catcode checks for loading	15
4	Macro tests	17
5	Installation	21
5.1	Download	21
5.2	Bundle installation	21
5.3	Package installation	21
5.4	Refresh file name databases	21
5.5	Some details for the interested	22

6 History	22
[1999/03/19 v0.1]	22
[1999/04/12 v1.0]	22
[1999/04/13 v1.1]	22
[1999/06/26 v1.2]	23
[2006/02/20 v1.3]	23
[2006/05/30 v1.4]	23
[2007/04/11 v1.5]	23
[2007/09/09 v2.0]	23
[2008/08/11 v2.1]	23
[2010/03/01 v2.2]	23
[2010/04/18 v2.3]	23
7 Index	23

The askinclude package

Abstract

This package replaces `\includeonly` by an interactive user interface.

1	Documentation	2
1.1	User interface	2
1.2	Single asking mode	4
1.3	Regular expressions	4
1.3.1	Method <code>makematch</code>	4
1.3.2	Method <code>pdfmatch</code>	5
1.4	History	6
1.5	New features of version 2	6
1.6	Compatibility to version 1	6
2	Implementation	6
2.1	Header and catcodes	6
2.2	Delay action after preamble	7
2.3	Write entry in <code>.aux</code> file	7
2.4	Remember <code>\include</code> files	8
2.5	Redefine <code>\include</code>	9
2.6	Store answer and match method in <code>.aux</code> file	9
2.7	Support for <code>\@includeonly</code>	9
2.8	Stop if <code>\includeonly</code> is active	10
2.9	<code>\includeonly</code>	10
2.10	Options	10
2.11	Strings	11
2.12	Set defaults	12
2.13	Questions	12
2.13.1	Generic question header	12
2.13.2	Display files	13
2.13.3	Previous answer	13
2.13.4	Current regular expression support	14
2.13.5	Main question text	14
2.13.6	Main question	14
2.14	Evaluate answer of main question	15
2.15	Ask for each file	18
3	Test	20
3.1	Included files	20
3.2	Special test setup	20
3.3	Common start	20
3.4	First run tests	23
3.5	Second run tests	28
3.6	Compatibility for changing from old to new	32
3.7	Regular expressions	33
3.8	Common end	34

4	Installation	34
4.1	Download	34
4.2	Bundle installation	35
4.3	Package installation	35
4.4	Refresh file name databases	36
4.5	Some details for the interested	36
5	Acknowledgement	36
6	References	36
7	History	37
	[1991/11/05 v0.95]	37
	[1991/11/05 v0.99]	37
	[1991/11/07 v1.0]	37
	[1991/12/13 v1.1]	37
	[1994/11/02 v1.2e]	37
	[2007/10/15 v1.0 (askinc)]	37
	[2007/10/23 v2.0]	37
	[2008/08/11 v2.1]	38
8	Index	38

The atbegshi package

Abstract

This package is a modern reimplementation of package `everyshi` without the burden of compatibility. It makes use of ε -TeX's if available. Both L^AT_EX and plain-T_EX are supported.

1	Documentation	2
1.1	Examples	4
1.1.1	Example: circle in background	4
1.1.2	Example: adding TrimBox for dvipdfmx	4
2	Method of <code>\shipout</code> overloading	5
2.1	<code>\shipout</code>	5
2.2	<code>\afterassignment</code>	5
2.3	Test for direct or indirect boxes	6
2.3.1	With ε -T _E X	6
2.3.2	Without ε -T _E X	6
2.3.3	<code>\lastkern</code> method	7
2.4	Output	8
2.5	Separate box register	8
2.6	Summary	8
2.6.1	With ε -T _E X	8
2.6.2	Without ε -T _E X, traditional way	9
2.6.3	<code>\lastkern</code> method	9
3	Implementation	10
3.1	Reload check and package identification	10
3.2	Catcodes	11
3.3	Preparations	12
3.4	Positioning	15
3.5	Patches	17
3.5.1	Package <code>crop</code>	17
3.5.2	Package <code>everyshi</code>	19
3.5.3	Class <code>memoir</code>	20
4	Test	21
4.1	Catcode checks for loading	21
5	Installation	25
5.1	Download	25
5.2	Bundle installation	25
5.3	Package installation	26
5.4	Refresh file name databases	26
5.5	Some details for the interested	26

6 History	27
[2007/04/17 v1.0]	27
[2007/04/18 v1.1]	27
[2007/04/19 v1.2]	27
[2007/04/26 v1.3]	27
[2007/04/27 v1.4]	27
[2007/06/06 v1.5]	27
[2007/09/09 v1.6]	27
[2008/07/18 v1.7]	27
[2008/07/19 v1.8]	28
[2008/07/31 v1.9]	28
[2009/12/02 v1.10]	28
[2010/03/01 v1.11]	28
[2010/03/25 v1.12]	28
7 Index	28

The atenddvi package

Abstract

L^AT_EX offers `\AtBeginDvi`. This package `atenddvi` provides the counterpart `\AtEndDvi`. The execution of its argument is delayed to the end of the document at the end of the last page. Thus `\special` and `\write` remain effective, because they are put into the last page. This is the main difference to `\AtEndDocument`.

1	Documentation	1
2	Implementation	2
3	Installation	3
3.1	Download	3
3.2	Bundle installation	4
3.3	Package installation	4
3.4	Refresh file name databases	4
3.5	Some details for the interested	4
4	History	5
	[2007/03/20 v1.0]	5
	[2007/04/17 v1.1]	5
5	Index	5

The attachfile2 package

Abstract

This package can be used to attach files to a PDF document. It is a further development of Scott Pakin's package `attachfile` for pdf_TE_X. Apart from bug fixes, package `attachfile2` adds support for `dvips`, some new options, gets and writes meta information data about the attached files.

1	Documentation	2
1.1	Introduction	2
1.1.1	Future development	2
1.2	User interface	3
1.2.1	New options	3
1.2.2	Option <code>color</code>	3
1.2.3	Perl script <code>pdfatfi.pl</code>	4
1.3	Changes to <code>attachfile</code>	4
2	Implementation	4
2.1	Package	4
2.2	Drivers	17
2.2.1	pdf _T E _X	17
2.2.2	<code>dvips</code>	19
2.3	Perl script <code>pdfatfi.pl</code>	27
3	Installation	30
3.1	Download	30
3.2	Bundle installation	31
3.3	Package installation	31
3.4	Refresh file name databases	31
3.5	Script installation	31
3.6	Some details for the interested	31
4	References	32
5	History	32
	[2005/02/23 v2.0]	32
	[2005/10/07 v2.1]	33
	[2006/08/17 v2.2]	33
	[2007/04/11 v2.3]	33
	[2008/07/29 v2.4]	33
	[2009/09/25 v2.5]	33
6	Index	33

The atveryend package

Abstract

This L^AT_EX package provides two hooks for `\end{document}` that are executed after the hook of `\AtEndDocument`. `\AfterLastShipout` can be used for code that is to be executed right after the last `\clearpage` before the `.aux` file is closed. `\AtVeryEndDocument` is used for code after closing and final reading of the `.aux` file.

1	Documentation	2
1.1	Related work	2
2	Implementation	3
2.1	Hooks	3
2.2	Redefining <code>\enddocument</code>	4
2.2.1	L ^A T _E X kernel	5
2.2.2	Package <code>booklet</code> , file <code>2up.tex</code>	6
2.2.3	Class <code>dinbrief</code>	6
2.2.4	Class <code>combine</code>	7
2.2.5	Class <code>jpsj2</code>	8
2.2.6	Testing and redefining	9
2.3	Using hooks of other packages	9
2.3.1	Package <code>scrfile</code>	9
2.3.2	Package <code>etoolbox</code>	10
2.4	Hack into <code>\enddocument</code>	10
2.5	Class <code>letter</code>	10
3	Test	12
3.1	Catcode checks for loading	12
4	Installation	13
4.1	Download	13
4.2	Bundle installation	14
4.3	Package installation	14
4.4	Refresh file name databases	14
4.5	Some details for the interested	14
5	Acknowledgement	15
6	References	15
7	History	15
	[2009/12/06 v1.0]	15
	[2009/12/07 v1.1]	16
	[2009/12/09 v1.2]	16
	[2009/12/11 v1.3]	16
	[2010/01/25 v1.4]	16
	[2010/03/24 v1.5]	16

The auxhook package

Abstract

Package auxhook provides hooks for adding stuff at the begin of .aux files.

1	User interface	1
2	Implementation	2
2.1	Identification	2
2.2	Hook setup	2
2.3	User macros	2
2.4	Patches	3
2.4.1	\document	3
2.4.2	\@include	3
3	Installation	4
3.1	Download	4
3.2	Bundle installation	4
3.3	Package installation	5
3.4	Refresh file name databases	5
3.5	Some details for the interested	5
4	References	6
5	History	6
	[2006/05/31 v1.0]	6
	[2007/04/06 v1.1]	6
	[2009/12/14 v1.2]	6
6	Index	6

The bigintcalc package

Abstract

This package provides expandable arithmetic operations with big integers that can exceed \TeX 's number limits.

1	Documentation	2
1.1	Introduction	2
1.2	Conditions	2
1.2.1	Preconditions	2
1.2.2	Postconditions	3
1.3	Error handling	3
1.4	Operations	3
1.4.1	Num	3
1.4.2	Inv, Abs, Sgn	3
1.4.3	Min, Max, Cmp	4
1.4.4	Odd	5
1.4.5	Inc, Dec, Add, Sub	5
1.4.6	Shl, Shr	5
1.4.7	Mul, Sqr, Fac, Pow	6
1.4.8	Div, Mul	6
1.5	Interface for programmers	7
2	Implementation	8
2.1	Reload check and package identification	8
2.2	Catcodes	9
2.3	ε - \TeX detection	9
2.4	Help macros	10
2.5	Expand number	10
2.6	Normalize expanded number	11
2.7	Num	12
2.8	Inv, Abs, Sgn	12
2.9	Cmp, Min, Max	13
2.10	Odd	15
2.11	Inc, Dec	15
2.12	Add, Sub	19
2.13	Shl, Shr	24
2.14	$\backslash\text{BIC@Tim}$	27
2.15	Mul	29
2.16	Sqr	30
2.17	Fac	31
2.18	Pow	32
2.18.1	Help macros	34
2.18.2	Recursive calculation	35
2.19	Div	36
2.20	Mod	42

3	Test	44
3.1	Catcode checks for loading	44
3.2	Macro tests	46
3.2.1	Preamble with test macro definitions	46
3.2.2	Time	49
3.2.3	Test sets	50
4	Installation	59
4.1	Download	59
4.2	Bundle installation	59
4.3	Package installation	59
4.4	Refresh file name databases	59
4.5	Some details for the interested	60
5	History	60
	[2007/09/27 v1.0]	60
	[2007/11/11 v1.1]	60
6	Index	60

The bitset package

Abstract

This package defines and implements the data type bit set, a vector of bits. The size of the vector may grow dynamically. Individual bits can be manipulated.

1	Documentation	3
1.1	Introduction	3
1.2	Glossary	3
1.3	Design principles	4
1.4	Operator overview	5
1.5	Package loading	5
1.6	Operators	5
1.6.1	Miscellaneous	6
1.6.2	Import	6
1.6.3	Export	6
1.6.4	Logical operators	7
1.6.5	Shifting	7
1.6.6	Bit manipulation	7
1.6.7	Bit retrieval	8
1.6.8	Bit set properties	8
1.6.9	Queries	8
2	Implementation	9
2.1	Reload check and package identification	9
2.2	Catcodes	10
2.3	Package loading	11
2.4	Help macros	11
2.4.1	Number constant	11
2.4.2	General basic macros	11
2.4.3	Tail recursion	12
2.4.4	Check macros	12
2.5	Miscellaneous	13
2.6	Import	13
2.6.1	From binary number	13
2.6.2	From octal/hex number	14
2.6.3	From decimal number	16
2.7	Export	17
2.7.1	To binary number	17
2.7.2	To octal/hexadecimal number	18
2.7.3	To decimal number	20
2.8	Logical operators	22
2.8.1	\bitsetAnd	22
2.8.2	\bitsetAndNot	23
2.8.3	\bitsetOr	24
2.8.4	\bitsetXor	25

2.8.5	Shifting	26
2.8.6	<code>\bitsetShiftLeft</code>	26
2.8.7	<code>\bitsetShiftRight</code>	26
2.9	Bit manipulation	27
2.9.1	Clear operation	28
2.9.2	Set operation	29
2.9.3	Flip operation	29
2.9.4	Range operators	30
2.10	Bit retrieval	32
2.10.1	<code>\bitsetGet</code>	32
2.10.2	<code>\bitsetNextClearBit</code> , <code>\bitsetNextSetBit</code>	32
2.10.3	<code>\bitsetGetSetBitList</code>	35
2.11	Bit set properties	35
2.12	Queries	36
3	Test	38
3.1	Catcode checks for loading	38
3.2	Macro tests	39
3.2.1	Preamble	39
3.2.2	Time	40
3.2.3	Detection of unwanted space	40
3.2.4	Test macros	40
3.2.5	Test sets	42
4	Installation	57
4.1	Download	57
4.2	Bundle installation	57
4.3	Package installation	57
4.4	Refresh file name databases	58
4.5	Some details for the interested	58
5	History	58
	[2007/09/28 v1.0]	58
6	Index	58

The **bmpsize** package

Abstract

Package **bmpsize** analyzes bitmap images to extract size and resolution data. It adds this feature to the graphics package that now do not need separate bounding box files for bitmap images. Additionally the implementation for the inclusion of bitmap images in some drivers of package **graphicx** are rewritten to support options **viewport**, **trim** and **clip**.

1 Documentation	2
1.1 Introduction	2
1.2 Bitmap image parsers	2
1.2.1 User interface	3
1.2.2 Hints	3
1.2.3 Test program	3
1.2.4 Interface for programmers	4
1.3 Improved bitmap inclusion	4
2 Implementation	4
2.1 Basic package bmpsize-base	4
2.2 Bitmap formats	11
2.2.1 png	11
2.2.2 jpg	12
2.2.3 bmp	20
2.2.4 gif	22
2.2.5 tiff	23
2.2.6 pnm	26
2.2.7 pam	30
2.2.8 xpm	36
2.2.9 tga	41
2.2.10 pcx	42
2.2.11 msp	44
2.2.12 sgi	45
2.3 Package bmpsize	45
2.4 Drivers	48
2.4.1 dvips	48
2.4.2 dvipdfm and dvipdfmx	50
2.5 Test program bmpsize-test.tex	53
3 Installation	55
3.1 Download	55
3.2 Bundle installation	55
3.3 Package installation	56
3.4 Refresh file name databases	56
3.5 Some details for the interested	56

4	References	57
4.1	URLs for bitmap format descriptions	57
4.1.1	JPEG	57
4.1.2	PNG	57
4.1.3	GIF	57
4.1.4	BMP	57
4.1.5	PCX	57
4.1.6	MSP	57
4.1.7	TIFF	57
4.1.8	TGA	57
4.1.9	SGI	58
4.1.10	WMF	58
4.1.11	XPM	58
5	History	58
	[2006/08/24 v1.0]	58
	[2007/02/18 v1.1]	58
	[2007/04/11 v1.2]	58
	[2007/05/01 v1.3]	58
	[2007/11/11 v1.4]	58
	[2008/08/11 v1.5]	58
	[2009/09/04 v1.6]	58
6	Index	59

The bookmark package

Abstract

This package implements a new bookmark (outline) organization for package `hyperref`. Bookmark properties such as style and color can now be set. Other action types are available (URI, GoToR, Named). The bookmarks are generated in the first compile run. Package `hyperref` uses two runs.

1	Documentation	2
1.1	Introduction	2
1.2	Options	3
1.2.1	Driver options	3
1.2.2	Layout options	3
1.2.3	Action options	4
1.2.4	Level options	4
1.2.5	Style definitions	5
1.2.6	Hook support	5
1.3	Compatibility with <code>hyperref</code>	6
1.4	Adding bookmarks at the end	6
1.5	Limitations/Todos	7
2	Example	7
3	Implementation	8
3.1	Package	8
3.1.1	Requirements	8
3.1.2	Package options	10
3.1.3	Action options	13
3.1.4	Option <code>atend</code>	16
3.1.5	Option <code>style</code>	17
3.1.6	Hook support	18
3.1.7	Driver setup and loading	18
3.1.8	Compatibility for <code>hyperref</code>	20
3.2	Driver for <code>dvipdfm</code>	21
3.3	Driver for <code>VT_EX</code>	24
3.4	Driver for <code>pdfT_EX</code>	28
3.5	Drivers with <code>pdfmark</code> specials	30
3.5.1	Driver <code>dvips</code>	30
3.5.2	Driver <code>dvipsone</code>	30
3.5.3	Driver <code>textures</code>	31
3.5.4	Common part	31
3.6	Common part for <code>pdf_{tex}</code> and <code>pdfmark</code>	33
3.6.1	Write auxiliary file	33
3.6.2	Read auxiliary data	35
3.7	Option <code>atend</code>	35
3.7.1	Hook	35
3.7.2	Drivers using hooks at end of document	36
3.7.3	Drivers using <code>\AtEndDvi</code>	36

4	Installation	36
4.1	Download	36
4.2	Bundle installation	37
4.3	Package installation	37
4.4	Refresh file name databases	37
4.5	Some details for the interested	37
5	History	38
[2007/02/19 v0.1]	. . . . .	38
[2007/02/20 v0.2]	. . . . .	38
[2007/02/21 v0.3]	. . . . .	38
[2007/02/22 v0.4]	. . . . .	38
[2007/03/02 v0.5]	. . . . .	38
[2007/03/03 v0.6]	. . . . .	38
[2007/03/07 v0.7]	. . . . .	39
[2007/04/09 v0.8]	. . . . .	39
[2007/04/25 v0.9]	. . . . .	39
[2007/05/29 v1.0]	. . . . .	39
[2007/07/13 v1.1]	. . . . .	39
[2007/09/25 v1.2]	. . . . .	39
[2008/08/08 v1.3]	. . . . .	39
[2008/09/13 v1.4]	. . . . .	39
[2009/08/13 v1.5]	. . . . .	39
[2009/12/06 v1.6]	. . . . .	39
[2009/12/07 v1.7]	. . . . .	39
[2009/12/17 v1.8]	. . . . .	39
[2010/03/30 v1.9]	. . . . .	40
[2010/04/03 v1.10]	. . . . .	40
[2010/04/04 v1.11]	. . . . .	40
[2010/04/08 v1.12]	. . . . .	40
6	Index	40

The catchfile package

Abstract

This package catches the contents of a file and puts it in a macro. It requires ϵ -TeX. Both L^AT_EX and plain-T_EX are supported.

1	Documentation	1
2	Implementation	2
2.1	Reload check and package identification	2
2.2	Catcodes	3
2.3	Preparations	3
2.4	Looking for primitive <code>\input</code>	4
2.5	Input file check	4
2.6	Catch file contents	5
3	Test	6
3.1	Catcode checks for loading	6
3.2	L ^A T _E X	7
3.3	plain T _E X	8
4	Installation	8
4.1	Download	8
4.2	Bundle installation	9
4.3	Package installation	9
4.4	Refresh file name databases	9
4.5	Some details for the interested	9
5	History	10
	[2007/05/30 v1.0]	10
	[2007/09/09 v1.1]	10
	[2007/11/11 v1.2]	10
	[2010/03/01 v1.3]	10
	[2010/04/08 v1.4]	10
6	Index	10

The centernot package

Abstract

This package provides `\centernot` that prints the symbol `\not` on the following argument. Unlike `\not` the symbol is horizontally centered.

1	User interface	1
2	Implementation	2
3	Installation	2
3.1	Download	2
3.2	Bundle installation	3
3.3	Package installation	3
3.4	Refresh file name databases	3
3.5	Some details for the interested	3
4	History	4
[2006/12/02 v1.0]	. . . . .	4
[2007/05/31 v1.1]	. . . . .	4
[2010/03/29 v1.2]	. . . . .	4
5	Index	4

The chemarr package

Abstract

Very often chemists need a longer version of reaction arrows (`\rightleftharpoons`) with the possibility to put text above and below. Analogous to `amsmath`'s `\xrightarrow` and `\xleftarrow` this package provides the macro `\xrightleftharpoons`.

1	Usage	1
1.1	Example	1
2	Implementation	2
3	Installation	3
3.1	Download	3
3.2	Bundle installation	3
3.3	Package installation	3
3.4	Refresh file name databases	4
3.5	Some details for the interested	4
4	History	4
	[2001/06/21 v1.0]	4
	[2001/06/22 v1.1]	4
	[2006/02/20 v1.2]	4
5	Index	5

The classlist package

Abstract

This package records the loaded classes and stores them in a list.

1	Documentation	1
1.1	Background	1
1.2	Usage	1
2	Implementation	2
3	Installation	4
3.1	Download	4
3.2	Bundle installation	4
3.3	Package installation	5
3.4	Refresh file name databases	5
3.5	Some details for the interested	5
4	History	5
	[2005/06/19 v1.0]	5
	[2005/06/19 v1.1]	6
	[2006/02/20 v1.2]	6
	[2008/08/11 v1.3]	6
5	Index	6

The colonequals package

Abstract

Package colonequals defines poor man’s symbols for math relation symbols such as “colon equals”. The colon is centered around the horizontal math axis.

1	User interface	1
1.1	Introduction	1
1.2	Symbols	2
1.3	Fine tuning	2
1.3.1	Example	3
2	Implementation	3
2.1	Identification	3
2.2	Distance control	3
2.3	Centered colons	3
2.4	Combined symbols	4
3	Installation	5
3.1	Download	5
3.2	Bundle installation	5
3.3	Package installation	5
3.4	Refresh file name databases	5
3.5	Some details for the interested	6
4	References	6
5	History	6
	[2006/08/01 v1.0]	6
6	Index	6

The dvipscol package

Abstract

Color support for dvips in dvips.def involves the color stack of dvips. The package tries to remove unnecessary uses of the stack to avoid the error “out of coor stack space”.

1	Documentation	1
1.1	Introduction	1
1.2	Usage	2
1.2.1	With ε -TEX	2
1.2.2	Without ε -TEX	2
2	Implementation	2
3	Installation	3
3.1	Download	3
3.2	Bundle installation	3
3.3	Package installation	3
3.4	Refresh file name databases	4
3.5	Some details for the interested	4
4	History	4
[2000/08/31 v1.0]	. . . . .	4
[2006/02/20 v1.1]	. . . . .	4
[2008/08/11 v1.2]	. . . . .	4
5	Index	5

The embedfile package

Abstract

This package embeds files to a PDF document. Currently the only supported driver is pdfTeX ≥ 1.30 in PDF mode.

1	Documentation	2
1.1	Introduction	2
1.1.1	Future development	2
1.2	User interface	2
1.3	Collection support (PDF 1.7)	4
1.4	Export of object references	5
1.4.1	Example	5
1.5	Examples	6
1.5.1	plain TeX	6
1.5.2	Collection example	6
1.6	Package dtx-attach	7
2	Implementation	8
2.1	Reload check and package identification	8
2.2	Catcodes	9
2.3	Tools	9
2.4	Check for recent pdfTeX in PDF mode	10
2.5	Strings	10
2.6	Switches	11
2.7	Key value definitions	12
2.8	Embed the file	17
3	Test	21
3.1	Catcode checks for loading	21
3.2	Simple test	23
3.3	Test for ini-TeX	23
4	Installation	24
4.1	Download	24
4.2	Bundle installation	24
4.3	Package installation	24
4.4	Refresh file name databases	25
4.5	Some details for the interested	25
5	References	25
6	History	26
	[2006/08/16 v1.0]	26
	[2007/04/11 v1.1]	26
	[2007/09/09 v1.2]	26
	[2007/10/28 v2.0]	26
	[2007/10/29 v2.1]	26

[2007/11/11 v2.2]	26
[2007/11/25 v2.3]	26
[2009/09/25 v2.4]	26
[2010/03/01 v2.5]	27
7 Index	28

The engord package

Abstract

The package generates the suffix of English ordinal numbers. It can be used with plain and L^AT_EX formats.

1	Usage	2
1.1	Package options	2
1.2	Examples	2
2	Implementation	3
2.1	Reload check and identification	3
2.2	Help commands for plain compatibility	4
2.3	User macros	5
2.4	Suffix generation	6
3	Test	7
3.1	Catcode checks for loading	7
4	Installation	9
4.1	Download	9
4.2	Bundle installation	9
4.3	Package installation	9
4.4	Refresh file name databases	9
4.5	Some details for the interested	10
5	History	10
	[2000/05/23 v1.0]	10
	[2003/04/28 v1.1]	10
	[2006/02/20 v1.2]	10
	[2007/04/11 v1.3]	10
	[2007/04/26 v1.4]	11
	[2007/09/09 v1.5]	11
	[2007/09/20 v1.6]	11
	[2008/08/11 v1.7]	11
	[2010/03/01 v1.8]	11
6	Index	11

The epstopdf package

Abstract

This packages adds support of handling eps images to package `graphics` or `graphicx` with option `pdftex`. If an eps image is detected, `epstopdf` is automatically called to convert it to pdf format.

1	Documentation	2
1.1	Introduction	2
1.2	Requirements	2
1.3	Usage	3
1.4	Options	3
1.5	Configuration	5
1.5.1	System configuration file <code>epstopdf-sys.cfg</code>	5
1.5.2	User configuration file <code>epstopdf.cfg</code>	5
1.5.3	Conversion program	5
1.6	Other image formats	5
2	Implementation	6
2.1	Wrapper package	6
2.1.1	Option handling	7
2.2	Base package	7
2.3	Preparations	8
2.3.1	Relead check and identification	8
2.3.2	Catcodes	9
2.3.3	Load packages	9
2.4	Checks	9
2.5	Package loading	10
2.6	Options	10
2.6.1	Default setting	10
2.7	Make and verbose	10
2.8	Adding conversion support	12
2.9	Declare graphics rule	14
3	Test	15
3.1	Preface for standard catcode check	15
3.2	Catcode checks for loading	15
4	Installation	16
4.1	Download	16
4.2	Bundle installation	17
4.3	Package installation	17
4.4	Refresh file name databases	17
4.5	Some details for the interested	17

5 History	18
[2001/01/06 v1.0]	18
[2001/02/04 v1.1]	18
[2006/02/20 v1.2]	18
[2006/08/26 v1.3]	18
[2007/04/26 v1.4]	18
[2007/10/02 v1.5]	19
[2007/11/11 v1.6]	19
[2008/05/06 v1.7]	19
[2009/03/01 v1.8]	19
[2009/07/06 v1.9]	19
[2009/07/07 v1.10]	19
[2009/07/12 v2.0]	19
[2009/07/15 v2.1]	19
[2009/07/16 v2.2]	19
[2009/09/24 v2.3]	20
[2009/10/17 v2.4]	20
[2010/02/09 v2.5]	20
6 Index	20

The etexcmds package

Abstract

New primitive commands are introduced in ε -TeX. Sometimes the names collide with existing macros. This package solves this name clashes by adding a prefix to ε -TeX's commands. For example, ε -TeX's `\unexpanded` is provided as `\etex@unexpanded`.

1	Documentation	2
1.1	<code>\unexpanded</code>	2
1.2	<code>\expanded</code>	2
2	Implementation	2
2.1	Reload check and package identification	2
2.2	Catcodes	3
2.3	Provide <code>\newif</code>	4
2.4	Load package <code>infwarerr</code>	4
2.5	<code>\unexpanded</code>	4
2.6	<code>\expanded</code>	5
3	Test	5
3.1	Catcode checks for loading	5
3.2	Macro tests	7
4	Installation	8
4.1	Download	8
4.2	Bundle installation	8
4.3	Package installation	8
4.4	Refresh file name databases	9
4.5	Some details for the interested	9
5	History	9
	[2007/05/06 v1.0]	9
	[2007/09/09 v1.1]	9
	[2007/12/12 v1.2]	9
	[2010/01/28 v1.3]	9
6	Index	10

The flags package

Abstract

Package flags allows the setting and clearing of flags in bit fields and converts the bit field into a decimal number. Currently the bit field is limited to 31 bits.

1	Documentation	1
1.1	User interface	2
1.2	Requirements	2
1.3	ToDo	2
2	Implementation	2
3	Installation	5
3.1	Download	5
3.2	Bundle installation	6
3.3	Package installation	6
3.4	Refresh file name databases	6
3.5	Some details for the interested	6
4	History	7
[2007/02/18 v0.1]	. . . . .	7
[2007/03/07 v0.2]	. . . . .	7
[2007/03/31 v0.3]	. . . . .	7
[2007/09/30 v0.4]	. . . . .	7
5	Index	7

The gettitlestring package

Abstract

The L^AT_EX package addresses packages that are dealing with references to titles (`\section`, `\caption`, ...). The package tries to remove `\label` and other commands from title strings.

1	Documentation	1
1.1	Macros	1
1.2	Options	2
2	Implementation	2
2.1	Options	4
2.2	<code>\GetTitleString</code>	4
2.2.1	Expand method	5
2.2.2	Non-expand method	5
3	Test	7
3.1	Catcode checks for loading	7
3.2	Test of non-expand method	8
4	Installation	9
4.1	Download	9
4.2	Bundle installation	9
4.3	Package installation	9
4.4	Refresh file name databases	10
4.5	Some details for the interested	10
5	References	10
6	History	11
	[2009/12/08 v1.0]	11
	[2009/12/12 v1.1]	11
	[2009/12/13 v1.2]	11
	[2009/12/18 v1.3]	11
7	Index	11

The grfext package

Abstract

This package provides macros for adding and reordering graphics extensions of package `graphics`.

1	Documentation	2
1.1	Introduction	2
1.2	User interface	2
1.3	Package loading	2
1.4	plain <code>T_EX</code>	2
2	Implementation	3
2.1	Relead check and identification	3
2.2	Catcodes	4
2.3	plain <code>T_EX</code>	4
2.4	Add	4
2.5	Check	5
2.6	Remove	6
2.7	Print	6
3	Test	7
3.1	Catcode checks for loading	7
3.2	Macro tests	8
3.2.1	Preamble	8
3.2.2	Detection of unwanted space	8
3.2.3	Generic test macros	8
3.2.4	Test for <code>\AppendGraphicsExtensions</code>	9
3.2.5	Test for <code>\PrependGraphicsExtensions</code>	9
3.2.6	Test for <code>\RemoveGraphicsExtensions</code>	10
4	Installation	11
4.1	Download	11
4.2	Bundle installation	11
4.3	Package installation	11
4.4	Refresh file name databases	11
4.5	Some details for the interested	12
5	References	12
6	History	12
	[2007/09/30 v1.0]	12
7	Index	12

The grffile package

Abstract

The package extends the file name processing of package `graphics` to support a larger range of file names. For example, the file name may contain several dots. Or in case of pdfTeX in PDF mode the file name may contain spaces.

1 Usage	2
1.1 Option <code>multidot</code>	2
1.2 Option <code>babel</code>	2
1.3 Option <code>extendedchars</code>	2
1.4 Option <code>encoding</code>	3
1.4.1 Option <code>inputencoding</code>	3
1.4.2 Option <code>filenameencoding</code>	3
1.4.3 Example	3
1.5 Option <code>space</code>	3
1.6 General use	4
1.7 Default settings	4
2 Implementation	4
2.1 Identification	4
2.2 Catcode stuff	4
2.3 Options	5
3 Test	9
3.1 Multidot with default rule	9
4 Installation	10
4.1 Download	10
4.2 Bundle installation	10
4.3 Package installation	11
4.4 Refresh file name databases	11
4.5 Some details for the interested	11
5 References	12
6 History	12
[2004/07/18 v0.5]	12
[2006/08/15 v1.0]	12
[2006/08/17 v1.1]	12
[2006/11/30 v1.2]	12
[2007/04/11 v1.3]	12
[2007/06/13 v1.4]	12
[2007/08/16 v1.5]	12
[2007/11/11 v1.6]	12
[2007/11/24 v1.7]	12
[2008/08/11 v1.8]	13
[2008/10/13 v1.9]	13

[2009/09/25 v1.10]	13
[2010/01/28 v1.11]	13
7 Index	13

The hologo package

Abstract

This package starts a collection of logos with support for bookmarks strings.

1	Documentation	2
1.1	Logo macros	2
1.2	Setup macros	2
1.3	Options	2
2	Implementation	3
2.1	Load resources	5
2.2	Setup macros	5
2.3	Options	6
2.4	Break/no-break support	7
2.5	<code>\hologo</code>	8
2.6	Helpers	10
2.7	$\mathrm{T}_{\mathrm{E}}\mathrm{X}$ and friends	11
2.7.1	$\mathrm{T}_{\mathrm{E}}\mathrm{X}$	11
2.7.2	plain $\mathrm{T}_{\mathrm{E}}\mathrm{X}$	11
2.7.3	$\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$	11
2.7.4	$\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X} 2_{\epsilon}$	12
2.7.5	ϵ - $\mathrm{T}_{\mathrm{E}}\mathrm{X}$	12
2.7.6	$\mathrm{LuaT}_{\mathrm{E}}\mathrm{X}$	13
2.7.7	$\mathrm{LuaL}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$	13
2.7.8	$\mathrm{X}_{\mathrm{E}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$, $\mathrm{X}_{\mathrm{E}}\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$	13
2.7.9	$\mathrm{pdfT}_{\mathrm{E}}\mathrm{X}$, $\mathrm{pdfL}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$	13
2.7.10	$\mathcal{A}\mathcal{M}\mathcal{S}$,	14
2.8	Driver detection	14
3	Test	18
3.1	Catcode checks for loading	18
4	Installation	19
4.1	Download	19
4.2	Bundle installation	20
4.3	Package installation	20
4.4	Refresh file name databases	20
4.5	Some details for the interested	20
5	History	21
	[2010/04/08 v1.0]	21
	[2010/04/16 v1.1]	21
6	Index	21

The holtxdoc package

Abstract

The package is used for the documentation of my packages in DTX format.
It contains some private macros and setup for my needs. Thus do not use it.
I have separated the part that may be useful for others in package hypdoc.

1	No usage	2
2	Implementation	2
2.1	Help macros	2
2.2	Date	2
2.3	History	3
2.4	Formatting macros	3
2.5	Names	5
2.6	Setup	5
2.6.1	Package doc	5
2.6.2	Page layout	6
3	Installation	6
3.1	Download	6
3.2	Bundle installation	6
3.3	Package installation	6
3.4	Refresh file name databases	7
3.5	Some details for the interested	7
4	History	7
[1999/06/26 v0.3]	. . . . .	7
[2000/08/14 v0.4]	. . . . .	7
[2001/08/27 v0.5]	. . . . .	8
[2001/09/02 v0.6]	. . . . .	8
[2006/06/02 v0.7]	. . . . .	8
[2007/10/21 v0.8]	. . . . .	8
[2007/11/11 v0.9]	. . . . .	8
[2007/12/12 v0.10]	. . . . .	8
[2008/08/11 v0.11]	. . . . .	8
[2009/08/07 v0.12]	. . . . .	8
[2009/12/02 v0.13]	. . . . .	8
[2010/02/03 v0.14]	. . . . .	8
[2010/03/10 v0.15]	. . . . .	8
[2010/04/03 v0.16]	. . . . .	8
[2010/04/08 v0.17]	. . . . .	8
[2010/04/18 v0.18]	. . . . .	8
5	Index	9

The hycolor package

Abstract

Package hycolor implements the color option stuff that is used by packages hyperref and bookmark. It is not intended as package for the user.

1	Documentation	2
1.1	Summary	2
2	Implementation	3
2.1	Normalization	3
2.1.1	Sanitize value of color option	3
2.1.2	Normalize result	4
2.2	Main algorithm for color options	5
2.3	Package bookmark	5
2.4	Utils	7
2.5	Package hyperref	8
2.5.1	Options Hyp.*color	8
2.5.2	Generic algorithm	10
2.5.3	Field options	12
2.5.4	Detection for naked RGB values	12
2.5.5	Options *bordercolor	14
2.6	Package attachfile2	15
2.7	Patch for package xcolor	17
2.7.1	Fix fragile \@frameb@x	20
3	Test	20
3.1	Test for package attachfile2	25
3.2	Test for package xcolor	27
3.2.1	Test for \@frameb@x/\fbox	28
4	Installation	28
4.1	Download	28
4.2	Bundle installation	28
4.3	Package installation	28
4.4	Refresh file name databases	29
4.5	Some details for the interested	29
5	History	29
	[2007/04/09 v1.0]	29
	[2007/04/11 v1.1]	30
	[2008/07/29 v1.2]	30
	[2008/08/01 v1.3]	30
	[2008/09/08 v1.4]	30
	[2009/10/02 v1.5]	30
	[2009/12/12 v1.6]	30
6	Index	30

The hypbmsec package

Abstract

This package expands the syntax of the sectioning commands. If the argument of the sectioning commands isn't usable as outline entry, a replacement for the bookmarks can be given.

1	Usage	2
1.1	Bookmarks restrictions	2
1.2	<code>\texorpdfstring</code>	2
1.3	Sectioning commands	2
1.4	Places for sectioning strings	2
1.5	Solution with optional arguments	2
1.6	Syntax	3
1.6.1	Star form	3
1.6.2	Without optional arguments	3
1.6.3	One optional argument	3
1.6.4	Two optional arguments	3
1.6.5	Optional argument in parentheses	3
1.7	Without <code>hyperref</code>	3
1.8	Protecting parentheses	4
2	Implementation	4
3	Installation	7
3.1	Download	7
3.2	Bundle installation	7
3.3	Package installation	7
3.4	Refresh file name databases	7
3.5	Some details for the interested	8
4	History	8
	[1998/11/20 v1.0]	8
	[1999/04/12 v2.0]	8
	[2000/03/22 v2.1]	8
	[2006/02/20 v2.2]	9
	[2007/03/05 v2.3]	9
	[2007/04/11 v2.4]	9
5	Index	9

The hypcap package

Abstract

This package tries a solution of the problem with hyperref, that links to floats points below the caption and not at the beginning of the float. Therefore this package divides the task into two part, the link setting with `\capstart` or automatically at the beginning of a float and the rest in the `\caption` command.

1	Usage	2
1.1	Package options	2
1.2	User commands	2
1.3	Limitations	3
2	Implementation	3
3	Installation	5
3.1	Download	5
3.2	Bundle installation	5
3.3	Package installation	6
3.4	Refresh file name databases	6
3.5	Some details for the interested	6
4	History	7
[1999/02/13 v1.0]	. . . . .	7
[2000/08/14 v1.1]	. . . . .	7
[2000/09/07 v1.2]	. . . . .	7
[2001/08/27 v1.3]	. . . . .	7
[2001/09/06 v1.4]	. . . . .	7
[2006/02/20 v1.5]	. . . . .	7
[2007/02/19 v1.6]	. . . . .	7
[2007/04/09 v1.7]	. . . . .	7
[2008/04/14 v1.8]	. . . . .	7
[2008/08/11 v1.9]	. . . . .	7
[2008/09/08 v1.10]	. . . . .	7
5	Index	8

The hypdestopt package

Abstract

Package hypdestopt supports hyperref's pdfTeX driver. It removes unnecessary destinations and shortens the destination names or uses numbered destinations to get smaller PDF files.

1	User interface	2
1.1	Introduction	2
1.2	Requirements	2
1.3	Use	2
1.4	Limitations	2
1.5	Future	3
2	Implementation	3
2.1	Identification	3
2.2	Options	3
2.2.1	Option <code>verbose</code>	3
2.2.2	Options <code>num</code> and <code>name</code>	3
2.3	Check requirements	4
2.4	Preamble for auxiliary file	4
2.5	Generation of destination names	4
2.6	Assign destination names	6
2.7	Redefinition of <code>hyperref</code> 's hooks	6
2.7.1	Destination setting	7
2.7.2	Links	7
2.7.3	Outlines of package <code>hyperref</code>	8
2.7.4	Outlines of package <code>bookmark</code>	8
3	Installation	9
3.1	Download	9
3.2	Bundle installation	9
3.3	Package installation	9
3.4	Refresh file name databases	9
3.5	Some details for the interested	10
4	References	10
5	History	10
	[2006/06/01 v1.0]	10
	[2006/06/01 v2.0]	10
	[2007/11/11 v2.1]	10
	[2008/08/08 v2.2]	11
6	Index	11

The hypdoc package

Abstract

This package adds hyper features to the package `doc` that is used in the documentation system of $\text{\LaTeX} 2_{\epsilon}$. Bookmarks are added and references are linked as far as possible.

1	Features	2
2	Usage	3
2.1	Options	3
2.2	Simple example	3
2.3	Example <code>source2e.tex</code>	4
3	Implementation	4
3.1	Options	4
3.2	Package loading	4
3.2.1	Patch for bug latex/4096	5
3.3	Bookmarks	5
3.4	<code>\tableofcontents</code>	6
3.5	<code>\listoffigures</code>	6
3.6	<code>\listoftables</code>	7
3.7	<code>\thebibliography</code>	7
3.8	<code>\theindex</code>	7
3.9	<code>\theglossary</code>	8
3.10	Index	9
3.11	<code>\PrintDescribeMacro</code>	11
3.12	<code>\PrintMacroName</code>	11
3.13	<code>\theCodelineNo</code>	12
3.14	<code>\SpecialUsageIndex</code>	12
3.15	<code>\autoindex</code>	12
3.16	<code>\SpecialEnvIndex</code>	13
3.17	<code>\SortIndex</code>	13
3.18	<code>\@wrglossary</code>	13
3.19	<code>\MacroIndent</code>	14
4	Installation	14
4.1	Download	14
4.2	Bundle installation	14
4.3	Package installation	15
4.4	Refresh file name databases	15
4.5	Some details for the interested	15
5	History	15
	[2002/05/10 v1.0]	15
	[2006/02/20 v1.1]	16
	[2006/04/27 v1.2]	16

[2006/06/01 v1.3]	16
[2006/06/02 v1.4]	16
[2007/04/11 v1.5]	16
[2007/11/12 v1.6]	16
[2009/12/10 v1.7]	16
[2010/02/03 v1.8]	16
[2010/03/26 v1.9]	16
6 Index	16

The hypgotoe package

Abstract

Experimental package for links to embedded files.

1	Documentation	1
1.1	Introduction	1
1.2	User interface	2
1.3	Example	2
2	Implementation	3
2.1	Identification	3
2.2	Load packages	3
2.3	Color support	3
2.4	Extend \href	3
2.5	Implement gotoe action	4
2.6	Keys for gotoe action	5
3	Installation	5
3.1	Download	5
3.2	Bundle installation	6
3.3	Package installation	6
3.4	Refresh file name databases	6
3.5	Some details for the interested	6
4	References	7
5	History	7
	[2007/10/30 v0.1]	7
6	Index	7

The hyphsubst package

Abstract

A T_EX format file may include alternative hyphenation patterns for a language with a different name. If the naming convention follows babel's rules, then the hyphenation patterns for a language can be replaced by the alternative hyphenation patterns, provided in the format file.

1	Documentation	1
1.1	In short	1
1.2	Longer version	2
1.3	L ^A T _E X	2
1.4	plain T _E X	3
2	Implementation	3
2.1	Reload check and package identification	3
2.2	Package	4
3	Test	6
3.1	Catcode checks for loading	6
3.2	Main tests	7
4	Installation	8
4.1	Download	8
4.2	Bundle installation	8
4.3	Package installation	9
4.4	Refresh file name databases	9
4.5	Some details for the interested	9
5	History	10
	[2008/06/07 v0.1]	10
	[2008/06/09 v0.2]	10
6	Index	10

The ifdraft package

Abstract

The package provides an interface for selecting code depending on the options draft and final.

1	Usage	1
1.1	Package loading	1
1.2	User macros	1
2	Implementation	2
3	Installation	3
3.1	Download	3
3.2	Bundle installation	3
3.3	Package installation	3
3.4	Refresh file name databases	4
3.5	Some details for the interested	4
4	History	4
	[1999/12/28 v1.0]	4
	[2005/10/05 v1.1]	5
	[2006/02/20 v1.2]	5
	[2008/08/11 v1.3]	5
5	Index	5

The iflang package

Abstract

This package provides expandible checks for the current language based on macro `\language` or hyphenation patterns.

1	Documentation	2
2	Implementation	2
2.1	Reload check and package identification	3
2.2	Tools	4
2.2.1	Provide some basic macros of L ^A T _E X	4
2.2.2	Expandible existence check for macros	4
2.2.3	Macros for messages	5
2.2.4	Support for <code>etex.src</code>	5
2.3	<code>\IfLanguagePatterns</code>	6
2.4	<code>\IfLanguageName</code>	6
2.5	Check plausibility of <code>\language</code>	7
3	Test	8
3.1	Catcode checks for loading	8
3.2	Test with L ^A T _E X	9
3.3	Test with plain T _E X and ε -T _E X	10
3.4	Test with plain T _E X and without ε -T _E X/pdfT _E X	11
4	Installation	12
4.1	Download	12
4.2	Bundle installation	12
4.3	Package installation	13
4.4	Refresh file name databases	13
4.5	Some details for the interested	13
5	Acknowledgement	14
6	History	14
	[2007/04/10 v1.0]	14
	[2007/04/11 v1.1]	14
	[2007/04/12 v1.2]	14
	[2007/04/26 v1.3]	14
	[2007/09/09 v1.4]	14
	[2007/11/11 v1.5]	14
7	Index	14

The ifluatex package

Abstract

This package looks for L^AT_EX regardless of its mode and provides the switch `\ifluatex`. Also it makes `\luatexversion` available if it is not present. It works with plain-T_EX or L^AT_EX.

1	Documentation	1
2	Implementation	2
2.1	Reload check and package identification	2
2.2	Catcodes	3
2.3	Macro for error messages	4
2.4	Check for previously defined <code>\ifluatex</code>	4
2.5	<code>\ifluatex</code>	4
2.6	LuaT _E X v0.39	4
2.7	Protocol entry	6
3	Test	6
3.1	Catcode checks for loading	6
4	Reload check for plain	7
5	Installation	7
5.1	Download	7
5.2	Bundle installation	8
5.3	Package installation	8
5.4	Refresh file name databases	8
5.5	Some details for the interested	8
6	History	9
	[2007/12/12 v1.0]	9
	[2009/04/10 v1.1]	9
	[2009/04/17 v1.2]	9
	[2010/03/01 v1.3]	9
7	Index	9

The ifpdf package

Abstract

This package looks for pdfTeX in pdf mode and implements and sets the switch `\ifpdf`. The detection is based on `\pdfoutput` and the package will not change this value. It works with plain or L^AT_EX formats.

1	Documentation	2
1.1	Introduction	2
1.2	Usage	2
1.3	Specification	3
2	Implementation	3
2.1	Reload check and package identification	3
2.2	Catcodes	4
2.3	Check for previously defined <code>\ifpdf</code>	5
2.4	<code>\pdfoutput</code> and LuaTeX	5
2.5	<code>\ifpdf</code>	6
2.6	Test for fool attempts	7
2.7	Protocol entry	7
3	Test	7
3.1	Catcode checks for loading	7
4	Installation	9
4.1	Download	9
4.2	Bundle installation	9
4.3	Package installation	9
4.4	Refresh file name databases	9
4.5	Some details for the interested	10
5	History	10
	[2001/06/14 v1.0]	10
	[2001/07/14 v1.1]	10
	[2001/09/26 v1.2]	10
	[2005/07/22 v1.3]	10
	[2006/02/20 v1.4]	11
	[2007/09/09 v1.5]	11
	[2007/12/12 v1.6]	11
	[2008/12/12 v1.7]	11
	[2009/04/10 v2.0]	11
	[2010/01/28 v2.1]	11
6	Index	11

The `ifvtex` package

Abstract

This package looks for \TeX , implements and sets the switches `\ifvtex`, `\ifvtex<mode>`, `\ifvtexgex`. It works with plain or \LaTeX formats.

1	Usage	1
2	Implemenation	2
2.1	Reload check and package identification	2
2.2	Catcodes	3
2.3	Check for previously defined <code>\ifvtex</code>	4
2.4	Provide <code>\newif</code>	4
2.5	<code>\ifvtex</code>	5
2.6	Mode and GeX switches	5
2.7	Protocol entry	5
3	Test	6
3.1	Catcode checks for loading	6
4	Installation	7
4.1	Download	7
4.2	Bundle installation	8
4.3	Package installation	8
4.4	Refresh file name databases	8
4.5	Some details for the interested	8
5	History	9
	[2001/09/26 v1.0]	9
	[2006/02/20 v1.1]	9
	[2007/01/10 v1.2]	9
	[2007/09/09 v1.3]	9
	[2008/11/04 v1.4]	9
	[2010/03/01 v1.5]	9
6	Index	9

The infwarerr package

Abstract

This package provides a complete set of macros for informations, warnings and error messages with support for plain- \TeX .

1	Documentation	1
2	Implementation	2
2.1	Reload check and package identification	2
2.2	Catcodes	3
2.3	\LaTeX detection	3
2.4	Version for \LaTeX	4
2.5	Version for plain \TeX	5
3	Test	7
3.1	Catcode checks for loading	7
3.2	Macro tests	9
4	Installation	12
4.1	Download	12
4.2	Bundle installation	12
4.3	Package installation	13
4.4	Refresh file name databases	13
4.5	Some details for the interested	13
5	History	14
	[2007/04/26 v1.0]	14
	[2007/06/14 v1.1]	14
	[2007/09/09 v1.2]	14
	[2010/04/08 v1.3]	14
6	Index	14

The inputenx package

Abstract

This package provides input encodings using standard mappings and covers nearly all slots. Thus it serves as more uptodate replacement for package inputenc.

1	Documentation	2
1.1	Definition files	3
1.2	Unicode	4
1.3	Math	4
1.4	Setting the input encoding	4
1.4.1	Encoding as package option	4
1.4.2	\InputEncoding	5
1.4.3	Hooks	5
2	Implementation	5
2.1	Identification	5
2.2	Encoding names	5
2.2.1	Record current encoding names	5
2.2.2	Aliases for encoding names	6
2.3	Package options	7
2.3.1	Declare and process options	7
2.3.2	Load inputenc with encoding options	7
2.3.3	\InputEncoding	7
2.3.4	Option math	8
2.4	Alias encoding file	8
2.5	Encoding files	9
2.5.1	Encoding ascii	9
2.5.2	Encoding atarist	9
2.5.3	Encoding iso-8859-1	14
2.5.4	Encoding iso-8859-2	16
2.5.5	Encoding iso-8859-3	18
2.5.6	Encoding iso-8859-4	21
2.5.7	Encoding iso-8859-5	23
2.5.8	Encoding iso-8859-8	25
2.5.9	Encoding iso-8859-9	27
2.5.10	Encoding iso-8859-10	29
2.5.11	Encoding iso-8859-13	31
2.5.12	Encoding iso-8859-14	34
2.5.13	Encoding iso-8859-15	35
2.5.14	Encoding iso-8859-16	38
2.5.15	Encoding cp437	40
2.5.16	Encoding cp850	44
2.5.17	Encoding cp852	47
2.5.18	Encoding cp855	50
2.5.19	Encoding cp858	52

2.5.20	Encoding cp865	56
2.5.21	Encoding cp866	60
2.5.22	Encoding cp1250	62
2.5.23	Encoding cp1251	65
2.5.24	Encoding cp1252	68
2.5.25	Encoding cp1257	71
2.5.26	Encoding dec-mcs	74
2.5.27	Encoding koi8-r	76
2.5.28	Encoding mac-centeuro	79
2.5.29	Encoding mac-cyrillic	81
2.5.30	Encoding mac-roman	84
2.5.31	Encoding nextstep	88
2.5.32	Non-Unicode additions	91
2.6	Additions for <code>utf8enc.dfu</code>	92
2.7	Name list	95
2.8	Mapping Slot, UC to Encodings	95
2.9	Mapping UC to LICR	95
2.10	Math meaning declarations	95
2.11	Documentation files	97
2.11.1	List of known LICR commands	97
2.11.2	Commented additions for <code>utf8enc.dfu</code>	98
3	Installation	99
3.1	Download	99
3.2	Bundle installation	99
3.3	Package installation	99
3.4	Refresh file name databases	100
3.5	Some details for the interested	100
4	References	101
4.1	Mappings to Unicode	101
5	History	102
[2006/03/05 v1.0]	. . . . .	102
[2007/04/11 v1.1]	. . . . .	102
[2007/06/16 v1.2]	. . . . .	102
[2007/08/16 v1.3]	. . . . .	102
[2009/08/13 v1.4]	. . . . .	102
[2009/12/15 v1.5]	. . . . .	103
[2010/01/11 v1.6]	. . . . .	103
6	Index	103

The intcalc package

Abstract

This package provides expandable arithmetic operations with integers.

1	Documentation	2
1.1	Introduction	2
1.2	Conditions	2
1.2.1	Preconditions	2
1.2.2	Postconditions	3
1.3	Error handling	3
1.4	Operations	3
1.4.1	Num	3
1.4.2	Inv, Abs, Sgn	4
1.4.3	Min, Max, Cmp	4
1.4.4	Inc, Dec, Add, Sub	5
1.4.5	Shl, Shr	5
1.4.6	Mul, Sqr, Fac, Pow	5
1.4.7	Div, Mod	6
1.5	Interface for programmer	6
2	Implementation	7
2.1	Reload check and package identification	7
2.2	Catcodes	8
2.3	Macros independent of ε -TeX	9
2.3.1	Abs, Sgn	9
2.3.2	Min, Max, Cmp	9
2.3.3	Fac	10
2.4	Implementation based on ε -TeX	10
2.4.1	Num	11
2.4.2	Inv, Abs, Sgn	11
2.4.3	Min, Max, Cmp	11
2.4.4	Inc, Dec	11
2.4.5	Add, Sub	12
2.4.6	Shl, Shr	12
2.4.7	Mul, Sqr, Fac	13
2.4.8	Pow	13
2.4.9	Div, Mod	14
2.5	Implementation without ε -TeX	17
2.5.1	Num	17
2.5.2	Inv, Abs, Sgn	17
2.5.3	Min, Max, Cmp	17
2.5.4	Inc, Dec	18
2.5.5	Add, Sub	20
2.5.6	Shl, Shr	27
2.5.7	\InCa@Tim	29
2.5.8	Mul	32

2.5.9	Sqr, Fac	34
2.5.10	Pow	34
2.5.11	Div	36
2.5.12	Mod	39
2.5.13	Help macros	41
3	Test	41
3.1	Catcode checks for loading	41
3.2	Macro tests	42
3.2.1	Preamble with test macro definitions	42
3.2.2	Time	46
3.2.3	Test 4: additional mod/div operations	46
3.2.4	Test sets	47
4	Installation	56
4.1	Download	56
4.2	Bundle installation	56
4.3	Package installation	56
4.4	Refresh file name databases	57
4.5	Some details for the interested	57
5	History	57
[2007/09/09 v1.0]		57
[2007/09/27 v1.1]		57
6	Index	58

The kvdefinekeys package

Abstract

Package kvdefinekeys provides `\kv@define@key` to define keys the same way as keyval's `\define@key`. However, it works also using ini-TeX.

1	Documentation	1
1.1	Motivation	1
2	Implementation	2
2.1	Identification	2
2.2	Package loading	3
2.3	Provide key defining macro	3
3	Test	4
3.1	Catcode checks for loading	4
4	Installation	5
4.1	Download	5
4.2	Bundle installation	5
4.3	Package installation	5
4.4	Refresh file name databases	6
4.5	Some details for the interested	6
5	References	6
6	History	6
	[2010/03/01 v1.0]	6
7	Index	7

The kvoptions package

Abstract

This package is intended for package authors who want to use options in key value format for their package options.

1	Introduction	3
1.1	The beginning	3
1.2	Overview	3
2	Usage	3
2.1	Process options	3
2.1.1	<code>\ProcessKeyvalOptions</code>	3
2.1.2	<code>\ProcessLocalKeyvalOptions</code>	4
2.1.3	<code>\SetupKeyvalOptions</code>	4
2.2	Option declarations	4
2.2.1	<code>\DeclareStringOption</code>	4
2.2.2	<code>\DeclareBoolOption</code>	5
2.2.3	<code>\DeclareComplementaryOption</code>	6
2.2.4	<code>\DeclareVoidOption</code>	6
2.2.5	<code>\DeclareDefaultOption</code>	6
2.2.6	Local options	7
2.2.7	Dynamic options	7
2.2.8	<code>\DisableKeyvalOption</code>	7
2.2.9	<code>\AddToKeyvalOption</code>	8
2.3	Global vs. local options	8
2.4	Summary of internal macros	9
2.5	plain <code>T_EX</code>	9
3	Example	9
4	Package options	11
4.1	Package kvoptions-patch	11
4.2	Option debugshow	12
5	Limitations	12
5.1	Compatibility	12
5.1.1	Package kvoptions-patch vs. package xkvltxp	12
5.2	Limitations	13
5.2.1	Option comparisons	13
5.2.2	Option list parsing with package kvoptions-patch	13
6	Implementation	13
6.1	Preamble	13
6.2	Option declaration macros	16
6.2.1	<code>\SetupKeyvalOptions</code>	16
6.2.2	<code>\DeclareBoolOption</code>	17
6.2.3	<code>\DeclareStringOption</code>	19

6.2.4	<code>\DeclareVoidOption</code>	20
6.2.5	<code>\DeclareDefaultOption</code>	21
6.2.6	<code>\DeclareLocalOptions</code>	21
6.3	Dynamic options	21
6.3.1	<code>\DisableKeyvalOption</code>	21
6.4	Change option code	23
6.4.1	<code>\AddToKeyvalOption</code>	23
6.5	Process options	24
6.5.1	<code>\ProcessKeyvalOptions</code>	24
6.5.2	<code>\ProcessLocalKeyvalOptions</code>	26
6.5.3	Helper macros	27
6.6	plain <code>TeX</code>	28
6.7	Package <code>kvoptions-patch</code>	28
7	Test	36
7.1	Preface for standard catcode check	36
7.2	Catcode checks for loading	36
8	Installation	39
8.1	Download	39
8.2	Bundle installation	39
8.3	Package installation	39
8.4	Refresh file name databases	40
8.5	Some details for the interested	40
9	References	40
10	History	41
	[0000/00/00 v0.0]	41
	[2004/02/22 v1.0]	41
	[2006/02/16 v2.0]	41
	[2006/02/20 v2.1]	41
	[2006/06/01 v2.2]	41
	[2006/08/17 v2.3]	41
	[2006/08/22 v2.4]	42
	[2007/04/11 v2.5]	42
	[2007/05/06 v2.6]	42
	[2007/06/11 v2.7]	42
	[2007/10/02 v2.8]	42
	[2007/10/11 v2.9]	42
	[2007/10/18 v3.0]	42
	[2009/04/10 v3.1]	42
	[2009/07/17 v3.2]	42
	[2009/07/21 v3.3]	42
	[2009/08/13 v3.4]	42
	[2009/12/04 v3.5]	42
	[2009/12/08 v3.6]	42

[2010/02/22 v3.7]	43
11 Index	43

The kvsetkeys package

Abstract

Package kvsetkeys provides `\kvsetkeys`, a variant of package keyval's `\setkeys`. It allows to specify a handler that deals with unknown options. Active commas and equal signs may be used (e.g. see `babel`'s shorthands) and only one level of curly braces is removed from the values.

1	Documentation	2
1.1	Motivation	2
1.2	Normalizing key value lists	3
1.3	Parsing key value lists	3
1.4	Processing key value pairs	4
1.5	Default family handler	4
1.6	Put it all together	4
1.7	Comma separated lists	5
2	Example	5
3	Implementation	6
3.1	Identification	6
3.2	Package loading	7
3.3	Check for ε -TeX	8
3.4	Generic help macros	8
3.5	Normalizing	8
3.6	Parsing key value lists	11
3.7	Parsing comma lists	12
3.8	Processing key value pairs	12
3.9	Error handling	13
3.10	Do it all	13
4	Test	14
4.1	Catcode checks for loading	14
4.2	Macro tests	15
4.2.1	Preamble	15
4.2.2	Time	15
4.2.3	Test sets	16
5	Installation	19
5.1	Download	19
5.2	Bundle installation	19
5.3	Package installation	19
5.4	Refresh file name databases	20
5.5	Some details for the interested	20
6	References	20

7 History	21
[2006/03/06 v1.0]	21
[2006/10/19 v1.1]	21
[2007/09/09 v1.2]	21
[2007/09/29 v1.3]	21
[2009/07/19 v1.4]	21
[2009/07/30 v1.5]	21
[2009/12/12 v1.6]	21
[2009/12/22 v1.7]	21
[2010/01/28 v1.8]	21
[2010/03/01 v1.9]	21
8 Index	22

The letltxmacro package

Abstract

T_EX's `\let` assignment does not work for L^AT_EX macros with optional arguments or for macros that are defined as robust macros by `\DeclareRobustCommand`. This package defines `\LetLtxMacro` that also takes care of the involved internal macros.

1	Documentation	1
1.1	Supported macro definition commands	2
2	Implementation	2
2.1	Show cases	2
2.1.1	letltxmacro-showcases.tex	2
2.1.2	Result	3
2.2	Package	4
2.2.1	Catcodes and identification	4
2.2.2	Main macros	5
3	Test	7
3.1	Catcode checks for loading	7
3.2	Package tests	8
4	Installation	11
4.1	Download	11
4.2	Bundle installation	11
4.3	Package installation	11
4.4	Refresh file name databases	12
4.5	Some details for the interested	12
5	History	12
	[2008/06/09 v1.0]	12
	[2008/06/12 v1.1]	13
	[2008/06/13 v1.2]	13
	[2008/06/24 v1.3]	13
6	Index	13

The listingsutf8 package

Abstract

Package listings does not support files with multi-byte encodings such as UTF-8. In case of `\lstinputlisting` a simple workaround is possible if an one-byte encoding exists that the file can be converted to. Also ε -TeX and pdfTeX regardless of its mode are required.

1	Documentation	1
1.1	User interface	1
1.2	Future	2
2	Implementation	2
2.1	Catcodes and identification	2
2.2	Package options	3
2.3	Check prerequisites	3
2.4	Add support for UTF-8	3
2.4.1	Conversion	4
2.4.2	Patch <code>\lst@InputListing</code>	4
3	Test	4
3.1	Catcode checks for loading	4
3.2	Test example for latin1	5
4	Installation	6
4.1	Download	6
4.2	Bundle installation	6
4.3	Package installation	6
4.4	Refresh file name databases	7
4.5	Some details for the interested	7
5	References	7
6	History	7
	[2007/10/22 v1.0]	7
	[2007/11/11 v1.1]	8
7	Index	8

The ltxcmds package

Abstract

The package `ltxcmds` exports some utility macros from the \LaTeX kernel into a separate namespace and also provides them for other formats such as `plain-TeX`.

1	Documentation	2
1.1	Introduction	2
1.2	Numbers	2
1.3	Argument killers	2
1.4	Argument grabbers	3
1.5	List helpers	3
1.6	Tail recursion	3
1.7	Empty macro	3
1.8	Characters	3
1.9	Boolean switch	4
1.10	Command definitions	4
1.11	Stripping	4
1.12	File management	4
1.12.1	File extensions	4
1.12.2	Load check	5
1.12.3	Version date check	5
1.13	Macro additions	5
1.14	Macro <code>\ltx@ifnextchar</code>	5
1.15	<code>\ltx@leavevmode</code> , <code>\ltx@mbox</code>	6
2	Implementation	6
2.1	Identification	6
2.2	Numbers	7
2.3	Argument killers	8
2.4	Argument grabbers	8
2.5	List helpers	8
2.6	Tail recursion	9
2.7	Empty macro	9
2.8	Characters	9
2.9	Boolean switch	9
2.10	Command definitions	10
2.11	Stripping	10
2.12	File management	11
2.12.1	File extensions	11
2.12.2	Load check	11
2.12.3	Version date check	11
2.13	Macro additions	12
2.14	Macro <code>\ltx@ifnextchar</code>	13
2.15	<code>\ltx@leavevmode</code> , <code>\ltx@mbox</code>	14

3	Test	14
3.1	Catcode checks for loading	14
4	Installation	16
4.1	Download	16
4.2	Bundle installation	16
4.3	Package installation	16
4.4	Refresh file name databases	17
4.5	Some details for the interested	17
5	History	17
[2009/08/05 v1.0]	. . . . .	17
[2009/12/12 v1.1]	. . . . .	17
[2010/01/28 v1.2]	. . . . .	17
[2010/03/01 v1.3]	. . . . .	18
[2010/03/09 v1.4]	. . . . .	18
[2010/04/08 v1.5]	. . . . .	18
[2010/04/16 v1.6]	. . . . .	18
6	Index	18

The luacolor package

Abstract

Package luacolor implements color support based on L^AT_EX's node attributes.

1	Documentation	2
1.1	Introduction	2
1.2	Usage	2
2	Implementation	2
2.1	Catcodes and identification	2
2.2	Check for LuaT _E X	3
2.3	Check for disabled colors	3
2.4	Find driver	3
2.5	Attribute setting	4
2.6	Whatsit insertion	4
2.7	Lua module	5
2.7.1	Driver detection	5
2.7.2	Color strings	6
2.7.3	Attribute register	6
2.7.4	Whatsit insertion	6
3	Test	7
3.1	Catcode checks for loading	7
3.2	Driver detection	9
3.3	Short test for plain T _E X	9
4	Installation	9
4.1	Download	9
4.2	Bundle installation	10
4.3	Package installation	10
4.4	Refresh file name databases	10
4.5	Some details for the interested	10
5	History	11
	[2007/12/12 v1.0]	11
	[2009/04/10 v1.1]	11
	[2010/03/09 v1.2]	11
6	Index	11

The luatex package

Abstract

This package manages the new and extended features and resources that L^AT_EX provides. Examples are attributes and catcode tables.

1	Documentation	2
1.1	Introduction	2
1.1.1	L ^A T _E X	2
1.1.2	plain T _E X	2
1.2	Register allocation	3
1.2.1	Register with 16 bit	3
1.2.2	Insertions	3
1.3	Attributes	3
1.4	Catcode tables	4
1.4.1	Interface proposal	4
1.5	Lua module loading	5
1.5.1	Package <code>luatex-loader</code>	6
2	Implementation	6
2.1	Reload check and package identification	6
2.2	Catcodes	7
2.3	Check for LuaT _E X	8
2.4	Provide LuaT _E X primitives	8
2.5	Inherit support for ε -T _E X	9
2.6	Adaption of ε -T _E X's register allocation	9
2.7	plain T _E X compatibility	10
2.8	Attributes	12
2.8.1	Allocation	12
2.8.2	Interface	12
2.9	Catcode tables	12
2.9.1	Allocation	12
2.9.2	<code>\SetCatcodeRange</code>	13
2.9.3	Predefined catcode tables	14
2.9.4	Number stack	14
2.9.5	Catcode regime macros	15
2.10	Lua module loader	15
2.11	Lua script	17
3	Test	17
3.1	Catcode checks for loading	17
3.2	Catcode tables	19
3.2.1	Predefined catcode tables	19
3.2.2	Catcode table number stack	20
3.2.3	Catcode table stack	20
3.2.4	Catcode regime macros	21
3.3	Attribute allocation	21
3.4	Short test for plain T _E X	21

4	Installation	22
4.1	Download	22
4.2	Bundle installation	22
4.3	Package installation	22
4.4	Refresh file name databases	23
4.5	Some details for the interested	23
5	History	23
	[2007/12/12 v0.1]	23
	[2009/04/10 v0.2]	23
	[2009/12/02 v0.3]	23
	[2010/03/09 v0.4]	23
6	Index	24

The magicnum package

Abstract

This packages allows to access magic numbers by a hierarchical name system.

1	Documentation	2
1.1	Introduction	2
1.2	User interface	2
1.2.1	<code>\magicnum</code>	2
1.2.2	Properties	2
1.3	Data	3
1.3.1	Category <code>tex.catcode</code>	3
1.3.2	Category <code>etex.grouptype</code>	3
1.3.3	Category <code>etex.ifttype</code>	4
1.3.4	Category <code>etex.nodetype</code>	4
1.3.5	Category <code>etex.interactionmode</code>	4
1.3.6	Category <code>luatex.pdfliteral.mode</code>	4
2	Implementation	4
2.1	Reload check and package identification	5
2.2	Catcodes	6
2.3	Check for previous definition	6
2.4	Without LuaTeX	6
2.5	With LuaTeX	7
2.6	Data	7
2.6.1	Plain data	7
2.6.2	Data for TeX	9
2.6.3	Lua module	11
3	Test	14
3.1	Catcode checks for loading	14
3.2	Test data	15
4	Installation	16
4.1	Download	16
4.2	Bundle installation	17
4.3	Package installation	17
4.4	Refresh file name databases	17
4.5	Some details for the interested	17
5	History	18
	[2007/12/12 v1.0]	18
	[2009/04/10 v1.1]	18
	[2010/03/09 v1.2]	18
6	Index	18

The makerobust package

Abstract

Package makerobust provides `\MakeRobustCommand` that converts an existing macro to a robust one.

1	User interface	1
1.1	Example	2
2	Implementation	2
3	Installation	3
3.1	Download	3
3.2	Bundle installation	3
3.3	Package installation	3
3.4	Refresh file name databases	4
3.5	Some details for the interested	4
4	History	4
	[2006/03/18 v1.0]	4
5	Index	5

The pagegrid package

Abstract

The L^AT_EX package prints a page grid in the background.

1	Documentation	1
1.1	Options	2
1.1.1	Options enable , disable	2
1.1.2	Grid origins	2
1.1.3	Grid unit	2
1.1.4	Color options	2
1.1.5	Arrow options	3
1.1.6	Miscellaneous options	3
2	Implementation	3
3	Test	9
3.1	Catcode checks for loading	9
4	Installation	10
4.1	Download	10
4.2	Bundle installation	11
4.3	Package installation	11
4.4	Refresh file name databases	11
4.5	Some details for the interested	11
5	Acknowledgement	12
6	History	12
[2009/11/06 v1.0]		12
[2009/11/06 v1.1]		12
[2009/12/02 v1.2]		12
[2009/12/03 v1.3]		12
[2009/12/04 v1.4]		12
7	Index	13

The pagesel package

Abstract

Single pages or page areas can be selected for output.

1	Usage	1
1.1	Page selecting	2
1.1.1	Options for selecting pages	2
1.1.2	Examples	2
1.2	Auxiliary files	2
1.2.1	Options for handling auxiliary files	2
1.2.2	Package <code>hyperref</code>	3
2	Implementation	3
2.1	Package	3
2.2	AtBeginDvi hook support	6
3	Installation	7
3.1	Download	7
3.2	Bundle installation	7
3.3	Package installation	8
3.4	Refresh file name databases	8
3.5	Some details for the interested	8
4	History	9
	[1999/03/01 v0.9]	9
	[1999/04/05 v1.0]	9
	[1999/04/13 v1.1]	9
	[2003/06/05 v1.2]	9
	[2006/02/20 v1.3]	9
	[2006/03/02 v1.4]	9
	[2006/03/07 v1.5]	9
	[2007/04/11 v1.6]	9
	[2007/04/12 v1.7]	9
	[2008/08/11 v1.8]	9
5	Index	10

The pdfcol package

Abstract

Since version 1.40 pdfTeX supports color stacks. The driver file `pdftex.def` for package `color` defines and uses a main color stack since version v0.04b. Package `pdfcol` is intended for package writers. It defines macros for setting and maintaining new color stacks.

1	Documentation	2
1.1	Requirements	2
1.2	Interface	2
2	Implementation	3
2.1	Reload check and package identification	3
2.2	Catcodes	4
2.3	Check requirements	4
2.3.1	Check package <code>luacolor</code>	5
2.3.2	Check PDF mode	5
2.3.3	Check version of pdfTeX	5
2.3.4	Check <code>pdftex.def</code>	6
2.4	Enabled interface macros	6
2.5	Disabled interface macros	8
3	Test	9
3.1	Catcode checks for loading	9
3.2	Very simple test	10
3.3	Detection of package <code>luacolor</code>	11
4	Installation	11
4.1	Download	11
4.2	Bundle installation	11
4.3	Package installation	11
4.4	Refresh file name databases	12
4.5	Some details for the interested	12
5	History	12
	[2007/09/09 v1.0]	12
	[2007/12/09 v1.1]	13
	[2007/12/12 v1.2]	13
6	Index	13

The pdfcolfoot package

Abstract

Since version 1.40 pdf_TE_X supports several color stacks. This package uses a separate color stack for footnotes that can break across pages.

1	User interface	1
1.1	Other packages or classes	2
2	Interface for package or class writers	2
2.1	Macro <code>\pdfcolfoot@switch</code>	2
2.2	Macro <code>\pdfcolfoot@current</code>	2
3	Implementation	2
3.1	Identification	2
3.2	Load package pdfcol	3
3.3	Color stack for footnotes	3
3.4	Patch <code>\@makefntext</code>	3
3.5	Patch <code>\@makecol</code>	3
4	Test	5
5	Installation	6
5.1	Download	6
5.2	Bundle installation	6
5.3	Package installation	6
5.4	Refresh file name databases	7
5.5	Some details for the interested	7
6	References	7
7	History	7
	[2007/01/08 v1.0]	7
	[2007/09/09 v1.1]	8
8	Index	8

The pdfcolmk package

Abstract

This package tries a solution for the missing color stack of pdfTeX.

1	Documentation	2
1.1	Introduction	2
1.2	Background	2
1.3	Limitations	2
1.4	Recommendation	2
1.5	Usage	2
1.6	Compatibility	2
2	Implementation	3
2.1	\marginpar fix	4
2.1.1	latex/base/latex.ltx	4
2.1.2	memoir.cls	5
2.1.3	poemscol/marn.sty, poemscol/newmarn.sty	6
2.1.4	refman/refart.cls, refnam/refrep.cls	7
2.2	Color fix	9
3	Installation	10
3.1	Download	10
3.2	Bundle installation	10
3.3	Package installation	11
3.4	Refresh file name databases	11
3.5	Some details for the interested	11
4	History	12
	[2000/08/27 v0.1]	12
	[2000/09/02 v0.2]	12
	[2000/09/02 v0.3]	12
	[2000/09/06 v0.4]	12
	[2000/09/06 v0.5]	12
	[2005/06/15 v0.6]	12
	[2005/07/09 v0.7]	12
	[2006/02/20 v0.8]	12
	[2007/01/01 v1.0]	12
	[2007/04/11 v1.1]	12
	[2008/08/11 v1.2]	12
5	Index	13

The pdfcolparallel package

Abstract

This packages fixes bugs in `parallel` and improves color support by using several color stacks that are provided by pdfTeX since version 1.40.

1	Usage	1
1.1	Option <code>rulebetweencolor</code>	2
1.2	Future	2
2	Implementation	2
2.1	Identification	2
2.2	Load and fix package <code>parallel</code>	2
2.3	Color stack support	7
2.4	Redefinitions	7
3	Test	10
4	Installation	12
4.1	Download	12
4.2	Bundle installation	12
4.3	Package installation	12
4.4	Refresh file name databases	12
4.5	Some details for the interested	13
5	References	13
6	History	13
	[2007/09/09 v1.0]	13
	[2007/12/12 v1.1]	13
	[2008/08/11 v1.2]	14
	[2010/01/11 v1.3]	14
7	Index	14

The pdfcolparcolumns package

Abstract

Since version 1.40 pdfTeX supports several color stacks. This package uses them to fix color problems in package parcolumns.

1	Usage	2
1.1	Option <code>rulebetweencolor</code>	2
1.2	Future	2
2	Implementation	2
2.1	Identification	2
2.2	Load packages	2
2.2.1	Package <code>parcolumns</code>	2
2.2.2	Package <code>pdfcol</code>	3
2.2.3	Package <code>infwarerr</code>	3
2.3	Color stack macros	3
2.4	Patches	3
2.4.1	Init stacks	3
2.4.2	Switch stack	4
2.4.3	Set current stack color	4
3	Test	6
4	Installation	7
4.1	Download	7
4.2	Bundle installation	7
4.3	Package installation	7
4.4	Refresh file name databases	7
4.5	Some details for the interested	8
5	References	8
6	History	8
	[2007/07/26 v1.0]	8
	[2007/09/09 v1.1]	8
	[2008/08/11 v1.2]	9
	[2010/01/11 v1.3]	9
7	Index	9

The pdfcrypt package

Abstract

This package supports the setting of pdf encryption options for V_TE_X and some older versions of pdfT_EX.

1	Documentation	2
1.1	Alternatives	2
1.2	Usage	2
1.2.1	Special characters	3
1.2.2	\nopdfcrypt	3
1.2.3	Configuration file	3
1.2.4	Support for plain T _E X	3
1.3	Hints for pdfT _E X	3
2	Implementation	4
2.1	Help macros for plain T _E X	4
2.2	Package Identification and checks	5
2.3	Driver detection	5
2.4	Load package keyval	6
2.5	Define options	7
2.6	support of configuration file	11
2.7	Package options	11
3	Installation	12
3.1	Download	12
3.2	Bundle installation	12
3.3	Package installation	12
3.4	Refresh file name databases	12
3.5	Some details for the interested	13
4	History	13
	[2001/04/02 v0.1]	13
	[2001/07/19 v0.2]	13
	[2001/07/19 v0.3]	13
	[2001/07/19 v0.4]	13
	[2001/08/05 v0.5]	13
	[2001/08/09 v0.6]	14
	[2001/10/28 v0.7]	14
	[2006/02/20 v0.8]	14
	[2007/04/11 v0.9]	14
	[2007/04/26 v1.0]	14
5	Index	14

The pdfescape package

Abstract

This package implements pdfTeX's escape features (`\pdfescapehex`, `\pdfunescapehex`, `\pdfescapechar`, `\pdfescapestring`) using TeX or ϵ -TeX.

1	Documentation	2
1.1	Additional unescape macros	2
1.2	Sanitizing macro	3
2	Implementation	3
2.1	Reload check and package identification	3
2.2	Catcodes	4
2.3	Sanitizing	4
2.3.1	Space characters	5
2.3.2	Space normalization	5
2.4	<code>\EdefUnescapeName</code>	6
2.5	<code>\EdefUnescapeString</code>	7
2.6	User macros (pdfTeX analogues)	10
2.7	Help macros	11
2.7.1	Characters	11
2.7.2	Switch for ϵ -TeX	12
2.8	Conversions	12
2.8.1	Conversion to hex string	12
2.8.2	Character code to octal number	13
2.8.3	Unpack hex string	13
2.8.4	Conversion to PDF name	14
2.8.5	Conversion to PDF string	15
3	Test	16
3.1	Catcode checks for loading	16
3.2	Macro tests	17
3.3	Test with <code>\pdfescape...</code> commands	17
3.4	Test without <code>\pdfescape...</code> , with ϵ -TeX	17
3.5	Test without <code>\pdfescape...</code> and ϵ -TeX	18
3.6	Test with LuaTeX	18
3.7	Check/ensure test preconditions	18
3.7.1	Check <code>\pdfescape...</code>	18
3.7.2	Check ϵ -TeX	18
3.7.3	Check LuaTeX	18
3.8	Common part	18
4	Installation	24
4.1	Download	24
4.2	Bundle installation	25
4.3	Package installation	25
4.4	Refresh file name databases	25
4.5	Some details for the interested	25

5 History	26
[2007/02/21 v1.0]	26
[2007/02/25 v1.1]	26
[2007/03/20 v1.2]	26
[2007/04/11 v1.3]	26
[2007/04/21 v1.4]	26
[2007/08/27 v1.5]	27
[2007/09/09 v1.6]	27
[2007/10/27 v1.7]	27
[2007/11/11 v1.8]	27
[2010/03/01 v1.9]	27
6 Index	27

The pdfscape package

Abstract

Package pdfscape adds PDF support to the environment landscape of package lscape by setting the PDF page attribute /Rotate.

1	Documentation	2
1.1	Supported drivers	2
1.2	Caveat	2
1.3	Requirements	2
1.4	Usage	2
2	Implementation	2
2.1	Package identification	2
2.2	Driver options	2
2.3	Autodetection of driver	3
2.3.1	Driver pdftex	3
2.3.2	Driver xetex	3
2.3.3	Detect driver based on \Gin@driver	4
2.3.4	Driver dvips	4
2.4	Driver implementation	4
2.4.1	pdfTeX	4
2.4.2	PostScript driver	5
2.4.3	Driver dvipdfm	5
2.5	Driver independent stuff	6
3	Test	7
3.1	Driver detection tests	7
3.2	Test for \PLS@CheckAngle	7
3.3	Test for rotate	8
4	Installation	10
4.1	Download	10
4.2	Bundle installation	10
4.3	Package installation	10
4.4	Refresh file name databases	11
4.5	Some details for the interested	11
5	History	11
	[2001/01/15 v0.1]	11
	[2001/02/04 v0.2]	11
	[2004/05/11 v0.3]	11
	[2004/05/12 v0.4]	12
	[2006/02/20 v0.5]	12
	[2006/04/24 v0.6]	12
	[2007/04/11 v0.7]	12
	[2007/04/17 v0.8]	12

[2007/10/21 v0.9]	12
[2008/08/11 v0.10]	12
6 Index	12

The pdfrender package

Abstract

The PDF format has some graphics parameter like line width or text rendering mode. This package provides an interface for setting these parameters.

1	Documentation	2
1.1	Usage	2
1.2	Macros	2
1.3	Parameters	2
1.3.1	Details	3
1.4	Color stack	3
2	Implementation	4
2.1	Look for pdfTeX, its mode and features	5
2.2	Enable color support of L ^A T _E X	7
2.3	Hook into \normalcolor	7
2.4	Declare and setup parameters	12
2.5	Fill and stroke color support	13
3	Test	17
3.1	Catcode checks for loading	17
3.2	Simple test file	19
3.3	Further tests	19
3.4	Compatibility with plain T _E X	21
4	Installation	21
4.1	Download	21
4.2	Bundle installation	22
4.3	Package installation	22
4.4	Refresh file name databases	22
4.5	Some details for the interested	22
5	Acknowledgement	23
6	References	23
7	History	23
	[2010/01/26 v1.0]	23
	[2010/01/27 v1.1]	23
	[2010/01/28 v1.2]	24
8	Index	25

The pdftexcmds package

Abstract

LuaTeX provides most of the commands of pdfTeX 1.40. However a number of utility functions are removed. This package tries to fill the gap and implements some of the missing primitive using Lua.

1	Documentation	2
1.1	General principles	2
1.2	Macros	3
1.2.1	Additional macro: <code>\pdf@isprimitive</code>	4
1.2.2	Experimental	4
2	Implementation	5
2.1	Reload check and package identification	5
2.2	Catcodes	6
2.3	Load package <code>infwarerr</code>	6
2.4	Without LuaTeX	7
2.5	<code>\pdf@primitive</code> , <code>\pdf@ifprimitive</code>	8
2.5.1	Using LuaTeX's <code>tex.enableprimitives</code>	8
2.5.2	Trying various names to find the primitives	8
2.5.3	Result	9
2.6	<code>X_YTeX</code>	9
2.7	<code>\pdf@isprimitive</code>	10
2.8	Load Lua module	11
2.9	Lua functions	11
2.10	Lua module	14
3	Test	18
3.1	Catcode checks for loading	18
3.2	Test for <code>\pdf@isprimitive</code>	20
4	Installation	20
4.1	Download	20
4.2	Bundle installation	21
4.3	Package installation	21
4.4	Refresh file name databases	21
4.5	Some details for the interested	21
5	History	22
	[2007/11/11 v0.1]	22
	[2007/11/12 v0.2]	22
	[2007/12/12 v0.3]	22
	[2009/04/10 v0.4]	22
	[2009/09/22 v0.5]	22
	[2009/09/23 v0.6]	22
	[2009/12/12 v0.7]	22

[2010/03/01 v0.8]	23
[2010/04/01 v0.9]	23
6 Index	23

The picture package

Abstract

There are macro and environment arguments that expect numbers that will internally be multiplied with `\unitlength`. This package extends the syntax of these arguments that `dimens` with calculation support can be added for these arguments.

1	User interface	2
1.1	Introduction	2
1.2	Options	2
1.3	Example	2
1.4	Supported packages	2
2	Implementation	3
2.1	Identification	3
2.2	Options	3
2.3	Calculation method	3
2.3.1	Method <code>calc</code>	3
2.3.2	Method <code>etex</code>	4
2.3.3	Method <code>plain</code>	4
2.3.4	Help macros	4
2.4	Redefinitions	5
2.4.1	\LaTeX base macros	6
2.4.2	Package <code>pspicture</code>	6
2.5	Check package loading order	6
3	Installation	7
3.1	Download	7
3.2	Bundle installation	7
3.3	Package installation	7
3.4	Refresh file name databases	8
3.5	Some details for the interested	8
4	History	8
	[2006/08/26 v1.0]	8
	[2007/04/11 v1.1]	8
	[2008/11/26 v1.2]	8
	[2009/10/11 v1.3]	8
5	Index	9

The pmboxdraw package

Abstract

Package pmboxdraw declares box drawings characters of old code pages, e.g. cp437. It uses rules instead of using a font.

1	User interface	1
1.1	Introduction	2
1.2	Setup	2
1.3	Symbol list	2
2	Implementation	5
2.1	Identification	5
2.2	Dummy font encoding	5
2.3	Setup	5
2.4	Block elements	5
2.4.1	U+2580	6
2.4.2	U+2584	6
2.4.3	U+2588	6
2.4.4	U+258C	6
2.4.5	U+2590	6
2.4.6	U+2591	6
2.4.7	U+2592	7
2.4.8	U+2593	7
2.4.9	Color warning	7
2.5	Box drawing, light single lines	7
2.5.1	U+2500	8
2.5.2	U+2502	8
2.5.3	U+250C	8
2.5.4	U+2510	8
2.5.5	U+2514	9
2.5.6	U+2518	9
2.5.7	U+251C	9
2.5.8	U+2524	10
2.5.9	U+252C	10
2.5.10	U+2534	10
2.5.11	U+253C	11
2.6	Box drawing, double lines	11
2.6.1	U+2550	11
2.6.2	U+2551	12
2.6.3	U+2552	12
2.6.4	U+2553	12
2.6.5	U+2554	13
2.6.6	U+2555	14
2.6.7	U+2556	14
2.6.8	U+2557	14
2.6.9	U+2558	15

2.6.10	U+2559	15
2.6.11	U+255A	16
2.6.12	U+255B	17
2.6.13	U+255C	17
2.6.14	U+255D	17
2.6.15	U+255E	18
2.6.16	U+255F	19
2.6.17	U+2560	19
2.6.18	U+2561	20
2.6.19	U+2562	20
2.6.20	U+2563	21
2.6.21	U+2564	21
2.6.22	U+2565	22
2.6.23	U+2566	22
2.6.24	U+2567	23
2.6.25	U+2568	23
2.6.26	U+2569	23
2.6.27	U+256A	24
2.6.28	U+256B	24
2.6.29	U+256C	25
2.7	Unicode support file	25
3	Installation	26
3.1	Download	26
3.2	Bundle installation	27
3.3	Package installation	27
3.4	Refresh file name databases	27
3.5	Some details for the interested	27
4	References	28
5	History	28
	[2006/05/03 v1.0]	28
6	Index	28

The refcount package

Abstract

References are not numbers, however they often store numerical data such as section or page numbers. `\ref` or `\pageref` cannot be used for counter assignments or calculations because they are not expandable, generate warnings, or can even be links. The package provides expandable macros to extract the data from references. Packages `hyperref`, `nameref`, `titleref`, and `babel` are supported.

1	Usage	1
1.1	Setting counters	1
1.2	Expandable commands	2
1.3	Undefined references	2
1.4	Notes	3
2	Implementation	3
3	Installation	5
3.1	Download	5
3.2	Bundle installation	5
3.3	Package installation	5
3.4	Refresh file name databases	6
3.5	Some details for the interested	6
4	History	6
[1998/04/08 v1.0]	. . . . .	6
[2000/09/07 v2.0]	. . . . .	7
[2006/02/20 v3.0]	. . . . .	7
[2008/08/11 v3.1]	. . . . .	7
5	Index	7

The rerunfilecheck package

Abstract

The package provides additional rerun warnings if some auxiliary files have changed. It is based on MD5 checksum, provided by pdfTeX.

1	Documentation	1
1.1	Options	2
1.2	Interface for class/package authors	2
2	Implementation	3
2.1	Options	3
2.2	Check for checksum feature	4
2.3	Standard . .aux files	4
2.4	Rerun check	7
3	Test	8
3.1	Catcode checks for loading	8
4	Installation	10
4.1	Download	10
4.2	Bundle installation	10
4.3	Package installation	10
4.4	Refresh file name databases	11
4.5	Some details for the interested	11
5	History	11
	[2009/12/10 v1.0]	11
	[2009/12/12 v1.1]	11
	[2009/12/18 v1.2]	12
	[2010/01/25 v1.3]	12
	[2010/02/22 v1.4]	12
	[2010/03/15 v1.5]	12
	[2010/03/16 v1.6]	12
6	Index	12

The **resizegather** package

Abstract

Equations that are too large are resized to fit the available space. The environment `gather` of package `amsmath` is supported. Also the environments `equation` and `displaymath` are redefined using `gather` and its starred version.

1	Documentation	1
1.1	Options	2
1.2	Options for packages <code>amsmath</code> or <code>graphics</code>	2
2	Implementation	3
3	Test	7
3.1	Catcode checks for loading	7
4	Installation	9
4.1	Download	9
4.2	Bundle installation	9
4.3	Package installation	9
4.4	Refresh file name databases	9
4.5	Some details for the interested	10
5	Acknowledgement	10
6	History	10
	[2009/12/04 v1.0]	10
	[2009/12/05 v1.1]	10
	[2010/03/01 v1.2]	10
7	Index	11

The `scrindex` package

Abstract

This package redefines environment ‘theindex’ of package `index`, if a class from KOMA-Script is loaded. Also option `idxtotoc` is supported. Index preambles can be given either by means of package `index` or via the interface provided by KOMA-Script.

1	Documentation	1
1.1	Usage	2
1.2	Preambles	2
1.2.1	Class <code>scrartcl</code>	2
1.2.2	Classes <code>scrreprt</code> and <code>scrbook</code>	2
2	Implementation	3
3	Installation	6
3.1	Download	6
3.2	Bundle installation	6
3.3	Package installation	6
3.4	Refresh file name databases	7
3.5	Some details for the interested	7
4	History	7
[2008/07/07 v1.0]	. . . . .	7
[2008/08/11 v1.1]	. . . . .	8
5	Index	8

The selinput package

Abstract

This package selects the input encoding by specifying between input characters and their glyph names.

1	Documentation	1
1.1	Introduction	1
1.2	User interface	2
1.3	Options	3
1.4	Encodings	3
2	Implementation	3
3	Test	7
4	Installation	9
4.1	Download	9
4.2	Bundle installation	9
4.3	Package installation	10
4.4	Refresh file name databases	10
4.5	Some details for the interested	10
5	References	11
6	History	11
	[2007/06/16 v1.0]	11
	[2007/06/20 v1.1]	11
	[2007/09/09 v1.2]	11
7	Index	11

The `setouterhbox` package

Abstract

If math stuff is set in an `\hbox`, then TeX performs some optimization and omits the implicate penalties `\binoppenalty` and `\relpenalty`. This package tries to put stuff into an `\hbox` without getting lost of those penalties.

1	Documentation	2
1.1	Introduction	2
1.2	Acknowledgement	2
1.3	Usage	2
1.4	Option <code>hyperref</code>	3
1.5	Example	3
2	Implementation	3
2.1	Package start stuff	3
2.2	Interface macros	5
2.3	Main part	5
2.4	Environment support	8
2.5	Option <code>hyperref</code>	8
3	Test	9
3.1	Catcode checks for loading	9
3.2	Test with package <code>url</code>	10
4	Installation	11
4.1	Download	11
4.2	Bundle installation	11
4.3	Package installation	11
4.4	Refresh file name databases	11
4.5	Some details for the interested	12
5	References	12
6	History	12
	[2005/10/05 v1.0]	12
	[2005/10/07 v1.1]	12
	[2005/10/18 v1.2]	13
	[2006/02/12 v1.3]	13
	[2006/08/26 v1.4]	13
	[2007/04/26 v1.5]	13
	[2007/05/17 v1.6]	13
	[2007/09/09 v1.7]	13
7	Index	13

The settobox package

Abstract

Commands are defined for getting box sizes similar to L^AT_EX's `\settowidth` commands.

1	Usage	1
1.1	Get box dimensions	1
1.2	Set box dimensions	2
1.3	Move box	2
1.4	Example	2
1.4.1	Short example	2
1.4.2	Test file that shows box manipulations	2
2	Implementation	4
3	Installation	6
3.1	Download	6
3.2	Bundle installation	6
3.3	Package installation	6
3.4	Refresh file name databases	7
3.5	Some details for the interested	7
4	History	7
[2000/02/11 v1.0]	. . . . .	7
[2000/09/07 v1.1]	. . . . .	7
[2006/02/20 v1.2]	. . . . .	7
[2007/04/11 v1.3]	. . . . .	8
[2008/08/11 v1.4]	. . . . .	8
5	Index	8

The soulutf8 package

Abstract

This package extends package `soul` and adds some support for UTF-8. Namely the input encodings `utf8.def` from package `inputenc` and package `ucs`'s `utf8x.def` are supported.

1	Documentation	2
1.1	Patch	2
1.2	Future	2
2	Implementation	2
2.1	Reload check and package identification	2
2.2	Catcodes	3
2.3	Loading packages	4
2.3.1	plain \TeX	4
2.3.2	\LaTeX	5
2.3.3	$\epsilon\text{-TeX}$	5
2.4	Macro for redefinitions	5
2.5	Redefinition of <code>\SOUL@eval</code>	6
2.6	UTF-8 analysis	9
2.6.1	Help strings	9
2.6.2	Support for <code>utf8.def</code>	9
2.6.3	Support for <code>utf8x.def</code>	10
2.7	Actions for UTF-8 sequences	10
2.7.1	Redefinition of <code>\SOUL@splittoken</code>	11
2.8	Patches	12
3	Test	14
3.1	Catcode checks for loading	14
3.2	\LaTeX tests	16
3.2.1	Driver definitions	17
3.2.2	Test macros	18
3.2.3	Testing	21
4	Installation	22
4.1	Download	22
4.2	Bundle installation	22
4.3	Package installation	22
4.4	Refresh file name databases	23
4.5	Some details for the interested	23
5	References	24
6	History	24
	[2007/09/09 v1.0]	24
7	Index	24

The stackrel package

Abstract

This package adds an optional argument to `\stackrel` for putting something below the relational symbol and defines `\stackbin` for binary symbols.

1	User interface	1
2	Implementation	2
3	Installation	3
3.1	Download	3
3.2	Bundle installation	3
3.3	Package installation	3
3.4	Refresh file name databases	3
3.5	Some details for the interested	4
4	History	4
[2006/12/02 v1.0]	. . . . .	4
[2007/05/06 v1.1]	. . . . .	4
[2007/11/11 v1.2]	. . . . .	4
5	Index	4

The stampinclude package

Abstract

The package replaces `\includeonly` and selects the files for `\include` by inspecting the time stamp of the `.aux` file. The file is selected for inclusion if the `.aux` file does not yet exist or is older than the corresponding `.tex` file.

1	Documentation	1
1.1	Introduction	1
1.2	Usage	2
1.3	Limitations	2
1.3.1	Other file dependencies	2
1.3.2	<code>\include</code> dependencies	2
1.3.3	Summary	3
1.4	Requirements	3
2	Implementation	3
3	Installation	4
3.1	Download	4
3.2	Bundle installation	5
3.3	Package installation	5
3.4	Refresh file name databases	5
3.5	Some details for the interested	5
4	References	6
5	History	6
	[2008/07/14 v1.0]	6
6	Index	6

The stringenc package

Abstract

This package provides `\StringEncodingConvert` for converting a string between different encodings. Both \LaTeX and plain-TeX are supported.

1	Documentation	2
1.1	User interface	2
1.2	Supported encodings	3
2	Implementation	3
2.1	Reload check and package identification	4
2.2	Catcodes	5
2.3	Tools	5
2.4	Encoding aliases	16
2.5	Encoding files	18
2.5.1	UTF-32BE, UTF-32LE	18
2.5.2	UTF-8	20
2.5.3	UTF-16LE	25
2.5.4	PDFDocEncoding	26
2.5.5	ISO-8859-1	28
2.5.6	CP1252	29
2.5.7	US-ASCII	30
2.5.8	Encoding <code>ascii-print</code>	30
2.5.9	Clean7Bit	31
2.5.10	Other encodings (8 bit)	32
3	Test	75
3.1	Catcode checks for loading	75
3.2	Conversion tests	76
3.2.1	UTF8/16/32 encodings	77
3.2.2	ASCII	79
3.2.3	PDFDocEncoding	79
3.2.4	ISO-8859-1	80
3.2.5	CP1252	80
3.2.6	KOI8-R	80
3.2.7	DEC-MCS	81
3.3	Removal of byte order marks	81
4	Installation	81
4.1	Download	81
4.2	Bundle installation	82
4.3	Package installation	82
4.4	Refresh file name databases	83
4.5	Some details for the interested	83

5 History	84
[2007/06/14 v1.0]	84
[2007/06/16 v1.1]	84
[2007/09/09 v1.2]	84
[2007/10/22 v1.3]	84
[2007/11/11 v1.4]	84
[2007/11/25 v1.5]	84
[2008/10/27 v1.6]	84
[2009/12/15 v1.7]	85
[2010/03/01 v1.8]	85
6 Index	85

The tabularht package

Abstract

This package defines some environments that adds a height specification to tabular and array.

1	Usage	1
1.1	Option vlines	2
1.2	Limitations	3
1.3	Compatibility	3
1.4	Examples	3
1.4.1	Example 1	3
1.4.2	Example 2	3
2	Implementation	4
2.1	Environments	4
2.2	Options	6
2.3	Option vlines, driver independent stuff	7
2.4	Driver pdftex	7
2.5	DVI drivers	11
3	Installation	13
3.1	Download	13
3.2	Bundle installation	13
3.3	Package installation	14
3.4	Refresh file name databases	14
3.5	Some details for the interested	14
4	History	15
[2005/09/22 v1.0]	. . . . .	15
[2005/10/16 v2.0]	. . . . .	15
[2005/10/18 v2.1]	. . . . .	15
[2006/02/20 v2.2]	. . . . .	15
[2006/12/22 v2.3]	. . . . .	15
[2007/03/21 v2.4]	. . . . .	15
[2007/04/11 v2.5]	. . . . .	15
5	Index	15

The tabularkv package

Abstract

This package adds a key value interface for tabular by the new environment `tabularkv`. Thus the \TeX source code looks better by named parameters, especially if package `tabularht` is used.

1	Usage	1
1.1	Example	2
2	Implementation	2
3	Installation	3
3.1	Download	3
3.2	Bundle installation	3
3.3	Package installation	3
3.4	Refresh file name databases	3
3.5	Some details for the interested	4
4	History	4
[2005/09/22 v1.0]	. . . . .	4
[2006/02/20 v1.1]	. . . . .	4
5	Index	4

The telprint package

Abstract

Package `telprint` provides `\telprint` for formatting German phone numbers.

1	Documentation	2
1.1	Introduction	2
1.2	Short overview in English	2
1.2.1	Configuration	2
1.3	Documentation in German	2
2	Implementation	3
2.1	Reload check and package identification	3
2.2	Catcodes	4
2.3	Package macros	5
3	Test	7
3.1	Catcode checks for loading	7
4	Installation	8
4.1	Download	8
4.2	Bundle installation	9
4.3	Package installation	9
4.4	Refresh file name databases	9
4.5	Some details for the interested	9
5	History	10
	[1996/11/28 v1.0]	10
	[1997/09/16 v1.1]	10
	[1997/10/16 v1.2]	10
	[1997/12/09 v1.3]	10
	[2004/11/02 v1.4]	10
	[2005/09/30 v1.5]	10
	[2006/02/12 v1.6]	10
	[2006/08/26 v1.7]	11
	[2007/04/11 v1.8]	11
	[2007/09/09 v1.9]	11
	[2008/08/11 v1.10]	11
6	Index	11

The transparent package

Abstract

Since version 1.40 pdfTeX supports several color stacks. This package shows, how a separate color stack can be used for transparency, a property besides color.

1	User interface	1
2	Implementation	2
2.1	Identification	2
2.2	Initial checks	2
2.2.1	Check for pdfTeX in PDF mode	2
2.2.2	Check pdfTeX version	2
2.3	Transparency	2
3	Installation	4
3.1	Download	4
3.2	Bundle installation	4
3.3	Package installation	5
3.4	Refresh file name databases	5
3.5	Some details for the interested	5
4	History	5
	[2007/01/08 v1.0]	5
5	Index	6

The twoopt package

Abstract

This package provides commands to define macros with two optional arguments.

1	Usage	1
2	Implementation	2
3	Installation	3
3.1	Download	3
3.2	Bundle installation	4
3.3	Package installation	4
3.4	Refresh file name databases	4
3.5	Some details for the interested	4
4	History	5
[1998/10/30 v1.0]	. . . . .	5
[1998/10/30 v1.1]	. . . . .	5
[1998/11/04 v1.2]	. . . . .	5
[1999/04/12 v1.3]	. . . . .	5
[2006/02/20 v1.4]	. . . . .	5
[2008/08/11 v1.5]	. . . . .	5
5	Index	6

The uniquecounter package

Abstract

This package provides a kind of counter that provides unique number values. Several counter can be created by different names. The numeric values are not limited.

1 Documentation	1
1.1 Example	2
2 Implementation	2
2.1 Reload check and package identification	2
2.2 Catcodes	3
3 Test	5
3.1 Catcode checks for loading	5
3.2 Macro tests	7
3.2.1 Test with L ^A T _E X	7
3.2.2 Test with plain-T _E X	8
4 Installation	9
4.1 Download	9
4.2 Bundle installation	10
4.3 Package installation	10
4.4 Refresh file name databases	10
4.5 Some details for the interested	10
5 History	11
[2009/09/11 v1.0]	11
[2009/12/18 v1.1]	11
6 Index	11

The zref package

Abstract

Package `zref` tries to get rid of the restriction in \LaTeX 's reference system that only two properties are supported. The package implements an extensible referencing system, where properties are handled in a more flexible way. It offers an interface for macro programmers for the access to the system and some applications that uses the new reference scheme.

1	Introduction	3
1.1	Standard \LaTeX behaviour	3
1.2	Basic idea	4
1.3	Interfaces	4
2	Interface for programmers	5
2.1	Entities	5
2.2	Property list	5
2.3	Property	6
2.4	Reference generation	6
2.5	Data extraction	7
2.6	Setup	8
2.7	Declared properties	8
2.8	Wrapper for advanced situations	8
2.9	Counter for unique names	9
3	User interface	9
3.1	Module <code>user</code>	9
3.2	Module <code>abspage</code>	10
3.3	Module <code>lastpage</code>	10
3.3.1	Tests for last page	10
3.3.2	Example	11
3.4	Module <code>thepage</code>	11
3.5	Module <code>nextpage</code>	12
3.5.1	Configuration	12
3.5.2	Example	13
3.6	Module <code>totpages</code>	13
3.7	Module <code>marks</code>	13
3.8	Module <code>runs</code>	13
3.9	Module <code>perpage</code>	14
3.10	Module <code>counter</code>	14
3.11	Module <code>titleref</code>	14
3.12	Module <code>savepos</code>	15
3.13	Module <code>dotfill</code>	15
3.14	Module <code>xr</code>	16
4	ToDo	17
5	Example	17

6 Implementation	19
6.1 Package <code>zref</code>	19
6.1.1 Identification	19
6.1.2 Load basic module	19
6.1.3 Process options	19
6.2 Module <code>base</code>	20
6.2.1 Prefixes	20
6.2.2 Identification	20
6.2.3 Utilities	20
6.2.4 Check for ϵ -TeX	21
6.2.5 Auxiliary file stuff	21
6.2.6 Property lists	22
6.2.7 Properties	23
6.2.8 Reference generation	25
6.2.9 Reference querying and extracting	26
6.2.10 Compatibility with <code>babel</code>	29
6.2.11 Unique counter support	29
6.2.12 Utilities	30
6.2.13 Setup	30
6.3 Module <code>user</code>	31
6.4 Module <code>abspage</code>	31
6.5 Module <code>counter</code>	32
6.6 Module <code>lastpage</code>	32
6.7 Module <code>thepage</code>	33
6.8 Module <code>nextpage</code>	34
6.9 Module <code>totpages</code>	35
6.10 Module <code>marks</code>	36
6.11 Module <code>runs</code>	37
6.12 Module <code>perpage</code>	38
6.13 Module <code>titleref</code>	39
6.13.1 Implementation	39
6.13.2 User interface	41
6.13.3 Patches for section and caption commands	41
6.13.4 Class <code>memoir</code>	42
6.13.5 Class <code>beamer</code>	43
6.13.6 Package <code>titlesec</code>	43
6.13.7 Package <code>longtable</code>	43
6.13.8 Package <code>listings</code>	44
6.13.9 Theorems	44
6.14 Module <code>xr</code>	44
6.15 Module <code>hyperref</code>	51
6.16 Module <code>savepos</code>	51
6.16.1 Identification	51
6.16.2 Availability	51
6.16.3 Setup	52
6.16.4 User macros	52

6.17 Module <code>dotfill</code>	52
7 Test	53
7.1 <code>\zref@localaddprop</code>	53
7.2 Module <code>base</code>	54
7.3 Module <code>runs</code>	55
7.4 Module <code>titleref</code>	55
8 Installation	56
8.1 Download	56
8.2 Bundle installation	56
8.3 Package installation	57
8.4 Refresh file name databases	57
8.5 Some details for the interested	57
9 References	58
10 History	58
[2006/02/20 v1.0]	58
[2006/05/03 v1.1]	58
[2006/05/25 v1.2]	59
[2006/09/08 v1.3]	59
[2007/01/23 v1.4]	59
[2007/02/18 v1.5]	59
[2007/04/06 v1.6]	59
[2007/04/17 v1.7]	59
[2007/04/22 v1.8]	59
[2007/05/02 v1.9]	59
[2007/05/06 v2.0]	59
[2007/05/28 v2.1]	59
[2008/09/21 v2.2]	59
[2008/10/01 v2.3]	60
[2009/08/07 v2.4]	60
[2009/12/06 v2.5]	60
[2009/12/07 v2.6]	60
[2009/12/08 v2.7]	60
[2010/03/26 v2.8]	60
[2010/03/29 v2.9]	60
[2010/04/08 v2.10]	60
[2010/04/15 v2.11]	60
[2010/04/17 v2.12]	60
[2010/04/19 v2.13]	61
[2010/04/22 v2.14]	61
[2010/04/23 v2.15]	61
11 Index	61