

The LPdoc Internals Manual

INTERNALS MANUAL

The Ciao Documentation Series

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1 Summary

This is the LPdoc internals manual, providing information on the different internal parts of `lpdoc` are their connections, which can be useful if new capabilities need to be added to the system or its libraries are used for other purposes.

2 Introduction

This is the LPdoc internals manual, providing information on the different internal parts of `lpdoc` are their connections, which can be useful if new capabilities need to be added to the system or its libraries are used for other purposes.

3 Driver for documentation generation

Author(s): Manuel Hermenegildo, Jose F. Morales.

This module implements the main driver for documentation generation.

3.1 Usage and interface

- **Library usage:**
:- use_module(lpdoc(docmaker)).
- **Exports:**
 - *Predicates:*
doc_cmd/3.
 - *Multifiles:*
fsmemo.key/2, fsmemo.deps/2, fsmemo.run/1.

3.2 Documentation on exports

doc_cmd/3: PREDICATE
 Usage: doc_cmd(InFile,Opts,Cmd)
 Treat according to Cmd InFile (which can be a doccfg-file or standalone file). Opts is the list of options (see autodoc_option/1).

3.3 Documentation on multifiles

fsmemo.key/2: PREDICATE
 The predicate is *multifile*.
Module entry condition: fsmemo.key(Action,Arg2)
 – The following properties hold at call time:
 Action is currently ground (it contains no variables). (ground/1)

fsmemo.deps/2: PREDICATE
 The predicate is *multifile*.
Module entry condition: fsmemo.deps(Action,Arg2)
 – The following properties hold at call time:
 Action is currently ground (it contains no variables). (ground/1)

fsmemo.run/1: PREDICATE
 The predicate is *multifile*.
Module entry condition: fsmemo.run(Action)
 – The following properties hold at call time:
 Action is currently ground (it contains no variables). (ground/1)

3.4 Documentation on imports

This module has the following direct dependencies:

- *Application modules:*

autodoc, autodoc_state, autodoc_images, autodoc_structure, autodoc_settings, autodoc_filesystem, autodoc_texinfo, autodoc_messages, docmod_holder.

- *System library modules:*

format, aggregates, compiler, lists, stream_utils, pathnames, fsmemo_rt, port_reify, system, opendoc, read.

- *Internal (engine) modules:*

term_basic, arithmetic, atomic_basic, basiccontrol, exceptions, term_compare, term_typing, debugger_support, basic_props, hiord_rt, internals, stream_basic.

- *Packages:*

prelude, initial, condcomp, assertions, assertions/assertions_basic, regtypes, dcg, basicmodes, fsyntax, fsmemo.

4 Documentation generation library

Author(s): Manuel Hermenegildo, Jose F. Morales.

This library provides some predicates which generate documentation automatically for a given documentation component (module, package, application, etc.), using the declarations and assertions used in the source itself as input (see the `assertions` library).

The output format in which the documentation is generated is defined by the backend modules (`autodoc_texinfo`, `autodoc_html`, `autodoc_man`, etc.).

4.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc)).`
- **Exports:**
 - *Predicates:*
`reset_output_dir_db/0, ensure_output_dir_prepared/2, get_autodoc_opts/3,`
`autodoc_gen_doctree/5, fmt_infodir_entry/3, autodoc_compute_grefs/3,`
`autodoc_translate_doctree/3, autodoc_is_operational/2, autodoc_finish/1,`
`autodoc_gen_alternative/2.`
 - *Multifiles:*
`autodoc_is_operational_hook/2, autodoc_finish_hook/1,`
`autodoc_gen_alternative_hook/2.`

4.2 Documentation on exports

reset_output_dir_db/0: PREDICATE
 No further documentation available for this predicate.

ensure_output_dir_prepared/2: PREDICATE
Usage: `ensure_output_dir_prepared(Backend, Opts)`
 Ensure that the output directories for backend `Backend` are prepared.

get_autodoc_opts/3: PREDICATE
Usage: `get_autodoc_opts(Backend, Mod, Opts)`
 Get the list of documentation options `Opts` for the `FileBase` file.

- *The following properties should hold at call time:*
 - `Backend` is an atom. (atm/1)
 - `Mod` is an atom. (atm/1)
 - `Opts` is any term. (term/1)
- *The following properties should hold upon exit:*
 - `Backend` is an atom. (atm/1)
 - `Mod` is an atom. (atm/1)
 - `Opts` is a list of `supported_options`. (list/2)

autodoc_gen_doctree/5: PREDICATE

Usage: `autodoc_gen_doctree(Backend,FileBase,FileExt,Opts,Mod)`

`FileBase` is the module specifier of the source file being documented (without extension, `FileExt` is the source extension). The output is a file whose contents document the main file, based on any assertions present in that file. The documentation is produced in the format given by `Backend` (the name of the output file also depends on `Backend`). The formats supported are given by `backend_id/1`.

- *Call and exit should be compatible with:*

<code>Backend</code> is a supported backend.	(<code>backend_id/1</code>)
<code>FileBase</code> is the base name of a file (without extension).	(<code>filename_noext/1</code>)
<code>FileExt</code> is an atom.	(<code>atm/1</code>)
<code>Opts</code> is a list of <code>supported_options</code> .	(<code>list/2</code>)
<code>Mod</code> is an atom.	(<code>atm/1</code>)

fmt_infodir_entry/3: PREDICATE

Usage: `fmt_infodir_entry(DocSt,Version,Mod)`

Generates a one line description (ASCII) of the application or library in a file for the directory of `emacs info` manuals.

- *The following properties should hold at call time:*

<code>docstate(DocSt)</code>	(<code>docstate/1</code>)
<code>Version</code> is any term.	(<code>term/1</code>)
<code>Mod</code> is the base name of a file (without extension).	(<code>filename_noext/1</code>)

autodoc_compute_grefs/3: PREDICATE

Usage:

Compute the globally resolved references (including bibliography)

autodoc_translate_doctree/3: PREDICATE

Usage:

Translate the doctree using the specific backend

autodoc_is_operational/2: PREDICATE

No further documentation available for this predicate.

autodoc_finish/1: PREDICATE

No further documentation available for this predicate.

autodoc_gen_alternative/2: PREDICATE

No further documentation available for this predicate.

4.3 Documentation on multifiles

autodoc_is_operational_hook/2: PREDICATE

No further documentation available for this predicate. The predicate is *multifile*.

autodoc_finish_hook/1: PREDICATE

No further documentation available for this predicate. The predicate is *multifile*.

autodoc_gen_alternative_hook/2: PREDICATE

No further documentation available for this predicate. The predicate is *multifile*.

4.4 Documentation on imports

This module has the following direct dependencies:

- *Application modules:*
doccfg_props, autodoc_state, autodoc_settings, autodoc_filesystem, autodoc_structure, autodoc_doctree, autodoc_refsdb, autodoc_parse, autodoc_index, comments, autodoc_messages, autodoc_html_assets, autodoc_texinfo, autodoc_aux.
- *System library modules:*
datafacts_rt, format, read, aggregates, compiler, assrt_lib, c_itf, pathnames, lists, terms, assertions_props, system, bundle_paths.
- *Internal (engine) modules:*
term_basic, arithmetic, atomic_basic, basiccontrol, exceptions, term_compare, term_typing, debugger_support, basic_props, hiord_rt, stream_basic.
- *Packages:*
prelude, initial, condcomp, assertions, assertions/assertions_basic, regtypes, dcg, basicmodes, fsyntax, datafacts.

5 Internal state for documentation generation

Author(s): Manuel Hermenegildo, Jose F. Morales.

This module defines the internal state of the documentation generation (for a single module).

5.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc_state)).`
- **Exports:**
 - *Predicates:*
`backend_ignores_components/1, backend_alt_format/2, parent_format/2, docst_backend/2, docst_currmod/2, docst_set_currmod/3, docst_opts/2, docst_set_opts/3, docst_inputfile/2, docst_pragma/2, docst_new_no_src/4, docst_new_with_src/5, docst_new_sub/3, docst_opt/2, docst_currmod_is_main/1, docst_no_components/1, docst_modname/2, labgen_init/1, labgen_clean/1, labgen_get/2, docst_mvar_lookup/3, docst_mvar_replace/4, docst_mvar_get/3, docst_mdata_clean/1, docst_mdata_assertz/2, docst_mdata_save/1, docst_gdata/3, docst_gdata_query/2, docst_gdata_query/3, docst_gdata_restore/1, docst_gdata_clean/1, docst_gvar_save/2, docst_gvar_restore/2, docst_has_index/2, all_indices/2, get_doc/4, get_doc_changes/3, get_doc_pred_varnames/2, custom_doc/2, doc_assertion_read/9, get_docdecl/4, bind_dict_varnames/1, get_mod_doc/3, pred_has_docprop/2, docst_filetype/2, get_first_loc_for_pred/3.`
 - *Regular Types:*
`backend_id/1, docstate/1.`

5.2 Documentation on exports

- | | |
|--|-----------|
| backend_id/1:
Usage: <code>backend_id(Id)</code>
Id is a supported backend. | REGTYPE |
| backend_ignores_components/1:
Usage: <code>backend_ignores_components(Id)</code>
Id does not take into account components (only documents the <i>mainfile</i>) | PREDICATE |
| backend_alt_format/2:
Usage: <code>backend_alt_format(Id,Ext)</code>
Ext is an alternative file format that can be generated by the backend Id | PREDICATE |

parent_format/2:	PREDICATE
Usage: <code>parent_format(Format,Parent)</code>	
Parent is the parent format that will generate the file with <code>Format</code> format.	
docstate/1:	REGTYPE
A regular type, defined as follows:	
<pre>docstate(docstate(Backend,Name,Opts,MVarDic,I)) :- backend_id(Backend), atom(Name), list(Opts,supported_option), dictionary(MVarDic), filename(I).</pre>	
docst_backend/2:	PREDICATE
No further documentation available for this predicate.	
docst_currmod/2:	PREDICATE
No further documentation available for this predicate.	
docst_set_currmod/3:	PREDICATE
No further documentation available for this predicate.	
docst_opts/2:	PREDICATE
No further documentation available for this predicate.	
docst_set_opts/3:	PREDICATE
No further documentation available for this predicate.	
docst_inputfile/2:	PREDICATE
No further documentation available for this predicate.	
docst_pragma/2:	PREDICATE
No further documentation available for this predicate.	
docst_new_no_src/4:	PREDICATE
No further documentation available for this predicate.	

docst_new_with_src/5: No further documentation available for this predicate.	PREDICATE
docst_new_sub/3: No further documentation available for this predicate.	PREDICATE
docst_opt/2: No further documentation available for this predicate.	PREDICATE
docst_currmod_is_main/1: No further documentation available for this predicate.	PREDICATE
docst_no_components/1: Usage: <code>docst_no_components(DocSt)</code> DocSt specify an empty list of components	PREDICATE
docst_modname/2: Usage: <code>docst_modname(DocSt, ModName)</code> ModName is the name of the module that we are documenting.	PREDICATE
labgen_init/1: No further documentation available for this predicate.	PREDICATE
labgen_clean/1: No further documentation available for this predicate.	PREDICATE
labgen_get/2: No further documentation available for this predicate.	PREDICATE
docst_mvar_lookup/3: No further documentation available for this predicate.	PREDICATE
docst_mvar_replace/4: No further documentation available for this predicate.	PREDICATE

docst_mvar_get/3:	PREDICATE
No further documentation available for this predicate.	
docst_mdata_clean/1:	PREDICATE
No further documentation available for this predicate.	
docst_mdata_assertz/2:	PREDICATE
No further documentation available for this predicate.	
docst_mdata_save/1:	PREDICATE
No further documentation available for this predicate.	
docst_gdata/3:	PREDICATE
No further documentation available for this predicate. The predicate is of type <i>data</i> .	
docst_gdata_query/2:	PREDICATE
No further documentation available for this predicate.	
docst_gdata_query/3:	PREDICATE
No further documentation available for this predicate.	
docst_gdata_restore/1:	PREDICATE
No further documentation available for this predicate.	
docst_gdata_clean/1:	PREDICATE
No further documentation available for this predicate.	
docst_gvar_save/2:	PREDICATE
No further documentation available for this predicate.	
docst_gvar_restore/2:	PREDICATE
No further documentation available for this predicate.	
docst_has_index/2:	PREDICATE
No further documentation available for this predicate.	

all_indices/2: No further documentation available for this predicate.	PREDICATE
get_doc/4: No further documentation available for this predicate.	PREDICATE
get_doc_changes/3: No further documentation available for this predicate.	PREDICATE
get_doc_pred_varnames/2: No further documentation available for this predicate.	PREDICATE
custom_doc/2: No further documentation available for this predicate. The predicate is of type <i>data</i> .	PREDICATE
doc_assertion_read/9: No further documentation available for this predicate.	PREDICATE
get_docdecl/4: No further documentation available for this predicate.	PREDICATE
bind_dict_varnames/1: Usage: <code>bind_dict_varnames(Dict)</code> Binds the variables in <code>Dict</code> to the corresponding names (i.e., the names that appeared in the source during read.	PREDICATE
get_mod_doc/3: No further documentation available for this predicate.	PREDICATE
pred_has_docprop/2: No further documentation available for this predicate.	PREDICATE
docst_filetype/2: No further documentation available for this predicate.	PREDICATE
get_first_loc_for_pred/3: No further documentation available for this predicate.	PREDICATE

5.3 Documentation on imports

This module has the following direct dependencies:

– *Application modules:*

doccfg_props, autodoc_settings, autodoc_filesystem, autodoc_structure, autodoc_doctree, autodoc_refsdb, autodoc_parse, autodoc_index, comments, autodoc_messages, autodoc_aux.

– *System library modules:*

datafacts_rt, aggregates, compiler, assrt_lib, c_itf, assertions_props, pathnames, lists, terms, dict, write, read, system.

– *Internal (engine) modules:*

term_basic, arithmetic, atomic_basic, basiccontrol, exceptions, term_compare, term_typing, debugger_support, basic_props, hiord_rt, runtime_control, stream_basic.

– *Packages:*

prelude, initial, condcomp, dcg, assertions, assertions/assertions_basic, regtypes, basicmodes, fsyntax, datafacts.

6 Documentation abstract syntax tree

Author(s): Manuel Hermenegildo (original version), Jose F. Morales.

This module defines the intermediate tree representation `doctree/1` for documentation and its related operations.

6.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc_doctree)).`
- **Exports:**
 - *Predicates:*
`cmd_type/1, doctree_is_empty/1, is_nonempty_doctree/1, empty_doctree/1, doctree_insert_end/3, doctree_insert_before_subfile_section/3, doctree_concat/3, doclink_at/2, doclink_is_local/1, section_prop/2, section_select_prop/3, doctree_save/2, doctree_restore/2, doctree_simplify/2, doctree_putvars/5, doctree_scan_and_save_refs/2, doctree_prepare_docst_translate_and_write/3, doctree_to_rawtext/3, doctree_translate_and_write/3, escape_string/4, is_version/1, version_patch/2, version_date/2, version_numstr/2, version_string/2, insert_show_toc/3.`
 - *Regular Types:*
`doctree/1, doclink/1, doclabel/1, doctokens/1.`
 - *Multifiles:*
`doc_cmd_type/1, doc_cmd_rw/2, autodoc_rw_command_hook/4, autodoc_escape_string_hook/5.`

6.2 Documentation on exports

cmd_type/1:	PREDICATE
No further documentation available for this predicate.	
doctree/1:	REGTYPE
Usage:	
Intermediate tree representation for documentation	
doctree_is_empty/1:	PREDICATE
Usage: <code>doctree_is_empty(R)</code>	
Emptiness test	
– <i>The following properties should hold at call time:</i>	
R is currently a term which is not a free variable.	(<code>nonvar/1</code>)
Intermediate tree representation for documentation	(<code>doctree/1</code>)

is_nonempty_doctree/1:	PREDICATE
Usage: <code>is_nonempty_doctree(R)</code>	
Not empty test	
– <i>The following properties should hold at call time:</i>	
R is currently a term which is not a free variable.	(<code>nonvar/1</code>)
Intermediate tree representation for documentation	(<code>doctree/1</code>)
 empty_doctree/1:	PREDICATE
Usage: <code>empty_doctree(R)</code>	
Empty	
– <i>The following properties should hold at call time:</i>	
R is a free variable.	(<code>var/1</code>)
Intermediate tree representation for documentation	(<code>doctree/1</code>)
 doctree_insert_end/3:	PREDICATE
Usage: <code>doctree_insert_end(A0,Elem,A)</code>	
Insert Elem in A0 at the end, obtaining A	
– <i>Call and exit should be compatible with:</i>	
Intermediate tree representation for documentation	(<code>doctree/1</code>)
Intermediate tree representation for documentation	(<code>doctree/1</code>)
Intermediate tree representation for documentation	(<code>doctree/1</code>)
 doctree_insert_before_subfile_section/3:	PREDICATE
Usage: <code>doctree_insert_before_subfile_section(A0,Elem,A)</code>	
Insert Elem in A0 before the first section, obtaining A. Keep A0 if Elem is already present.	
– <i>Call and exit should be compatible with:</i>	
Intermediate tree representation for documentation	(<code>doctree/1</code>)
Intermediate tree representation for documentation	(<code>doctree/1</code>)
Intermediate tree representation for documentation	(<code>doctree/1</code>)
 doctree_concat/3:	PREDICATE
No further documentation available for this predicate.	
 doclink/1:	REGTYPE
Usage:	
A link to a document label	
 doclabel/1:	REGTYPE
Usage:	
An internal label	

doclink_at/2: No further documentation available for this predicate.	PREDICATE
doclink_is_local/1: No further documentation available for this predicate.	PREDICATE
doctokens/1: Usage: Primitive doctree subset (ready for output, not further reducible)	REGTYPE
section_prop/2: No further documentation available for this predicate.	PREDICATE
section_select_prop/3: No further documentation available for this predicate.	PREDICATE
doctree_save/2: Usage: – <i>Call and exit should be compatible with:</i> Arg1 is an atom. Intermediate tree representation for documentation (atm/1) (doctree/1) – <i>The following properties should hold at call time:</i> Arg1 is currently a term which is not a free variable. Arg2 is currently a term which is not a free variable. (nonvar/1) (nonvar/1)	PREDICATE
doctree_restore/2: Usage: – <i>Call and exit should be compatible with:</i> Arg1 is an atom. Intermediate tree representation for documentation (atm/1) (doctree/1) – <i>The following properties should hold at call time:</i> Arg1 is currently a term which is not a free variable. (nonvar/1)	PREDICATE
doctree_simplify/2: No further documentation available for this predicate.	PREDICATE

- doctree_putvars/5:** PREDICATE
Usage: `doctree_putvars(R0,DocSt,PDict,VarDict,R)`
 Traverse R0 and replace each `var(Name)` doctree item with a fresh variable B. For each replacement, the term `B=Var` is introduced in `VarDict`, where `Var` is the associated value to `Name` in the dictionary `PDict`.
- *The following properties should hold at call time:*
 - Intermediate tree representation for documentation (`doctree/1`)
 - `docstate(DocSt)` (`docstate/1`)
 - *The following properties should hold upon exit:*
 - Intermediate tree representation for documentation (`doctree/1`)
- doctree_scan_and_save_refs/2:** PREDICATE
Usage: `doctree_scan_and_save_refs(R,DocSt)`
 Scan and save the references of the doctree
- *The following properties should hold at call time:*
 - Intermediate tree representation for documentation (`doctree/1`)
 - `docstate(DocSt)` (`docstate/1`)
- doctree_prepare_docst_translate_and_write/3:** PREDICATE
 No further documentation available for this predicate.
- doctree_to_rawtext/3:** PREDICATE
Usage: `doctree_to_rawtext(X,DocSt,Y)`
 Y is a simplified raw text representation of the X
- *Call and exit should be compatible with:*
 - Intermediate tree representation for documentation (`doctree/1`)
 - `docstate(DocSt)` (`docstate/1`)
 - Y is a string (a list of character codes). (`string/1`)
- doctree_translate_and_write/3:** PREDICATE
 No further documentation available for this predicate.
- escape_string/4:** PREDICATE
Usage:
 Escapes needed characters in input string as needed for the target format.
- *The following properties should hold upon exit:*
 - `Arg1` is currently instantiated to an atom. (`atom/1`)
 - `Arg2` is a string (a list of character codes). (`string/1`)
 - `docstate(Arg3)` (`docstate/1`)
 - `Arg4` is a string (a list of character codes). (`string/1`)

is_version/1:	PREDICATE
No further documentation available for this predicate.	
version_patch/2:	PREDICATE
No further documentation available for this predicate.	
version_date/2:	PREDICATE
No further documentation available for this predicate.	
version_numstr/2:	PREDICATE
Usage: <code>version_numstr(Version, Str)</code>	
Obtain the string <code>Str</code> representation of version <code>Version</code> (except date)	
version_string/2:	PREDICATE
Usage: <code>version_string(Version, Str)</code>	
Obtain the string <code>Str</code> representation of version <code>Version</code> (including date)	
insert_show_toc/3:	PREDICATE
Usage: <code>insert_show_toc(R0, DocSt, R)</code>	
Insert the command to show the table of contents in a given <code>doctree/1</code> . The right place may be different depending on the chosen backend.	

6.3 Documentation on multifiles

doc_cmd_type/1:	PREDICATE
No further documentation available for this predicate. The predicate is <i>multifile</i> .	
doc_cmd_rw/2:	PREDICATE
No further documentation available for this predicate. The predicate is <i>multifile</i> .	
autodoc_rw_command_hook/4:	PREDICATE
No further documentation available for this predicate. The predicate is <i>multifile</i> .	
autodoc_escape_string_hook/5:	PREDICATE
No further documentation available for this predicate. The predicate is <i>multifile</i> .	

6.4 Documentation on imports

This module has the following direct dependencies:

- *Application modules:*

autodoc_state, autodoc_refsdb, autodoc_index, autodoc_structure, autodoc_filesystem, autodoc_settings, comments, autodoc_messages, autodoc_texinfo, autodoc_man, autodoc_html, autodoc_nil.

- *System library modules:*

write, operators, format, pathnames, lists, read, terms.

- *Internal (engine) modules:*

term_basic, arithmetic, atomic_basic, basiccontrol, exceptions, term_compare, term_typing, debugger_support, basic_props, hiord_rt, stream_basic, runtime_control.

- *Packages:*

prelude, initial, condcomp, dcg, assertions, assertions/assertions_basic, regtypes, basicmodes, fsyntax.

7 Handling the Document Structure

Author(s): Jose F. Morales.

7.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc_structure)).`
- **Exports:**
 - *Predicates:*
`docstr_node/4, clean_docstr/0, parse_structure/0, standalone_docstr/1, get_mainmod/1, get_mainmod_spec/1, all_component_specs/1.`

7.2 Documentation on exports

docstr_node/4: PREDICATE
 No further documentation available for this predicate. The predicate is of type *data*.

clean_docstr/0: PREDICATE
 No further documentation available for this predicate.

parse_structure/0: PREDICATE
 No further documentation available for this predicate.

standalone_docstr/1: PREDICATE
 No further documentation available for this predicate.

get_mainmod/1: PREDICATE
 No further documentation available for this predicate.

get_mainmod_spec/1: PREDICATE
 No further documentation available for this predicate.

all_component_specs/1: PREDICATE
 No further documentation available for this predicate.

7.3 Documentation on imports

This module has the following direct dependencies:

- *Application modules:*

- `autodoc_settings`.

- *System library modules:*

- `datafacts_rt`, `pathnames`, `aggregates`, `terms`.

- *Internal (engine) modules:*

- `term_basic`, `arithmetic`, `atomic_basic`, `basiccontrol`, `exceptions`, `term_compare`,
`term_typing`, `debugger_support`, `basic_props`, `hiord_rt`.

- *Packages:*

- `prelude`, `initial`, `condcomp`, `dcg`, `assertions`, `assertions/assertions_basic`,
`regtypes`, `basicmodes`, `fsyntax`, `datafacts`.

8 Current documentation settings

Author(s): Jose F. Morales.

This module defines the predicates to load and access documentation configurations (modules implementing `doccfg`).

8.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc_settings)).`
- **Exports:**
 - *Predicates:*
`autodoc_option/1, settings_file/1, clean_autodoc_settings/0, load_settings/3, verify_settings/0, setting_value_or_default/2, setting_value/2, all_setting_values/2, load_vpaths/1, custom_html_layout/0, bibtex/1, tex/1, texindex/1, awk/1, dvips/1, ps2pdf/1, makeinfo/1, convertc/1.`
 - *Multifiles:*
`file_search_path/2.`

8.2 Documentation on exports

autodoc_option/1: PREDICATE
 No further documentation available for this predicate. The predicate is of type *data*.

settings_file/1: PREDICATE
 No further documentation available for this predicate. The predicate is of type *data*.

clean_autodoc_settings/0: PREDICATE
 No further documentation available for this predicate.

load_settings/3: PREDICATE
Usage: `load_settings(InFile, InKind, Opts)`
 Set configuration from `InFile` of kind `InKind` and `Opts`

verify_settings/0: PREDICATE
 No further documentation available for this predicate.

setting_value_or_default/2: PREDICATE
Usage: `setting_value_or_default(Var, Value)`
 Returns in `Value` the value of the variable `Var`. In case this variable does not exist, it returns a default value. If there is no default value for the variable `Var` it fails.

setting_value/2: No further documentation available for this predicate.	PREDICATE
all_setting_values/2: No further documentation available for this predicate.	PREDICATE
load_vpaths/1: No further documentation available for this predicate.	PREDICATE
custom_html_layout/0: No further documentation available for this predicate.	PREDICATE
bibtex/1: No further documentation available for this predicate.	PREDICATE
tex/1: No further documentation available for this predicate.	PREDICATE
texindex/1: No further documentation available for this predicate.	PREDICATE
awk/1: No further documentation available for this predicate.	PREDICATE
dvips/1: No further documentation available for this predicate.	PREDICATE
ps2pdf/1: No further documentation available for this predicate.	PREDICATE
makeinfo/1: No further documentation available for this predicate.	PREDICATE
convertc/1: No further documentation available for this predicate.	PREDICATE

8.3 Documentation on multifiles

file_search_path/2:

PREDICATE

No further documentation available for this predicate. The predicate is *multifile*.

The predicate is of type *dynamic*.

8.4 Documentation on imports

This module has the following direct dependencies:

– *Application modules:*

autodoc_messages, doccfg_holder, autodoc_filesystem.

– *System library modules:*

datafacts_rt, pathnames, aggregates, lists, system, bundle_paths.

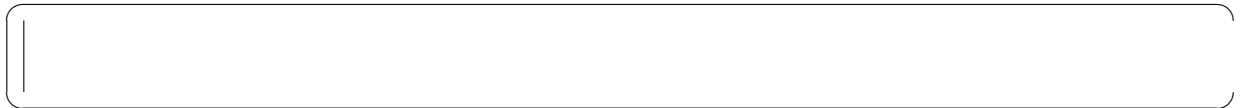
– *Internal (engine) modules:*

term_basic, arithmetic, atomic_basic, basiccontrol, exceptions, term_compare, term_typing, debugger_support, basic_props, stream_basic.

– *Packages:*

prelude, initial, condcomp, dcg, assertions, assertions/assertions_basic, regtypes, fsyntax, datafacts.

9 LPdoc backends



10 Texinfo backend

Author(s): Manuel Hermenegildo, Jose F. Morales.

This module implements the output format backend for `texinfo` (see The GNU Texinfo Documentation System manual for more info). This backend is used to generate both ps/pdf and info manuals.

In this backend the documentation for a module is a texinfo chapter, suitable for inclusion in a wrapper “main” document file.

10.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc_texinfo)).`
- **Exports:**
 - *Predicates:*
`infodir_base/2.`
 - *Multifiles:*
`autodoc_escape_string_hook/5,` `autodoc_`
`rw_command_hook/4, autodoc_is_operational_hook/2, autodoc_finish_hook/1,`
`autodoc_gen_alternative_hook/2.`

10.2 Documentation on exports

infodir_base/2:

PREDICATE

No further documentation available for this predicate.

10.3 Documentation on multifiles

autodoc_escape_string_hook/5:

PREDICATE

No further documentation available for this predicate. The predicate is *multifile*.

autodoc_rw_command_hook/4:

PREDICATE

Usage: `autodoc_rw_command_hook(Backend,DocSt,Command,NewCommand)`

- *The following properties should hold at call time:*

Backend is a supported backend.	(backend_id/1)
<code>docstate(DocSt)</code>	(docstate/1)
Intermediate tree representation for documentation	(doctree/1)
Intermediate tree representation for documentation	(doctree/1)

The predicate is *multifile*.

autodoc_is_operational_hook/2: PREDICATE
 No further documentation available for this predicate. The predicate is *multifile*.

autodoc_finish_hook/1: PREDICATE
 No further documentation available for this predicate. The predicate is *multifile*.

autodoc_gen_alternative_hook/2: PREDICATE
 No further documentation available for this predicate. The predicate is *multifile*.

10.4 Documentation on imports

This module has the following direct dependencies:

- *Application modules:*
 autodoc_state, autodoc_filesystem, autodoc_structure, autodoc_index, autodoc_doctree, autodoc_images, autodoc_settings, autodoc_aux, comments, autodoc_messages.
- *System library modules:*
 lists, terms, format, format_to_string, system, pathnames, glob, system_extra, stream_utils.
- *Internal (engine) modules:*
 term_basic, arithmetic, atomic_basic, basiccontrol, exceptions, term_compare, term_typing, debugger_support, basic_props.
- *Packages:*
 prelude, initial, condcomp, assertions, assertions/assertions_basic, regtypes, fsyntax.

11 HTML backend

Author(s): Jose F. Morales.

11.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc_html)).`

11.2 Documentation on multifiles

autodoc_escape_string_hook/5: PREDICATE
 No further documentation available for this predicate. The predicate is *multifile*.

autodoc_rw_command_hook/4: PREDICATE
Usage: `autodoc_rw_command_hook(Backend, DocSt, Command, NewCommand)`
 – *The following properties should hold at call time:*
 Backend is a supported backend. (backend_id/1)
 docstate(DocSt) (docstate/1)
 Intermediate tree representation for documentation (doctree/1)
 Intermediate tree representation for documentation (doctree/1)
 The predicate is *multifile*.

autodoc_is_operational_hook/2: PREDICATE
 No further documentation available for this predicate. The predicate is *multifile*.

autodoc_finish_hook/1: PREDICATE
 No further documentation available for this predicate. The predicate is *multifile*.

autodoc_gen_alternative_hook/2: PREDICATE
 No further documentation available for this predicate. The predicate is *multifile*.

11.3 Documentation on imports

This module has the following direct dependencies:

- *Application modules:*

autodoc_state, autodoc_structure, autodoc_filesystem, autodoc_doctree, autodoc_index, autodoc_refsdb, autodoc_images, autodoc_settings, autodoc_messages, comments, autodoc_html_template, autodoc_html_assets.

- *System library modules:*

lists, aggregates, dict, pathnames, format_to_string, syntax_highlight, system, system_extra, stream_utils.

- *Internal (engine) modules:*

term_basic, arithmetic, atomic_basic, basiccontrol, exceptions, term_compare, term_typing, debugger_support, basic_props.

- *Packages:*

prelude, initial, condcomp, assertions, assertions/assertions_basic, regtypes, fsyntax.

12 Assets for the HTML backend

Author(s): Jose F. Morales.

Predicates to manage asset data (file hierarchies for images, CSS files, JavaScript code, etc.) to be used in the output of the HTML backend.

12.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc_html_assets)).`
- **Exports:**
 - *Predicates:*
`prepare_html_assets/2, asset_file/2, using_mathjax/1.`

12.2 Documentation on exports

prepare_html_assets/2: PREDICATE
 No further documentation available for this predicate.

asset_file/2: PREDICATE
 No further documentation available for this predicate.

using_mathjax/1: PREDICATE
 No further documentation available for this predicate.

12.3 Documentation on imports

This module has the following direct dependencies:

- *Application modules:*
`autodoc_messages, autodoc_settings, autodoc_filesystem.`
- *System library modules:*
`datafacts_rt, lists, pathnames, system, bundle_paths, source_tree.`
- *Internal (engine) modules:*
`term_basic, arithmetic, atomic_basic, basiccontrol, exceptions, term_compare,
 term_typing, debugger_support, basic_props, hiord_rt.`
- *Packages:*
`prelude, initial, condcomp, assertions, assertions/assertions_basic, isomodes,
 fsyntax, datafacts.`

13 Template support for the HTML backend

Author(s): Jose F. Morales.

13.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc_html_template)).`
- **Exports:**
 - *Predicates:*
`prefix_htmlurl/2, img_url/2, fmt_html_template/3.`

13.2 Documentation on exports

prefix_htmlurl/2:	PREDICATE
Usage: <code>prefix_htmlurl(Path,Path2)</code>	
Prefix Path with value of <code>htmlurl</code> (if needed)	
– <i>Call and exit should be compatible with:</i>	
Path is an atom.	(<code>atom/1</code>)
Path2 is an atom.	(<code>atom/1</code>)
 img_url/2:	 PREDICATE
Usage: <code>img_url(Name,Url)</code>	
Obtain the URL where image <code>Name</code> is or will be found.	
– <i>Call and exit should be compatible with:</i>	
Name is an atom.	(<code>atom/1</code>)
Url is a string (a list of character codes).	(<code>string/1</code>)
 fmt_html_template/3:	 PREDICATE
No further documentation available for this predicate.	

13.3 Documentation on imports

This module has the following direct dependencies:

- *Application modules:*
`autodoc_settings.`
- *System library modules:*
`system, stream_utils, pathnames, lists, html.`
- *Internal (engine) modules:*
`term_basic, arithmetic, atomic_basic, basiccontrol, exceptions, term_compare, term_typing, debugger_support, basic_props, stream_basic.`
- *Packages:*
`prelude, initial, condcomp, assertions, assertions/assertions_basic, fsyntax.`

14 Man Pages (man) backend

Author(s): Jose F. Morales, Manuel Hermenegildo.

This module implements some limited support for direct output in unix `man` format.

14.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc_man)).`

14.2 Documentation on multifiles

autodoc_rw_command_hook/4: PREDICATE

Usage: `autodoc_rw_command_hook(Backend, DocSt, Command, NewCommand)`

- *The following properties should hold at call time:*

Backend is a supported backend. (backend_id/1)

docstate(DocSt) (docstate/1)

Intermediate tree representation for documentation (doctree/1)

Intermediate tree representation for documentation (doctree/1)

The predicate is *multifile*.

autodoc_is_operational_hook/2: PREDICATE

No further documentation available for this predicate. The predicate is *multifile*.

autodoc_finish_hook/1: PREDICATE

No further documentation available for this predicate. The predicate is *multifile*.

autodoc_gen_alternative_hook/2: PREDICATE

No further documentation available for this predicate. The predicate is *multifile*.

14.3 Documentation on imports

This module has the following direct dependencies:

- *Application modules:*

`autodoc_state`, `autodoc_doctree`, `autodoc_images`, `autodoc_aux`, `comments`.

- *System library modules:*

`lists`, `format_to_string`.

- *Internal (engine) modules:*

`term_basic`, `arithmetic`, `atomic_basic`, `basiccontrol`, `exceptions`, `term_compare`, `term_typing`, `debugger_support`, `basic_props`.

- *Packages:*

`prelude`, `initial`, `condcomp`, `assertions`, `assertions/assertions_basic`, `regtypes`, `fsyntax`.

15 Filesystem abstraction

Author(s): Jose F. Morales.

This module provides definitions to assign unique file-system paths and names for each of the intermediate and final results of documentation generation.

15.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc_filesystem)).`
- **Exports:**
 - *Predicates:*
`cleanup_vpath/0, add_vpath/1, vpath_indir/1, find_file/2, find_file/3,`
`find_doc_source/2, file_format_name/2, supported_file_format/1, format_`
`get_subtarget/3, format_get_file/3, clean_fs_db/0, get_output_dir/2, get_`
`cache_dir/2, get_cache_dir0/2, ensure_output_dir/1, ensure_cache_dir/1,`
`absfile_for_aux/3, absfile_for_subtarget/4, main_output_name/2, main_`
`output_name_novers/1, get_parent_bundle/1, get_modspec/2, modname_nodoc/2,`
`modspec_nodoc/2, get_subbase/3, absfile_to_relf file/3, clean_all/0, clean_`
`docs_no_texi/0, clean_all_temporary/0, clean_intermediate/0, pred_to_glob_`
`pattern/2.`
 - *Regular Types:*
`filename/1, filename_noext/1, subtarget/1.`

15.2 Documentation on exports

filename/1:	REGTYPE
Usage: filename(X)	
X is the name of a file.	
filename_noext/1:	REGTYPE
Usage: filename_noext(X)	
X is the base name of a file (without extension).	
cleanup_vpath/0:	PREDICATE
No further documentation available for this predicate.	
add_vpath/1:	PREDICATE
No further documentation available for this predicate.	

vpath_indir/1:	PREDICATE
No further documentation available for this predicate.	
find_file/2:	PREDICATE
No further documentation available for this predicate.	
find_file/3:	PREDICATE
No further documentation available for this predicate. <i>Meta-predicate</i> with arguments: find_file(?,pred(1),?).	
find_doc_source/2:	PREDICATE
No further documentation available for this predicate.	
subtarget/1:	REGTYPE
Usage: The kind of intermediate/final results for a single documentation processing unit (module).	
file_format_name/2:	PREDICATE
No further documentation available for this predicate.	
supported_file_format/1:	PREDICATE
No further documentation available for this predicate.	
format_get_subtarget/3:	PREDICATE
Usage: format_get_subtarget(Format,Backend,Subtarget) Backend and Subtarget are the backend and subtarget that generates files with format Format	
— <i>Call and exit should be compatible with:</i>	
Format is an atom.	(atm/1)
Backend is a supported backend.	(backend_id/1)
Subtarget is an atom.	(atm/1)
format_get_file/3:	PREDICATE
Usage: format_get_file(Format,Mod,File) File is the principal file for Mod in format Format	
— <i>Call and exit should be compatible with:</i>	
Format is an atom.	(atm/1)
Mod is an atom.	(atm/1)
File is an atom.	(atm/1)

clean_fs_db/0:	PREDICATE
Usage: <code>clean_fs_db()</code>	
Clean the cached information for the filesystem mapping of the documentaton generation.	
get_output_dir/2:	PREDICATE
Usage: <code>get_output_dir(Backend,Dir)</code>	
Dir is the directory where the documentation files are generated. Note that this is not the installation directory.	
get_cache_dir/2:	PREDICATE
Usage: <code>get_cache_dir(Backend,Dir)</code>	
Dir is the directory where temporary documentation files will be stored (for the active backend)	
get_cache_dir0/2:	PREDICATE
Usage: <code>get_cache_dir0(Backend,Dir)</code>	
Dir is the directory where temporary documentation files will be stored (for all backends)	
ensure_output_dir/1:	PREDICATE
No further documentation available for this predicate.	
ensure_cache_dir/1:	PREDICATE
No further documentation available for this predicate.	
absfile_for_aux/3:	PREDICATE
Usage: <code>absfile_for_aux(AuxName,Backend,AbsFile)</code>	
Absolute file for an auxiliary output file (e.g. CSS, images, etc.)	
absfile_for_subtarget/4:	PREDICATE
No further documentation available for this predicate.	
main_output_name/2:	PREDICATE
No further documentation available for this predicate.	
main_output_name_novers/1:	PREDICATE
No further documentation available for this predicate.	

get_parent_bundle/1:	PREDICATE
No further documentation available for this predicate.	
get_modspec/2:	PREDICATE
No further documentation available for this predicate.	
modname_nodoc/2:	PREDICATE
No further documentation available for this predicate.	
modspec_nodoc/2:	PREDICATE
No further documentation available for this predicate.	
get_subbase/3:	PREDICATE
Usage: <code>get_subbase(Base, Sub, SubBase)</code>	
SubBase is the name for the sub-file (Sub) associated with Base	
– <i>The following properties should hold upon exit:</i>	
Base is the base name of a file (without extension).	(filename_noext/1)
Sub is an atom.	(atm/1)
SubBase is the base name of a file (without extension).	(filename_noext/1)
absfile_to_relfile/3:	PREDICATE
Usage: <code>absfile_to_relfile(A, Backend, B)</code>	
Obtain the relative path, w.r.t. the output directory, of an absolute file. This is useful, e.g., for URLs.	
clean_all/0:	PREDICATE
No further documentation available for this predicate.	
clean_docs_no_texi/0:	PREDICATE
No further documentation available for this predicate.	
clean_all_temporary/0:	PREDICATE
No further documentation available for this predicate.	
clean_intermediate/0:	PREDICATE
No further documentation available for this predicate.	
pred_to_glob_pattern/2:	PREDICATE
No further documentation available for this predicate. <i>Meta-predicate</i> with arguments: <code>pred_to_glob_pattern(pred(1), ?)</code> .	

15.3 Documentation on imports

This module has the following direct dependencies:

- *Application modules:*

autodoc_settings, autodoc_structure, autodoc_state.

- *System library modules:*

datafacts_rt, aggregates, pathnames, system, terms, lists, system_extra, bundle_info, bundle_paths, source_tree.

- *Internal (engine) modules:*

term_basic, arithmetic, atomic_basic, basiccontrol, exceptions, term_compare, term_typing, debugger_support, basic_props, hiord_rt.

- *Packages:*

prelude, initial, condcomp, dcg, assertions, assertions/assertions_basic, regtypes, basicmodes, fsyntax, hiord, datafacts.

16 Indexing commands (definition and formatting)

Author(s): Jose F. Morales.

This module defines index commands and formatting.

16.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc_index)).`
- **Exports:**
 - *Predicates:*
`typeindex/5, idx_get_indices/3, is_index_cmd/1, codetype/1, normalize_index_cmd/3, fmt_idx_env/7, get_use_outlink/4, fmt_index/3.`

16.2 Documentation on exports

typeindex/5: PREDICATE

Usage: `typeindex(IdxName, IndexId, IType, Name, Comment)`

Define properties of the index `IdxName`. `IndexId` is the index ID for texinfo. `IType` is the type of index; an empty string means normal. `Name` is the title of the index in the documentation. `Comment` is a comment to include before the index.

- *The following properties should hold upon exit:*

<code>IdxName</code> is currently instantiated to an atom.	(<code>atom</code> /1)
<code>IndexId</code> is an atom.	(<code>atm</code> /1)
<code>IType</code> is a string (a list of character codes).	(<code>string</code> /1)
<code>Name</code> is a string (a list of character codes).	(<code>string</code> /1)
Intermediate tree representation for documentation	(<code>doctree</code> /1)

idx_get_indices/3: PREDICATE

No further documentation available for this predicate.

is_index_cmd/1: PREDICATE

No further documentation available for this predicate.

codetype/1: PREDICATE

No further documentation available for this predicate.

normalize_index_cmd/3: PREDICATE

No further documentation available for this predicate.

fmt_idx_env/7: PREDICATE
No further documentation available for this predicate.

get_use_outlink/4: PREDICATE
No further documentation available for this predicate.

fmt_index/3: PREDICATE
No further documentation available for this predicate.

16.3 Documentation on imports

This module has the following direct dependencies:

- *Application modules:*
autodoc_state, autodoc_filesystem, autodoc_doctree, autodoc_structure, autodoc_refsdb.
- *System library modules:*
dict, lists, aggregates.
- *Internal (engine) modules:*
term_basic, arithmetic, atomic_basic, basiccontrol, exceptions, term_compare, term_typing, debugger_support, basic_props.
- *Packages:*
prelude, initial, condcomp, dcg, assertions, assertions/assertions_basic, regtypes, fsyntax.

17 Database of documentation references

Author(s): Jose F. Morales.

This module stores and manages all the documentation references (indices, sections, bibliography, etc.). It includes the generation of the table of contents.

17.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc_refsdb)).`
- **Exports:**
 - *Predicates:*
`compute_refs_and_biblio/1, prepare_current_refs/1, clean_current_refs/1,`
`pretty_cite/3, get_nav/4, secttree_resolve/3.`
 - *Regular Types:*
`secttree/1.`

17.2 Documentation on exports

compute_refs_and_biblio/1:	PREDICATE
No further documentation available for this predicate.	
prepare_current_refs/1:	PREDICATE
Usage:	
Prepare references for the translation of the current file.	
– <i>Call and exit should be compatible with:</i>	
<code>docstate(Arg1)</code>	<code>(docstate/1)</code>
clean_current_refs/1:	PREDICATE
Usage:	
Clean the data stored by <code>prepare_current_refs/1</code> .	
– <i>Call and exit should be compatible with:</i>	
<code>docstate(Arg1)</code>	<code>(docstate/1)</code>
pretty_cite/3:	PREDICATE
Usage: <code>pretty_cite(Ref,DocSt,Text)</code>	
Obtain citation text <code>Text</code> for <code>Ref</code> using the default bibliography style	

secttree/1:	REGTYPE
Usage:	
A tree of sections	
get_nav/4:	PREDICATE
Usage:	
Obtain some navigation links and the tree for the current section from a global tree	
– <i>Call and exit should be compatible with:</i>	
A tree of sections	(secttree/1)
Arg2 is an atom.	(atm/1)
Arg3 is any term.	(term/1)
A tree of sections	(secttree/1)
secttree_resolve/3:	PREDICATE
Usage: secttree_resolve (LabelName,Tree,Link)	
Locate in the section tree Tree the section with label name LabelName and return the Link to the section.	
– <i>Call and exit should be compatible with:</i>	
LabelName is a string (a list of character codes).	(string/1)
Intermediate tree representation for documentation	(doctree/1)
A link to a document label	(doclink/1)

17.3 Documentation on imports

This module has the following direct dependencies:

- *Application modules:*
autodoc_state, autodoc_doctree, autodoc_structure, autodoc_filesystem, autodoc_messages, autodoc_bibrefs.
- *System library modules:*
aggregates, lists.
- *Internal (engine) modules:*
term_basic, arithmetic, atomic_basic, basiccontrol, exceptions, term_compare, term_typing, debugger_support, basic_props.
- *Packages:*
prelude, initial, condcomp, dcg, assertions, assertions/assertions_basic, regtypes, fsyntax.

18 Error messages (parsing)

Author(s): Manuel Hermenegildo.

These texts are the basically the errors generated during parsing (`autodoc_parse.pl`). Other error messages are interspersed in the code.

18.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc_errors)).`
- **Exports:**
 - *Predicates:*
`error_text/3.`

18.2 Documentation on exports

error_text/3:

PREDICATE

No further documentation available for this predicate.

18.3 Documentation on imports

This module has the following direct dependencies:

- *Internal (engine) modules:*
`term_basic`, `arithmetic`, `atomic_basic`, `basiccontrol`, `exceptions`, `term_compare`,
`term_typing`, `debugger_support`, `basic_props`, `hiord_rt`.
- *Packages:*
`prelude`, `initial`, `condcomp`, `assertions`, `assertions/assertions_basic`, `regtypes`,
`basicmodes`.

19 Resolution of bibliographical references

Author(s): Manuel Hermenegildo (original version), Jose F. Morales.

This module provides a predicate to resolve the bibliographical references found during the generation of documentation.

19.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc_bibrefs)).`
- **Exports:**
 - *Predicates:*
`resolve_bibliography/1, parse_commands/3.`

19.2 Documentation on exports

resolve_bibliography/1:

PREDICATE

Usage: `resolve_bibliography(DocSt)`

This predicate resolves bibliographical references. The algorithm is as follows:

- Write all the bibliographical references to a `.aux` file.
- Invoke BibTeX with a customized `.bst` file that generates a pseudo-docstring.
- Load the docstring and fix its syntax.
- Parse the docstring as a doctree.
- Extract `(Label,Ref)` pairs from `bibitem` commands.

Both the docstring and label/reference pairs are kept in the `DocSt`, and used later to map symbolic references to textual labels.

- *The following properties should hold at call time:*

`docstate(DocSt)` (docstate/1)

parse_commands/3:

PREDICATE

No further documentation available for this predicate.

19.3 Documentation on imports

This module has the following direct dependencies:

- *Application modules:*
`autodoc_state, autodoc_doctree, autodoc_refsdb, autodoc_settings, autodoc_filesystem, autodoc_aux, autodoc_messages, autodoc_parse.`
- *System library modules:*
`dict, aggregates, terms, stream_utils, lists, format, pathnames, system.`
- *Internal (engine) modules:*
`term_basic, arithmetic, atomic_basic, basiccontrol, exceptions, term_compare, term_typing, debugger_support, basic_props, stream_basic.`

– *Packages:*

`prelude`, `initial`, `condcomp`, `dcg`, `assertions`, `assertions/assertions_basic`,
`regtypes`, `fsyntax`.

20 Auxiliary definitions

Author(s): Manuel Hermenegildo, Jose F. Morales.

20.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc_aux)).`
- **Exports:**
 - *Predicates:*
`all_vars/1, read_file/2, ascii_blank_lines/2, autodoc_process_call/3, cmd_logbase/3.`

20.2 Documentation on exports

all_vars/1: PREDICATE
 No further documentation available for this predicate.

read_file/2: PREDICATE
 No further documentation available for this predicate.

ascii_blank_lines/2: PREDICATE
 No further documentation available for this predicate.

autodoc_process_call/3: PREDICATE
 No further documentation available for this predicate.

cmd_logbase/3: PREDICATE
 No further documentation available for this predicate.

20.3 Documentation on imports

This module has the following direct dependencies:

- *Application modules:*
`autodoc_messages, autodoc_settings, autodoc_filesystem.`
- *System library modules:*
`system, logged_process, pathnames.`
- *Internal (engine) modules:*
`term_basic, arithmetic, atomic_basic, basiccontrol, exceptions, term_compare, term_typing, debugger_support, basic_props, hiord_rt, stream_basic, io_basic.`
- *Packages:*
`prelude, initial, condcomp, assertions, assertions/assertions_basic, regtypes, basicmodes, fsyntax.`

21 Image handling

Author(s): Jose F. Morales.

This module defines the handling of image commands. It defines predicates to locate and convert images in the different formats required for documentation.

21.1 Usage and interface

- **Library usage:**
`:- use_module(lpdoc(autodoc_images)).`
- **Exports:**
 - *Predicates:*
`locate_and_convert_image/4, clean_image_cache/0.`

21.2 Documentation on exports

locate_and_convert_image/4: PREDICATE

Usage: `locate_and_convert_image(SrcSpecS,AcceptedExts,DocSt,TargetFileS)`

The image at `SrcSpecS` is located (as one of the known image extensions `imgext/1`) and converted to one of the `AcceptedExts`. The target file is called `TargetFileS`

– *Call and exit should be compatible with:*

<code>SrcSpecS</code> is a string (a list of character codes).	(<code>string/1</code>)
<code>AcceptedExts</code> is a list of atms.	(<code>list/2</code>)
<code>docstate(DocSt)</code>	(<code>docstate/1</code>)
<code>TargetFileS</code> is a string (a list of character codes).	(<code>string/1</code>)

clean_image_cache/0: PREDICATE

Usage:

Clean the cache for image copy/conversions.

21.3 Documentation on imports

This module has the following direct dependencies:

- *Application modules:*
`autodoc_state, autodoc_filesystem, autodoc_settings, autodoc_messages.`
- *System library modules:*
`datafacts_rt, lists, system, system_extra, process, pathnames, format.`
- *Internal (engine) modules:*
`term_basic, arithmetic, atomic_basic, basiccontrol, exceptions, term_compare, term_typing, debugger_support, basic_props, stream_basic.`
- *Packages:*
`prelude, initial, condcomp, dcg, assertions, assertions/assertions_basic, regtypes, fsyntax, datafacts.`

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