



Dogelog Player Installation

Version 1.2.0, March 16, 2024



XLOG Technologies AG

Dogelog Prolog

Dogelog Player 1.2.0

Installation Guide

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... Defined predicates with arity>0, both static and dynamic, are indexed on the functor of their first argument [1, p.17] ...

[1] Language Reference, Jekejeke Prolog 0.8.1, XLOG Technologies AG, Switzerland, February 22nd, 2010

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Table of Contents

- 1 Introduction.....4
- 2 Quick Start.....5
 - 2.1 Dogelog Distribution 5
 - 2.2 Novacore Distribution 7
 - 2.3 Tutorial Distribution..... 8
- 3 Release 1.2.....9
 - 3.1 Release 1.2.0 9
- 4 Release 1.1.....10
 - 4.1 Release 1.1.610
 - 4.2 Release 1.1.511
 - 4.3 Release 1.1.412
 - 4.4 Release 1.1.312
 - 4.5 Release 1.1.213
 - 4.6 Release 1.1.113
 - 4.7 Release 1.1.014
- 5 Known Issues15
 - 5.1 Dogelog Issues.....15
 - 5.2 Novacore Issues.....15
 - 5.3 Tutorial Issues15
- 6 Indexes16
 - 6.1 Predicates16
- Pictures23
- Tables23
- References.....23

Change history

Jan Burse, December 14, 2021, 0.1:

- Forked from language reference.

Jan Burse, January 27, 2024, 0.2:

- Release notes 0.9.x removed, release notes 1.0.x removed, section canned removed.

Jan Burse, January 27, 2024, 0.3:

- Section quick start introduced, section known issues introduced.

1 Introduction

- **Quick Start:** We give an overview of the available GIT repositories and the typical command lines in our distributions.
- **Release 1.1:** This section lists the changes concerning the Dogelog player executable, documentation and samples for releases 1.1.x
- **Known Issues:** In the following we list some known issues that might take some time until they get resolved.

2 Quick Start

We give an overview of the available GIT repositories and the typical command lines. Depending on needs Dogelog Player can be found in the following distributions:

- **Dogelog Distribution:** This distribution contains the transpiler, the core and the liblets. It has the JavaScript, Python and Java targets in its original form.
- **Novacore Distribution:** This distribution contains the novacore testcases. It has the canned JavaScript, Python and Java targets bundled.
- **Tutorial Distribution:** This distribution contains the tutorial examples. It has the canned JavaScript, Python and Java targets bundled.

2.1 Dogelog Distribution

This distribution contains the transpiler, the core and the liblets. It has the JavaScript, Python and Java targets in its original form.

GIT Access

For binary files and source code initially:

```
git clone https://www.dogelog.ch/dogelog/.git
```

For updates as desired:

```
cd dogelog  
git pull
```

JavaScript Command Line

To run Dogelog Player for JavaScript top-level as follows:

```
cd dogelog  
node player/canned/dogelog.mjs
```

Python Command Line

To run Dogelog Player for Python top-level:

```
cd dogelog  
pypy3 playerpy/canned/dogelog.py
```

Java Command Line

To run the Dogelog Player for Java top-level:

```
cd dogelog  
java -cp playerj/canned/dogelog.zip:playerj/canned Index
```

Additional Links

- [User Manuals of the Dogelog Spieler.](#)
- [Source code and Archives of the Dogelog Player.](#)

2.2 Novacore Distribution

This distribution contains the novacore testcases. It has the canned JavaScript, Python and Java targets bundled.

GIT Access

For binary files and source code initially:

```
git clone https://www.dogelog.ch/dogelog/.git
```

For updates as desired:

```
cd dogelog  
git pull
```

Ant Command Line

To execute the Novacore test cases:

```
cd novacore  
ant -f 07_envir/run.xml
```

Additional Links

- [Results of the Novacore Testcases.](#)
- [Source code and Archives of the Novacore Testcases.](#)

2.3 Tutorial Distribution

This distribution contains the tutorial examples. It has the canned JavaScript, Python and Java targets bundled.

GIT Access

For binary files and source code initially:

```
git clone https://www.xlog.ch/tutor/.git
```

For updates as desired:

```
cd tutor  
git pull
```

Web Filesystem Command Line

To view tutorial at <http://localhost:8000/>:

```
cd tutor  
webfsd
```

Additional Links

- [View Tutorial at our web site.](#)
- [Source code and Archives of the Tutorial.](#)

3 Release 1.2

This section lists the changes concerning the Dogelog player executable, documentation and samples:

- [Release 1.2.0](#)

3.1 Release 1.2.0

The following features and bug fixes were provided for the Dogelog player of version 1.2.0:

Language Reference

- Text loader now consults dynamic predicates without static optimizations.
- .

Frequent Reference

- The predicate `copy_time/2` now has a ternary version with copy time options.
- The `bind/4` predicate with a `true` option is now the predicate `bind_capture/3`.
- The `bind/4` and `bind_capture/3` predicates new versions with an element.
- The `listing/[0,1]` predicates now show multifile declaration of a predicate.
- The `listing/[0,1]` predicates now show dynamic declaration of a predicate.
- New predicates `svg_image/[5,6]` in `library(misc/vector)` introduced.
- New type/1 and `body/2` open option in `open/4` in `library(util/spin)`.
- New predicate `http_input_new/3` in `library(util/spin)`.
- New predicate `http_output_new/3` in `library(util/spin)`.
- .

Host Interface

- Dogelog Player core move into subfolder `nova` for all targets.
- Cross compiler now compiles dynamic predicates without static optimizations.
- .

4 Release 1.1

This section lists the changes concerning the Dogelog player executable, documentation and samples:

- [Release 1.1.6](#)
- [Release 1.1.5](#)
- [Release 1.1.4](#)
- [Release 1.1.3](#)
- [Release 1.1.2](#)
- [Release 1.1.1](#)
- [Release 1.1.0](#)

4.1 Release 1.1.6

The following features and bug fixes were provided for the Dogelog player of version 1.1.6:

Language Reference

- The predicates `get_code/2` and `peek_code/2` are now realized via promise.
- Streams do not anymore compress CR, LF and CRLF into a single LF.
- The Prolog tokenizer now supports CR in its input stream.
- The various colorizers now support CR in their input stream.
- New predicate `get_compress/2` that does single LF compression.
- The predicate `get_atom/3` is now bootstrapped from `get_compress/2`.
- The top-level session console input is now realized via promise.
- The predicate `open/3` in read mode is now realized via promise.
- The predicate `file_property/2` is now realized via promise.
- The predicate `close/1` for an input stream is now realized via promise.

Frequent Reference

- New library(`spin`) with HTTP client and HTTP server introduced.
- Predicate `open/4` moved to new library(`spin`).
- The predicate `open/4` in read mode is now realized via promise.
- The predicate `http_input_new/2` is now realized via promise.

Host Interface

- The instruction `'$YIELD'/1` now takes a promise.
- New `register_signal()` can be used by promises to indicate errors.
- Java target now supports promises via bouncer semaphore.
- Python target now supports promises via `asyncio.to_thread`.

4.2 Release 1.1.5

The following features and bug fixes were provided for the Dogelog player of version 1.1.5:

Language Reference

- New predicates `absolute_file_name/2` und `is_absolute_file_name/1` exposed.
- New predicates `file_directory_name/2` und `file_base_name/1` exposed.
- The file specifiers `library/1` and `foreign/1` now supports `(/)/2` segmented paths.
- The predicate `sys_time_atom/3` now supports mode `(+, -, +)`.
- New Prolog flag `host_info` for host language version introduced.
- The predicate `retractall/1` has now a more linear than quadratic behaviour.

Frequent Reference

- Predicate `tag/2` from `library(markup)` renamed to `tag_format/2`.
- New predicate `dom_writer_new/2` introduced.
- New predicate `tag/2` and `tag_format/3` introduced.
- New folders `library(util)`, `library(tester)` and `library(misc)` now used.
- New Prolog text `library(misc/vector)` now used for SVG predicates.
- New predicates `svg_rect/5` and `svg_path/2` introduced.
- New predicate `fancy_file/3` in `library(beautify)` introduced.
- File predicates moved from `library(random)` to new `library(files)`.
- New predicates `delete_file/2` and `copy_binary/2` in `library(files)`.
- New predicates `copy_text/2` and `copy_time/2` in `library(files)`.

Host Interface

- The class `Reader` has been renamed to `Source`.
- The class `Writer` has been renamed to `Sink`.
- The class `Writer` now supports a `notify()` callback for flushing.
- The class `Writer` now supports an `offset` field for indentation.

Transpiler Tooling

- New folder `grind` with `collector` and `colorizer` for JavaScript.
- New folder `grind` with `collector` and `colorizer` for Python.
- New folder `grind` with `collector` and `colorizer` for Java.
- New folder `grind` with `walker`, `colorizers` and `presenters`.

4.3 Release 1.1.4

The following features and bug fixes were provided for the Dogelog player of version 1.1.4:

Language Reference

- New type/1 property introduced in file_property/2 predicate.
- New generational garbage collection introduced.
- Full GC now called when areas reach GC_MAX_TRAIL.
- Generational GC now called when each area reaches 1/3 GC_MAX_TRAIL.

Frequent Reference

- The ir_object_float_XXX built-ins have been removed from Python.
- The ir_object_XXX built-ins have been removed from Python.
- The ir_object_float_XXX built-ins have been removed from Java.
- The ir_object_XXX built-ins have been removed from Java.
- The ir_object_float_XXX built-ins moved to library(react) of JavaScript.
- The ir_object_float built-ins moved to library(markup) of JavaScript.
- The predicate measure_time/2 is now multi-file in library(runner).
- New predicate directory_member/2 in library(random).

4.4 Release 1.1.3

The following features and bug fixes were provided for the Dogelog player of version 1.1.3:

Language Reference

- The built-in symbol/1 has been removed.
- The built-ins ir_array_new/2 and ir_array_push/2 have been removed.
- The built-in ir_array_list/2 has been removed.
- New built-ins ir_place_new/2 and ir_skeleton_new/3 introduced.
- New built-ins ir_is_site/1 and ir_pred_site/2 introduced.
- New built-in ir_site_name/2 introduced.
- The untrans phase was moved from albufeira.p to dynamic.p.
- New encode phase introduced in dynamic.p.

Programming Interface

- Flags MASK_MACH_FUNC removed.
- New neck API make_check() introduced.
- New neck APIS exec_deref() and exec_unify() introduced.
- Flags MASK_MACH_ARIT and MASK_MACH_EVAL removed.
- New neck API make_arithmetic() introduced.
- New neck API exec_eval() introduced.

4.5 Release 1.1.2

The following features and bug fixes were provided for the Dogelog player of version 1.1.2:

Language Reference

- Evaluable function now throw exception when used as predicate.
- Predicates now throw exception when used as evaluable function.

Programming Interface

- New flag MASK_MACH_ARIT introduced in make_dispatch().
- The call make_special() now takes a flags parameter.
- New flag MASK_MACH_EVAL introduced in make_special().
- The call eval_term() now exposed in dogelog.mjs.
- Java version of Dogelog Player released.

4.6 Release 1.1.1

The following features and bug fixes were provided for the Dogelog player of version 1.1.1:

Language Reference

- The predicate time/1 has been internationalized.
- The predicate statistics/0 has been internationalized.
- The Prolog flag version_data now returns date/1 extension.
- The welcome banner has been internationalized.
- The predicate prolog/0 has been removed.
- New predicate file_property/2 introduced.
- New predicate set_file_property/2 introduced.
- The predicate absolute_file_name/2 has been removed.
- New predicate source_property/1 introduced.
- New predicate make/0 introduced.

Programming Interface

- The call set_stage() has been moved from index.mjs to dogelog.mjs.
- The call set_stage() has been moved from index.py to dogelog.py.
- The call clear() has been moved from index.mjs to dogelog.mjs.
- The call clear() has been moved from index.py to dogelog.py.
- New call get_stage() introduced in dogelog.mjs.
- New call get_stage() introduced in dogelog.py.

4.7 Release 1.1.0

The following features and bug fixes were provided for the Dogelog player of version 1.1.0:

Language Reference

- The `strip_async/1` option has been removed from `bundle_add/[2,3]`.
- The `bundle_clear/1` command has been removed.
- The `bundlepy_clear/1` command has been removed.
- New `copy_file/[2,3]` commands have been introduced.
- New `canonical_add/2` command has been introduced.
- Canned Prolog text of libraries is now canonified.
- New Prolog flag `sys_locale` introduced, for the current locale.
- New predicate `strings/2` introduced, current locale convenience.
- New predicate `strings/3` introduced, extensible multifile database.

5 Known Issues

In the following we list some known issues that might take some time until they get resolved:

- **Dogelog Issues:** The issues that pertain to the transpiler, the core and the liblets.
- **Novacore Issues:** The issues that pertain to the novacore testcases.
- **Tutorial Distribution:** The issues that pertain to the tutorial examples.

5.1 Dogelog Issues

The issues that pertain to the transpiler, the core and the liblets:

- ensure_loaded/1 cannot be run from within a task.
- Event loop for the Java target not yet available.
- Parallel task execution constructs not yet provided.
- .

5.2 Novacore Issues

The issues that pertain to the novacore testcases:

- .

5.3 Tutorial Issues

The issues that pertain to the tutorial examples:

- webify/1 is not yet available from canned targets.
- .

6 Indexes

The Dogelog player module files define predicates. The following indexes are provided:

- **Predicates:** This is an alphabetical index of the predicates.

6.1 Predicates

This is an alphabetical index of the predicates from the reference manual documentation and the frequent predicate documentation of the Dogelog player.

Indicator	Location
!/0	core.p
\$ALT/1	Special.java, special.mjs, special.py
\$COMPARE/3	Eval.java, eval.mjs, eval.py
\$CUT/1	Special.java, special.mjs, special.py
\$EVAL/2	Eval.java, eval.mjs, eval.py
\$MARK/1	Special.java, special.mjs, special.py
\$SEQ/2	Special.java, special.mjs, special.py
\$YIELD/1	Special.java, special.mjs, special.py
* /3	Eval.java, eval.mjs, eval.py
** /3	Eval.java, eval.mjs, eval.py
+ /3	Eval.java, eval.mjs, eval.py
,/2	core.p
(-)/2	Eval.java, eval.mjs, eval.py
(-)/3	Eval.java, eval.mjs, eval.py
-> /2	core.p
. /2	loader.p
/ /3	Eval.java, eval.mjs, eval.py
// /3	Eval.java, eval.mjs, eval.py
\\ /3	Eval.java, eval.mjs, eval.py
;/2	core.p
< /2	Eval.java, eval.mjs, eval.py
<< /3	Eval.java, eval.mjs, eval.py
= /2	Special.java, special.mjs, special.py
== /2	Special.java, special.mjs, special.py
:= /2	Eval.java, eval.mjs, eval.py
<= /2	Eval.java, eval.mjs, eval.py
== /2	Eval.java, eval.mjs, eval.py
=\\= /2	Eval.java, eval.mjs, eval.py
> /2	Eval.java, eval.mjs, eval.py
>= /2	Eval.java, eval.mjs, eval.py
>> /3	Eval.java, eval.mjs, eval.py
@< /2	Eval.java, eval.mjs, eval.py
@=< /2	Eval.java, eval.mjs, eval.py
@> /2	Eval.java, eval.mjs, eval.py
@>= /2	Eval.java, eval.mjs, eval.py
(+)/1	core.p
\\= /2	core.p
\\ /2	Eval.java, eval.mjs, eval.py
\\ /3	Eval.java, eval.mjs, eval.py
\\== /2	Eval.java, eval.mjs, eval.py
^ /3	Eval.java, eval.mjs, eval.py
abolish/1	dynamic.p
abort/0	core.p

abs/2	Eval.java, eval.mjs, eval.py
absolute_file_name/2	engine.p
acos/2	Eval.java, eval.mjs, eval.py
acyclic_term/1	Special.java, special.mjs, special.py
aggregate/3	liblet/aggregate.p
aggregate_all/3	liblet/aggregate.p
append/3	core.p
arg/3	Special.java, special.mjs, special.py
asin/2	Eval.java, eval.mjs, eval.py
asserta/1	dynamic.p
assertz/1	dynamic.p
atan/2	Eval.java, eval.mjs, eval.py
atan2/3	Eval.java, eval.mjs, eval.py
atom/1	Special.java, special.mjs, special.py
atom_arg/3	Eval.java, eval.mjs, eval.py
atom_codes/2	Eval.java, eval.mjs, eval.py
atom_concat/3	Eval.java, eval.mjs, eval.py
atom_integer/3	Special.java, special.mjs, special.py
atom_length/2	Eval.java, eval.mjs, eval.py
atom_number/2	Special.java, special.mjs, special.py
atom_reference/2	Special.java, special.mjs, special.py
atom_split/3	Eval.java, eval.mjs, eval.py
atomic/1	Special.java, special.mjs, special.py
bagof/3	liblet/aggregate.p
beautify_file/2	liblet/tester/beautify.p
beautify_file/3	liblet/tester/beautify.p
between/3	core.p
bind/3	liblet/misc/react.p
bind/4	liblet/misc/react.p
build_file/2	liblet/tester/indexer.p
call/1	core.p
call_later/2	core.p
call_nth/2	liblet/sequence.p
callable/1	Special.java, special.mjs, special.py
catch/3	core.p
ceiling/2	Eval.java, eval.mjs, eval.py
chain/2	core.p
change_arg/3	Special.java, special.mjs, special.py
char_code/2	Eval.java, eval.mjs, eval.py
clause/2	dynamic.p
clear/0	liblet/misc/react.p
close/1	Runtime.java, runtime.mjs, runtime.py
close_output_atom_stream/2	liblet/util/auxlib.java, liblet/util/auxlib.mjs, liblet/util/auxlib.py
code_numeric/2	Special.java, special.mjs, special.py
code_type/2	Special.java, special.mjs, special.py
collect_file/3	liblet/tester/indexer.p
compare/3	core.p
compound/1	Special.java, special.mjs, special.py
copy_term/2	Special.java, special.mjs, special.py
cos/2	Eval.java, eval.mjs, eval.py
count_batch/1	liblet/tester/runner.p
create_task/1	core.p
current_error/1	Runtime.java, runtime.mjs, runtime.py
current_input/1	Runtime.java, runtime.mjs, runtime.py
current_lastcode/2	Runtime.java, runtime.mjs, runtime.py

current_op/3	engine.p
current_output/1	Runtime.java, runtime.mjs, runtime.py
current_predicate/1	dynamic.p
current_prolog_flag/2	engine.p
current_source/1	engine.p
decode_report_opt/3	liblet/tester/report.p
decode_report_opts/3	liblet/tester/report.p
delete_file/1	liblet/util/oslib.java, liblet/util/oslib.mjs, liblet/util/oslib.py
diagnose_online/1	liblet/tester/diagnose.p
directory_files/2	liblet/util/oslib.java, liblet/util/oslib.mjs, liblet/util/oslib.py
directory_member/2	liblet/util/files.p
(discontiguous)/1	core.p
disjoint/2	liblet/sets.p
distinct/1	liblet/sequence.p
div/3	Eval.java, eval.mjs, eval.py
divmod/4	liblet/util/bitlib.java, liblet/util/bitlib.mjs, liblet/util/bitlib.py
dom_cell_add/2	liblet/misc/domlib.mjs
dom_cell_clear/1	liblet/misc/emitlib.mjs
dom_cell_current/1	liblet/misc/markup.p
dom_cell_goto/2	liblet/misc/emitlib.mjs
dom_cell_listen/4	liblet/misc/emitlib.mjs
dom_cell_set/1	liblet/misc/markup.p
dom_prevent_default/1	liblet/misc/emitlib.mjs
dom_stop_propagation/1	liblet/misc/emitlib.mjs
dom_writer_new/1	liblet/misc/markup.p
dom_writer_new/2	liblet/misc/domlib.java, liblet/misc/domlib.mjs, liblet/misc/domlib.py
dump_batch/2	liblet/tester/runner.p
dump_index/1	liblet/tester/indexer.p
(dynamic)/1	dynamic.p
e/1	Eval.java, eval.mjs, eval.py
ensure_directory/1	liblet/util/files.p
ensure_loaded/1	loader.p
epsilon/1	Eval.java, eval.mjs, eval.py
equal/2	liblet/sets.p
exp/2	Eval.java, eval.mjs, eval.py
expand_term/2	loader.p
fail/0	Special.java, special.mjs, special.py
file_base_name/2	engine.p
file_directory_name/2	engine.p
file_exists/1	liblet/util/oslib.java, liblet/util/oslib.mjs, liblet/util/oslib.py
file_property/2	code.p
findall/3	core.p
float/1	Special.java, special.mjs, special.py
float/2	Eval.java, eval.mjs, eval.py
floor/2	Eval.java, eval.mjs, eval.py
flush_output/0	code.p
flush_output/1	Runtime.java, runtime.mjs, runtime.py
forall/2	liblet/compat.p
format/2	liblet/util/format.p
format/3	liblet/util/format.p
format_atom/3	liblet/util/format.p
functor/3	Special.java, special.mjs, special.py
get_atom/2	code.p
get_atom/3	Runtime.java, runtime.mjs, runtime.py
get_code/1	code.p

get_code/2	Runtime.java, runtime.mjs, runtime.py
get_string/2	core.p
get_string/3	core.p
goto/1	liblet/misc/react.p
ground/1	Special.java, special.mjs, special.py
ignore/1	core.p
include/1	loader.p
index_pred/3	liblet/tester/indexer.p
(initialization)/1	session.p
integer/1	Special.java, special.mjs, special.py
intersection/3	liblet/sets.p
is/2	core.p
is_absolute_file_name/1	engine.p
json_atom/2	liblet/misc/json.p
json_object_current/3	liblet/misc/json.p
json_object_remove/3	liblet/misc/json.p
json_object_set/4	liblet/misc/json.p
keysort/2	liblet/compat.p
last/2	liblet/lists.p
last/3	liblet/lists.p
last_sub_atom/5	engine.p
legend_batch/1	liblet/tester/runner.p
legend_column/2	liblet/tester/report.p, liblet/tester/runner.p
legend_compute/2	liblet/tester/runner.p
legend_table/1	liblet/tester/report.p, liblet/tester/runner.p
length/2	core.p
limit/2	liblet/sequence.p
list_to_set/2	core.p
listing/0	session.p
listing/1	session.p
log/2	Eval.java, eval.mjs, eval.py
lsb/2	liblet/util/bitlib.java, liblet/util/bitlib.mjs, liblet/util/bitlib.py
make/0	loader.p
make_directory/1	liblet/util/oslib.java, liblet/util/oslib.mjs, liblet/util/oslib.py
markup_display/2	liblet/misc/markup.p
max/3	Eval.java, eval.mjs, eval.py
measure_batch/1	liblet/tester/runner.p
measure_time/2	liblet/tester/runner.p
member/2	core.p
memberchk/2	liblet/lists.p
min/3	Eval.java, eval.mjs, eval.py
mod/3	Eval.java, eval.mjs, eval.py
msb/2	liblet/util/bitlib.java, liblet/util/bitlib.mjs, liblet/util/bitlib.py
(multifile)/1	core.p
nl/0	code.p
nl/1	code.p
nonground/2	Special.java, special.mjs, special.py
nonvar/1	Special.java, special.mjs, special.py
nth0/3	liblet/lists.p
nth0/4	liblet/lists.p
nth1/3	liblet/lists.p
nth1/4	liblet/lists.p
number/1	Special.java, special.mjs, special.py
number_codes/2	core.p
numbervars/3	liblet/fastlib.java, liblet/fastlib.mjs, liblet/fastlib.py
offset/2	liblet/sequence.p

once/1	core.p
once_cleanup/2	core.p
op/3	engine.p
open/3	core.p
open/4	core.p
open_input_atom_stream/2	liblet/util/auxlib.java, liblet/util/auxlib.mjs, liblet/util/auxlib.py
open_output_atom_stream/1	liblet/util/auxlib.java, liblet/util/auxlib.mjs, liblet/util/auxlib.py
peek_code/1	code.p
peek_code/2	Runtime.java, runtime.mjs, runtime.py
percent_encode/2	liblet/util/auxlib.java, liblet/util/auxlib.mjs, liblet/util/auxlib.py
pi/1	Eval.java, eval.mjs, eval.py
predicate_property/2	dynamic.p
put_atom/1	code.p
put_atom/2	Runtime.java, runtime.mjs, runtime.py
put_code/1	code.p
put_code/2	Runtime.java, runtime.mjs, runtime.py
random/1	liblet/util/bitlib.java, liblet/util/bitlib.mjs, liblet/util/bitlib.py
read/1	code.p
read/2	code.p
read_json/1	liblet/misc/json.p
read_json/2	liblet/misc/json.p
read_term/2	code.p
read_term/3	code.p
reference/1	Special.java, special.mjs, special.py
rem/3	Eval.java, eval.mjs, eval.py
repeat/0	core.p
report_batch/3	liblet/tester/report.p
result/7	liblet/tester/diagnose.p, liblet/tester/report.p, liblet/tester/runner.p
result_pred/6	liblet/tester/diagnose.p, liblet/tester/report.p, liblet/tester/runner.p
result_suite/3	liblet/tester/diagnose.p, liblet/tester/report.p, liblet/tester/runner.p
result_summary/2	liblet/tester/diagnose.p, liblet/tester/report.p, liblet/tester/runner.p
result_tests/4	liblet/tester/diagnose.p, liblet/tester/report.p, liblet/tester/runner.p
retract/1	dynamic.p
retractall/1	dynamic.p
reverse/2	core.p
round/2	Eval.java, eval.mjs, eval.py
runner_batch/1	liblet/tester/runner.p
runner_case/5	liblet/tester/report.p, liblet/tester/runner.p
runner_file/3	liblet/tester/report.p, liblet/tester/runner.p
runner_folder/2	liblet/tester/report.p, liblet/tester/runner.p
runner_pred/5	liblet/tester/report.p, liblet/tester/runner.p
select/3	core.p
set_error/1	Runtime.java, runtime.mjs, runtime.py
set_file_property/2	Runtime.java, runtime.mjs, runtime.py
set_input/1	Runtime.java, runtime.mjs, runtime.py
set_lastcode/2	Runtime.java, runtime.mjs, runtime.py
set_output/1	Runtime.java, runtime.mjs, runtime.py
set_prolog_flag/2	engine.p

setof/3	liblet/aggregate.p
setup_once_cleanup/3	core.p
shield/1	Special.java, special.mjs, special.py
sign/2	Eval.java, eval.mjs, eval.py
sin/2	Eval.java, eval.mjs, eval.py
sleep/1	core.p
sort/2	liblet/compat.p
source_property/2	engine.p
sqrt/2	Eval.java, eval.mjs, eval.py
statistics/0	engine.p
statistics/2	engine.p
stream_property/2	core.p
strings/3	code.p, core.p, engine.p, liblet/util/format.p, loader.p, scanner.p, session.p
sub_atom/5	engine.p
subset/2	liblet/sets.p
subsumes/2	liblet/fastlib.java, liblet/fastlib.mjs, liblet/fastlib.py
subsumes_term/2	liblet/compat.p
subtract/3	liblet/sets.p
svg_apply_transform/5	liblet/misc/portlib.mjs
svg_begin/0	liblet/misc/vector.p
svg_begin/1	liblet/misc/vector.p
svg_circle/4	liblet/misc/vector.p
svg_end/0	liblet/misc/vector.p
svg_line/5	liblet/misc/vector.p
svg_path/2	liblet/misc/vector.p
svg_rect/5	liblet/misc/vector.p
svg_text/4	liblet/misc/vector.p
svg_view_inverse/2	liblet/misc/portlib.mjs
syndiff/3	liblet/sets.p
tab/1	liblet/util/format.p
tab/2	liblet/util/format.p
tag/1	liblet/misc/markup.p
tag/2	liblet/misc/markup.p
tag_format/2	liblet/misc/markup.p
tag_format/3	liblet/misc/markup.p
tan/2	Eval.java, eval.mjs, eval.py
term_atom/2	liblet/util/charsio.p
term_atom/3	liblet/util/charsio.p
term_conversion/2	engine.p
term_singletons/2	Special.java, special.mjs, special.py
term_variables/2	core.p
term_variables/3	Special.java, special.mjs, special.py
testbit/2	liblet/util/bitlib.java, liblet/util/bitlib.mjs, liblet/util/bitlib.py
throw/1	core.p
time/1	engine.p
time_out/2	core.p
true/0	core.p
truncate/2	Eval.java, eval.mjs, eval.py
try_call_finally/3	engine.p
unify_with_occurs_check/2	liblet/fastlib.java, liblet/fastlib.mjs, liblet/fastlib.py
union/3	liblet/sets.p
unshield/1	Special.java, special.mjs, special.py
var/1	Special.java, special.mjs, special.py
with_text_from/2	liblet/util/charsio.p
with_text_to/2	liblet/util/charsio.p

write/1	code.p
write/2	code.p
write_canonical/1	code.p
write_canonical/2	code.p
write_json/1	liblet/misc/json.p
write_json/2	liblet/misc/json.p
write_term/2	code.p
write_term/3	code.p
writeq/1	code.p
writeq/2	code.p
xml_escape/2	liblet/util/auxlib.java, liblet/util/auxlib.mjs, liblet/util/auxlib.py
xor/3	Eval.java, eval.mjs, eval.py

Pictures

Es konnten keine Einträge für ein Abbildungsverzeichnis gefunden werden.

Tables

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