

# BinProlog Professional Edition Predicate Cross-Reference Guide

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## 0.1 Undefined predicates, possibly intended to be imported

- ??

`$hx/3`

## 0.2 Unused predicates, possibly intended to be exported

- 0.3.1

`# /3`

- 0.3.3

`(#*)/3`

- 0.3.4

`(#+)/3`

- 0.3.5

`(#-)/3`

- 0.3.6

`(#:)/3`

- 0.3.7

`(#<)/3`

- 0.3.8

`(#=)/3`

- 0.3.9

`(#>)/3`

- 0.3.10

`(#?)/3`

- 0.3.11

`$process_catch/3`

- 0.3.12

`* /3`

- 0.3.13

$** /3$

- 0.3.14

$(+)/2$

- 0.3.16

$(+)/3$

- 0.3.17

$(,)/2$

- 0.3.18

$(-)/2$

- 0.3.20

$(->)/2$

- 0.3.21

$(.)/3$

- 0.3.22

$/ /3$

- 0.3.23

$// /3$

- 0.3.24

$/\ /3$

- 0.3.25

$(::-)/2$

- 0.3.26

$(;)/2$

- 0.3.28

$<< /3$

- 0.3.37

$>> /3$

- 0.3.38

$@ /3$

- 0.3.39

$(@<)/2$

- 0.3.40

$(@=<)/2$

- 0.3.41

$(@>)/2$

- 0.3.42

$(@>=)/2$

- 0.3.44

$\backslash /2$

- 0.3.46

$(\backslash+)/1$

- 0.3.47

$\backslash/ /3$

- 0.3.48

$(\backslash=)/2$

- 0.3.50

$\wedge /2$

- 0.3.51

`abolish/1`

- 0.3.53

`abs/2`

- 0.3.54  
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- 0.3.55  
acos/2
- 0.3.57  
all/2
- 0.3.58  
all/3
- 0.3.59  
all\_answers/3
- 0.3.60  
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- 0.3.61  
all\_for/2
- 0.3.62  
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- 0.3.63  
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- 0.3.66  
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atan2/3
- 0.3.93  
atom\_chars/2
- 0.3.96  
bagof/3
- 0.3.97  
bb/0
- 0.3.100  
bb\_gc0/0
- 0.3.101  
bb\_get/3

- 0.3.107  
bbgc/0
- 0.3.117  
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- 0.3.119  
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- 0.3.120  
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call/5
- 0.3.125  
call/6
- 0.3.126  
call/7
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- 0.3.133  
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- 0.3.159  
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- 0.3.162  
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- 0.3.163  
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- 0.3.165  
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- 0.3.169  
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- 0.3.170  
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cout/1
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- 0.3.185  
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- 0.3.186  
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- 0.3.188  
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- 0.3.193  
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- 0.3.201  
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- 0.3.213  
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- 0.3.214  
dcg\_connect/1
- 0.3.215  
dcg\_def/1
- 0.3.216  
dcg\_tell/1
- 0.3.217  
dcg\_telling/1
- 0.3.218  
dcg\_val/1
- 0.3.219  
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- 0.3.227  
    default\_this\_host/1
- 0.3.230  
    delete\_all\_terms/1
- 0.3.231  
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- 0.3.233  
    det\_call/1
- 0.3.234  
    detect\_ip\_addr/1
- 0.3.235  
    detect\_user/1
- 0.3.236  
    dir/0
- 0.3.237  
    dir2dirs/2
- 0.3.238  
    dir2files/2
- 0.3.240  
    (discontiguous)/1
- 0.3.241  
    display/1
- 0.3.243  
    dyn2stat/1

- 0.3.245  
     (dynamic)/1
- 0.3.246  
     dynbbgc/0
- 0.3.248  
     ed/0
- 0.3.249  
     edit/0
- 0.3.250  
     edit/2
- 0.3.251  
     element\_of/2
- 0.3.252  
     emacs/0
- 0.3.255  
     end\_module/1
- 0.3.256  
     end\_of\_file/0
- 0.3.257  
     eq/2
- 0.3.260  
     exit/0
- 0.3.261  
     exp/2
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- 0.3.266  
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- 0.3.313  
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- 0.3.317  
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- 0.3.322  
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- 0.3.323  
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- 0.3.324  
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    hash\_clear/2
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    hash\_compile/0
- 0.3.343  
    hash\_find\_unique/3
- 0.3.344  
    hash\_gc/0
- 0.3.347  
    hash\_load/1
- 0.3.348  
    hash\_push/2
- 0.3.349  
    hash\_put/2
- 0.3.350  
    hash\_rm/2
- 0.3.351  
    hash\_rm\_one/2
- 0.3.352  
    hash\_save/1



- 0.3.354  
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- 0.3.355  
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- 0.3.356  
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- 0.3.371  
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- 0.3.373  
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- 0.3.381  
is\_maj/1
- 0.3.382  
is\_min/1
- 0.3.384  
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- 0.3.386  
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- 0.3.399  
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- 0.3.432  
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- 0.3.434  
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- 0.3.457  
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- 0.3.494  
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- 0.3.499  
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- 0.3.500  
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- 0.3.502  
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- 0.3.503  
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- 0.3.504  
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- 0.3.507  
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- 0.3.508  
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- 0.3.509  
out/1
- 0.3.510  
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- 0.3.514  
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- 0.3.515  
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- 0.3.516  
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- 0.3.519  
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- 0.3.524  
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- 0.3.526  
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- 0.3.528  
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- 0.3.529  
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- 0.3.531  
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- 0.3.532  
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- 0.3.540  
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- 0.3.543  
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- 0.3.546  
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- 0.3.547  
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- 0.3.548  
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- 0.3.553  
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- 0.3.555  
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- 0.3.556  
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- 0.3.557  
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- 0.3.558  
rd/1
- 0.3.561  
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- 0.3.562  
read\_term/2

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- 0.3.565  
read\_terms\_from\_chars/2
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read\_words/1
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remote\_run/1
- 0.3.573  
remove\_current\_term/1
- 0.3.575  
restart/0
- 0.3.576  
retract/1
- 0.3.577  
retract1/1
- 0.3.579  
return/1
- 0.3.581  
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- 0.3.582  
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- 0.3.585  
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- 0.3.588  
rpc\_test/0
- 0.3.591  
run\_server/0
- 0.3.595  
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- 0.3.596  
sconsult/1
- 0.3.599  
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- 0.3.602  
seeing\_at/1
- 0.3.604  
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- 0.3.606  
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- 0.3.613  
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- 0.3.616  
set\_load\_method/1
- 0.3.617  
set\_login/1

- 0.3.618  
     `set_output/1`
- 0.3.619  
     `set_password/1`
- 0.3.620  
     `set_port/1`
- 0.3.621  
     `set_prolog_flag/2`
- 0.3.622  
     `set_this_host/1`
- 0.3.623  
     `set_this_port/1`
- 0.3.624  
     `set_timeout/1`
- 0.3.625  
     `setarg/3`
- 0.3.626  
     `setof/3`
- 0.3.627  
     `shell/1`
- 0.3.629  
     `show_defaults/0`
- 0.3.630  
     `show_engine/0`
- 0.3.631  
     `show_info/2`

- 0.3.632  
sign/2
- 0.3.633  
sin/2
- 0.3.637  
sock2file/2
- 0.3.638  
sock\_read/2
- 0.3.640  
sock\_readln/2
- 0.3.642  
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- 0.3.644  
sock\_writeln/2
- 0.3.646  
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- 0.3.648  
spawn/1
- 0.3.651  
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- 0.3.652  
sqrt/2
- 0.3.658  
stat/0
- 0.3.659  
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- 0.3.661  
static\_prolog\_flag/2
- 0.3.664  
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- 0.3.665  
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- 0.3.667  
stop\_service/0
- 0.3.669  
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- 0.3.670  
swrite/2
- 0.3.671  
swrite/3
- 0.3.679  
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- 0.3.681  
tan/2
- 0.3.683  
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- 0.3.684  
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- 0.3.686  
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- 0.3.690  
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- 0.3.693  
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- 0.3.694  
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- 0.3.697  
this\_db/1
- 0.3.699  
thread\_cancel/1
- 0.3.700  
thread\_exit/0
- 0.3.702  
thread\_join/1
- 0.3.703  
thread\_notify/1
- 0.3.704  
thread\_notify\_all/1
- 0.3.708  
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- 0.3.709  
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- 0.3.710  
timed\_call/4
- 0.3.711  
to\_engine/2
- 0.3.714  
to\_string/2

- 0.3.715  
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- 0.3.721  
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- 0.3.724  
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- 0.3.726  
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- 0.3.727  
trace/1
- 0.3.728  
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- 0.3.730  
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- 0.3.732  
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- 0.3.733  
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- 0.3.736  
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- 0.3.749  
update\_current\_term/2
- 0.3.752  
variant\_of/2



- 0.3.753  
vars\_of/2
- 0.3.754  
vget/2
- 0.3.758  
vi/0
- 0.3.763  
wait\_for/2
- 0.3.768  
write\_term\_to\_chars/2
- 0.3.770  
write\_words/1
- 0.3.771  
writeq/1
- 0.3.778  
x\_gc/0
- 0.3.782  
x\_profile/0
- 0.3.785  
x\_trace/1
- 0.3.786  
x\_trace/2
- 0.3.788  
xload/1
- 0.3.789  
xsave/1
- 0.3.790  
~ /1

### 0.3 Cross reference and info on predicates

#### 0.3.1 Predicate:

# /3

INFO: bitwise XOR

EXAMPLE(S):

```
?-#(1,2,_A).  
_A = 3;
```

no

#### 0.3.2 Predicate:

(##)/1

INFO: executes arg 1 at compile time - make sure the executed code terminates

#### Calls:

- 0.3.71

arg/3

- 0.3.258

errmes/2

- 0.3.376

is\_compiled/1

#### Is called from:

- 0.3.340

hash\_clear/1

- 0.3.349

hash\_put/2

- 0.3.350

hash\_rm/2

- 0.3.351

hash\_rm\_one/2

- 0.3.498

numbervars/3

- 0.3.773

x\_asserta/1

- 0.3.774

x\_assertz/1

- 0.3.784

x\_retractall/1

### 0.3.3 Predicate:

(#\*)/3

INFO: (X): adds intuitionistic assumption \*(X) to be used indefinitely by #- operation

### 0.3.4 Predicate:

(#+)/3

INFO: (X): adds linear assumption +(X) to be consumed at most once, by a #- operation

### 0.3.5 Predicate:

(#-)/3

INFO: (X): consumes +(X) linear assumption or matches \*(X) intuitionistic assumption

### 0.3.6 Predicate:

(#:)/3

INFO: (X): matches X against current dcg token

### 0.3.7 Predicate:

(#<)/3

INFO: (Xs): sets the dcg token list to be Xs

### 0.3.8 Predicate:

`(#=)/3`

INFO: `(X)`: unifies `X` with any matching existing or future `+(X)` linear assumptions

### 0.3.9 Predicate:

`(#>)/3`

INFO: `(Xs)`: unifies current dcg token list with `Xs`

### 0.3.10 Predicate:

`(#?)/3`

INFO: `(X)`: matches `+(X)` or `*(X)` assumptions without any binding

### 0.3.11 Predicate:

`$process_catch/3`

INFO: processes data sent by catch for throw

### Calls:

- 0.3.168

`copy_term/2`

- 0.3.748

`untrail_to/1`

### 0.3.12 Predicate:

`* /3`

INFO: multiply

EXAMPLE(S):

`?-*(10,3,_A).`

`_A = 30;`

`no`

### 0.3.13 Predicate:

**\*\*** /3

INFO: returns arg 1 at power arg 2, a float

EXAMPLE(S):

```
?-**(2,3,_A).  
_A = 8;
```

no

### 0.3.14 Predicate:

**(+)**/2

INFO: returns 0 + arg 1

Calls:

- 0.3.15

**(+)**/3

### 0.3.15 Predicate:

**(+)**/3

INFO: add

EXAMPLE(S):

```
?-+(10,3,_A).  
_A = 13;
```

no

Is called from:

- 0.3.14

**(+)**/2

### 0.3.16 Predicate:

**(++)**/3

INFO: concatenates N lists, usable in is/2

### 0.3.17 Predicate:

(,)/2

INFO: A,B succeeds if A succeeds and B, called after A, succeeds

### 0.3.18 Predicate:

(-)/2

INFO: returns 0 - arg 1

### Calls:

- 0.3.19

(-)/3

### 0.3.19 Predicate:

(-)/3

INFO: subtract

EXAMPLE(S):

```
?--(10,3,_A).  
_A = 7;
```

no

### Is called from:

- 0.3.18

(-)/2

### 0.3.20 Predicate:

(->)/2

INFO: Cond->Then executes Cond once; if it succeeds it also executes Then

### 0.3.21 Predicate:

(.)/3

INFO: (Head,Tail,List) builds List=[Head|Tail]

### 0.3.22 Predicate:

/ /3

INFO: division

EXAMPLE(S):

?-/(10,3,\_A).  
\_A = 3.33333333;

no

### 0.3.23 Predicate:

// /3

INFO: integer division

EXAMPLE(S):

?-//(10,3,\_A).  
\_A = 3;

no

### 0.3.24 Predicate:

/\ /3

INFO: bitwise AND

EXAMPLE(S):

?-/(1,2,\_A).  
\_A = 0;

no

### 0.3.25 Predicate:

(::-)/2

INFO: variant of :- for hand transformed binary clauses - use with care

### 0.3.26 Predicate:

(;)/2

INFO: A;B succeeds if A succeeds or B, called after A, succeeds

### 0.3.27 Predicate:

(<)/2

INFO: numeric comparison

#### Calls:

- 0.3.392  
less/2

#### Is called from:

- 0.3.247  
dynco/1
- 0.3.308  
get/1
- 0.3.597  
sdebug/1
- 0.3.710  
timed\_call/4

### 0.3.28 Predicate:

<< /3

INFO: left shifts arg 1 by arg 2 bits

EXAMPLE(S):

```
?-<<(1,5,_A).  
_A = 32;
```

no

### 0.3.29 Predicate:

(=)/2

INFO: (X,Y) true if (possibly cyclic) terms X and Y unify - cyclic terms can result from =/2, as occur che

EXAMPLE(S):

```
?-f(_A,s(a)) = f(_B,_B).  
_A = s(a);  
_B = s(a);
```

no



**Is called from:**

- 0.3.53  
abs/2
- 0.3.70  
apropos/2
- 0.3.79  
ask/5
- 0.3.94  
atom\_codes/2
- 0.3.96  
bagof/3
- 0.3.129  
call\_jinni/1
- 0.3.131  
call\_jinni/3
- 0.3.140  
char\_of/2
- 0.3.145  
clean\_up\_dead\_engines/0
- 0.3.147  
clean\_up\_engines/1
- 0.3.183  
current\_module/1
- 0.3.207  
db\_retract1/2
- 0.3.233

- det\_call/1
- 0.3.239
- dir2list/3
- 0.3.242
- drop\_at\_least/2
- 0.3.247
- dynco/1
- 0.3.275
- file\_size/2
- 0.3.298
- from\_engine/1
- 0.3.307
- gensym\_no/2
- 0.3.308
- get/1
- 0.3.309
- get/2
- 0.3.313
- get\_char/2
- 0.3.318
- get\_engine\_id/2
- 0.3.320
- get\_engine\_thread/2
- 0.3.337
- has\_terms/1
- 0.3.354

- hash\_trace/2
- 0.3.362
- if\_any/3
- 0.3.366
- info/1
- 0.3.371
- interactive/1
- 0.3.372
- (is)/2
- 0.3.385
- is\_prolog/1
- 0.3.394
- line\_of/2
- 0.3.395
- list\_engines/0
- 0.3.421
- make\_compileable/2
- 0.3.435
- maps\_iterate/1
- 0.3.440
- max/3
- 0.3.445
- memberchk/2
- 0.3.448
- min/3
- 0.3.462

- `mmaps_iterate/1`
- 0.3.483
- `new_thread_guard/1`
- 0.3.493
- `nth_answer/2`
- 0.3.498
- `numbervars/3`
- 0.3.517
- `phrase/3`
- 0.3.520
- `popen/3`
- 0.3.589
- `rpc_test/1`
- 0.3.604
- `sentence_of/2`
- 0.3.631
- `show_info/2`
- 0.3.632
- `sign/2`
- 0.3.676
- `synchronize_on/3`
- 0.3.680
- `take_at_most/2`
- 0.3.691
- `term_of/2`
- 0.3.696

the/3

- 0.3.710

timed\_call/4

- 0.3.712

to\_lower\_char/2

- 0.3.715

to\_tokens/2

- 0.3.716

to\_upper\_char/2

- 0.3.718

to\_word\_codes/2

- 0.3.728

trim\_term/4

- 0.3.786

x\_trace/2

- 0.3.787

x\_traced\_call/1

### 0.3.30 Predicate:

(=..)/2

INFO: called univ -this is bidirectional- it converts between a term and its view as a alist of components

EXAMPLE(S):

?-f(a,b) =.. \_A.

\_A = [f,a,b];

no

?-\_A =.. [f,a,b].

\_A = f(a,b);

no

**Calls:**

- 0.3.751

var/1

**Is called from:**

- 0.3.96

bagof/3

- 0.3.212

dcg\_call/4

- 0.3.213

dcg\_call/5

- 0.3.728

trim\_term/4

**0.3.31 Predicate:**

(=:=)/2

INFO: numeric comparison

**Calls:**

- 0.3.74

arith\_eq/2

**Is called from:**

- 0.3.140

char\_of/2

- 0.3.313

get\_char/2

- 0.3.548

qfindall/4

- 0.3.741

unix\_cat/1

### 0.3.32 Predicate:

`(=<)/2`

INFO: numeric comparison

#### Calls:

- 0.3.393  
`less_eq/2`

#### Is called from:

- 0.3.297  
`free_thread_guard/1`
- 0.3.448  
`min/3`
- 0.3.554  
`quietmes/2`
- 0.3.712  
`to_lower_char/2`
- 0.3.716  
`to_upper_char/2`

### 0.3.33 Predicate:

`(==)/2`

INFO: true if args are identical terms

#### Is called from:

- 0.3.56  
`addq/3`
- 0.3.141  
`check_password/1`
- 0.3.538  
`pushq/3`
- 0.3.691  
`term_of/2`

### 0.3.34 Predicate:

(=\=)/2

INFO: numeric comparison

#### Calls:

- 0.3.73  
arith\_dif/2

#### Is called from:

- 0.3.147  
clean\_up\_engines/1

### 0.3.35 Predicate:

(>)/2

INFO: numeric comparison

#### Calls:

- 0.3.330  
greater/2

#### Is called from:

- 0.3.228  
default\_this\_port/1
- 0.3.308  
get/1
- 0.3.338  
has\_threads/0
- 0.3.440  
max/3
- 0.3.632  
sign/2
- 0.3.710  
timed\_call/4



### 0.3.36 Predicate:

`(>=)/2`

INFO: numeric comparison

#### Calls:

- 0.3.331  
greater\_eq/2

#### Is called from:

- 0.3.53  
abs/2
- 0.3.281  
float/1
- 0.3.297  
free\_thread\_guard/1
- 0.3.712  
to\_lower\_char/2
- 0.3.716  
to\_upper\_char/2

### 0.3.37 Predicate:

`>> /3`

INFO: right shifts arg 1 by arg 2 bits

EXAMPLE(S):

```
?->>(16,2,_A).  
_A = 4;
```

no

### 0.3.38 Predicate:

`@ /3`

INFO: alternative form for C/3 DCG connect relation

**Calls:**

- 0.3.43

C/3

**0.3.39 Predicate:**

(@<)/2

INFO: instance of compare/3 with arg 1: <

**0.3.40 Predicate:**

(@=<)/2

INFO: instance of compare/3 with arg 1: = or <

**0.3.41 Predicate:**

(@>)/2

INFO: instance of compare/3 with arg 1: >

**0.3.42 Predicate:**

(@>=)/2

INFO: instance of compare/3 with arg 1: > or =

**0.3.43 Predicate:**

C/3

INFO: DCG connect predicate

**Is called from:**

- 0.3.38

@ /3

- 0.3.438

match\_before/5

- 0.3.439

match\_word/3

#### 0.3.44 Predicate:

`\ /2`

INFO: complement

#### Calls:

- 0.3.45

`\ /3`

#### 0.3.45 Predicate:

`\ /3`

INFO: bitwise or of first arg with bitwise complement of second

EXAMPLE(S):

```
?-\(0,2,_A).  
_A = -3;
```

no

#### Is called from:

- 0.3.44

`\ /2`

#### 0.3.46 Predicate:

`(\+)/1`

INFO: succeeds if its argument is executed and fails

#### Calls:

- 0.3.263

`fail/0`

#### 0.3.47 Predicate:

`\/ /3`

INFO: bitwise OR

EXAMPLE(S):

```
?-\/(1,2,_A).  
_A = 3;
```

no

### 0.3.48 Predicate:

(\=)/2

INFO: true if args fail to unify

Calls:

- 0.3.263

fail/0

### 0.3.49 Predicate:

(\==)/2

INFO: true if arg 1 is not identical to arg 2

Is called from:

- 0.3.56

addq/3

- 0.3.70

apropos/2

- 0.3.96

bagof/3

- 0.3.172

cpopq/3

- 0.3.336

has\_info/1

- 0.3.538

pushq/3

### 0.3.50 Predicate:

`^ /2`

INFO: calls arg 2 and binds arg 1

EXAMPLE(S):

`?-_A^eq(_A,1).`

`_A = 1;`

no

### 0.3.51 Predicate:

`abolish/1`

INFO: `abolish(F/N)` deletes predicate F/N

Calls:

- 0.3.177

`current_db/1`

- 0.3.190

`db_abolish/2`

- 0.3.772

`x_abolish/1`

### 0.3.52 Predicate:

`abort/0`

INFO: returns to toplevel

Is called from:

- 0.3.401

`load/1`

- 0.3.441

`mcompile/1`

- 0.3.595

`scompile/1`

### 0.3.53 Predicate:

abs/2

INFO: int function

#### Calls:

- 0.3.29

(=)/2

- 0.3.36

(>=)/2

- 0.3.372

(is)/2

### 0.3.54 Predicate:

abstime/1

INFO: gets time in secs since arbitrary origin

EXAMPLE(S):

```
?-abstime(_A).  
_A = 372179908;
```

no

#### Calls:

- 0.3.372

(is)/2

- 0.3.663

statistics/2

### 0.3.55 Predicate:

acos/2

INFO: float function

### 0.3.56 Predicate:

addq/3

INFO: adds to end of persistent queue

EXAMPLE(S):

?-addq(key1,key2,33).

yes

### Calls:

- 0.3.33  
    (==)/2
- 0.3.49  
    (\==)/2
- 0.3.99  
    bb\_gc/0
- 0.3.148  
    clear\_bp\_error/0
- 0.3.265  
    fatal\_error/2
- 0.3.312  
    get\_bp\_error/4

### Is called from:

- 0.3.194  
    db\_assertz/2
- 0.3.430  
    map\_put/3
- 0.3.454  
    mmap\_push/3
- 0.3.455  
    mmap\_put/3

### 0.3.57 Predicate:

all/2

INFO: gets the list of terms matching arg 1 from Linda blackboard

Calls:

- 0.3.404

local\_all/2

### 0.3.58 Predicate:

all/3

INFO: gets a selection arg 1 of terms matching arg 2 from Linda blackboard

Calls:

- 0.3.405

local\_all/3

### 0.3.59 Predicate:

all\_answers/3

INFO: (X,G,Xs): like findall/3, but such that if V is not common to X and G then V cannot be bound by execution

EXAMPLE(S):

```
?-all_answers(_A,member(s(_A),[_B,_C,_C,_D]),_E).
```

```
_A = _x149315;
```

```
_B = s(_x150414);
```

```
_C = s(_x150441);
```

```
_D = s(_x150495);
```

```
_E = [_x150414,_x150441,_x150441,_x150495];
```

no

### 0.3.60 Predicate:

all\_but\_at\_least/4

INFO: (N,X,G,Xs) findall variant, computing all but the first N answers X of G

Calls:

- 0.3.242

drop\_at\_least/2



### 0.3.61 Predicate:

`all_for/2`

INFO: `all_for(X,Xs)` collects all constrained terms `X` on the blackboard to list `Xs`

### 0.3.62 Predicate:

`and/2`

INFO: conjunction, like comma

### 0.3.63 Predicate:

`answer_of/2`

INFO: `(X,G)`: `X` is an answer for `G`, after finding all, sorting and removing duplicates

### Calls:

- 0.3.442

`member/2`

- 0.3.647

`sort/2`

### 0.3.64 Predicate:

`answer_one_query/2`

INFO: handles a Jinni service `S` with password `P`

### Is called from:

- 0.3.606

`service_loop/2`

### 0.3.65 Predicate:

`append/3`

INFO: concatenates/decomposes lists

EXAMPLE(S):

```
?-append([1,2],[3,4],_A).  
_A = [1,2,3,4];
```

no

```
?-append(_A,_B,[1,2]).
```

```
_A = [];
```

```
_B = [1,2];
```

```
_A = [1];
```

```
_B = [2];
```

```
_A = [1,2];
```

```
_B = [];
```

no

**Calls:**

- 0.3.65

append/3

**Is called from:**

- 0.3.65

append/3

- 0.3.566

read\_terms\_from\_chars/3

- 0.3.629

show\_defaults/0

**0.3.66 Predicate:**

appendN/2

INFO: concatenates N lists

EXAMPLE(S):

```
?-appendN([[a,b],[],[c]],_A).
```

```
_A = [a,b,c];
```

no

**0.3.67 Predicate:**

append\_conj/3

INFO: concatenates 2 conjunctions

### 0.3.68 Predicate:

append\_disj/3

INFO: concatenates 2 disjunctions

### 0.3.69 Predicate:

apropos/1

INFO: prints names of predicates defined in the system

EXAMPLE(S):

```
?-apropos(garbage).  
use info/1 to get a description of a predicate  
garbage_collect/0-[built_in,performs heap gc now]
```

yes

### Calls:

- 0.3.70

apropos/2

- 0.3.263

fail/0

- 0.3.442

member/2

- 0.3.484

nl/0

- 0.3.647

sort/2

- 0.3.766

write/1

### Is called from:

- 0.3.356

help/1

### 0.3.70 Predicate:

apropos/2

INFO: returns names of predicates defined in the system

EXAMPLE(S):

?-apropos(retract,\_A).

\_A = retract/1-[built\_in,backtracks over deleting matching clauses];

\_A = retract1/1-[built\_in,deletes first matching clause in the current database];

\_A = retractall/1-[built\_in,deletes all matching clauses];

\_A = x\_retract/1-[built\_in,db hook, backtracks over deleting matching clauses];

\_A = x\_retractall/1-[built\_in,db hook, deletes all matching clauses];

\_A = db\_retract/2-[built\_in,does retract/1 arg 2 from database given as arg 1];

\_A = db\_retract/3-[built\_in,db\_retract(Db,H,B) retracts clause with head H and body B from database Db];

\_A = db\_retract1/2-[built\_in,deletes from database given as arg 1 a matching clause];

\_A = db\_retractall/2-[built\_in,removes from database given as arg 1, all matching clauses];

\_A = db\_retractall/3-[built\_in,removes from database given as arg 1, all matching clauses seen as head + b

\_A = prolog:x\_retract\_each/1-[compiled];

\_A = prolog:db\_retractall0/3-[compiled];

\_A = prolog:x\_retract/2-[compiled];

\_A = prolog:x\_retract\_args/5-[compiled];

no

Calls:

- 0.3.29

(=)/2

- 0.3.49

(\==)/2

- 0.3.116

bp\_info/2

- 0.3.300

functor/3

- 0.3.471

name/2

- 0.3.473

near\_match/2

- 0.3.525

predicate\_property/2

**Is called from:**

- 0.3.69

apropos/1

**0.3.71 Predicate:**

arg/3

INFO: arg(I,T,X) extracts arg I of term T to be unified with X

EXAMPLE(S):

?-arg(2,f(a,b),\_A).

\_A = b;

no

**Is called from:**

- 0.3.2

(##)/1

- 0.3.72

argn/3

- 0.3.209

db\_retractall/3

- 0.3.281

float/1

- 0.3.347

hash\_load/1

- 0.3.353

hash\_save/2

- 0.3.362

if\_any/3

- 0.3.691

term\_of/2

### 0.3.72 Predicate:

argn/3

INFO: generates all n args of term

EXAMPLE(S):

?-argn(\_A,f(a,b),\_B).

\_A = 1;

\_B = a;

\_A = 2;

\_B = b;

no

Calls:

- 0.3.71

arg/3

- 0.3.289

for/3

- 0.3.300

functor/3

- 0.3.487

nonvar/1

### 0.3.73 Predicate:

`arith_dif/2`

INFO: arithmetic comparison

#### Is called from:

- 0.3.34

`(=\=)/2`

### 0.3.74 Predicate:

`arith_eq/2`

INFO: arithmetic comparison

#### Is called from:

- 0.3.31

`(=:)/2`

### 0.3.75 Predicate:

`array_get/3`

INFO: gets and dereferences array element

#### Is called from:

- 0.3.136

`cdelq/4`

- 0.3.137

`cdelq_any/3`

- 0.3.157

`cmembq/3`

- 0.3.206

`db_retract/3`

- 0.3.754

`vget/2`

### **0.3.76 Predicate:**

`array_get0/3`

INFO: gets array element

#### **Is called from:**

- 0.3.755

`vget0/2`

### **0.3.77 Predicate:**

`array_set/3`

INFO: sets array element

#### **Is called from:**

- 0.3.760

`vset/2`

### **0.3.78 Predicate:**

`asin/2`

INFO: float function

### **0.3.79 Predicate:**

`ask/5`

INFO: `ask(ClientSocket,X,G,W,R)`: calls rpc server on on ClientSocket with query X goal G password W and ge

#### **Calls:**

- 0.3.29

`(=)/2`

#### **Is called from:**

- 0.3.584

`rpc/3`



### **0.3.80 Predicate:**

`ask_engine/2`

INFO: `ask_engine(E,X)` retrieves from engine E (a copy of) answer X

Is called from:

- 0.3.309

`get/2`

### **0.3.81 Predicate:**

`ask_thread/2`

INFO: `(E,R)`: asks an answer of engine E on a new thread R

Is called from:

- 0.3.114

`bg/7`

### **0.3.82 Predicate:**

`asm/0`

INFO: shows transformations and readable BinWAM assembler for Prolog code entered at terminal

### **0.3.83 Predicate:**

`asm/1`

INFO: generates readable binarized form and BinWAM assembler to a file

### **0.3.84 Predicate:**

`assert/1`

INFO: adds a clause

Calls:

- 0.3.89

`assertz/1`

**Is called from:**

- 0.3.611

set\_default/1

**0.3.85 Predicate:**

assert\_from\_chars/1

INFO: asserts a program from clauses in list of chars

**Calls:**

- 0.3.86

assert\_from\_chars/2

- 0.3.177

current\_db/1

**0.3.86 Predicate:**

assert\_from\_chars/2

INFO: (Db,Cs) asserts to database Db, a set of clauses parsed from list of char codes Cs

**Calls:**

- 0.3.294

foreach/2

**Is called from:**

- 0.3.85

assert\_from\_chars/1

**0.3.87 Predicate:**

asserta/1

INFO: adds a clause to be first in a predicate definition

**Calls:**

- 0.3.177  
current\_db/1
- 0.3.192  
db\_asserta/2
- 0.3.773  
x\_asserta/1

**0.3.88 Predicate:**

asserted/1

INFO: runs a predicated if asserted

**Calls:**

- 0.3.143  
clause/2
- 0.3.487  
nonvar/1

**0.3.89 Predicate:**

assertz/1

INFO: adds a clause to be last in a predicate definition

**Calls:**

- 0.3.177  
current\_db/1
- 0.3.194  
db\_assertz/2
- 0.3.774  
x\_assertz/1

**Is called from:**

- 0.3.84

assert/1

**0.3.90 Predicate:**

atan/2

INFO: float function

**0.3.91 Predicate:**

atan2/3

INFO: float function

**0.3.92 Predicate:**

atom/1

INFO: true if symbol (functor of arity 0)

EXAMPLE(S):

?-atom(a).

yes

**Calls:**

- 0.3.95

atomic/1

- 0.3.263

fail/0

- 0.3.369

integer/1

**Is called from:**

- 0.3.94

atom\_codes/2

- 0.3.277

find\_file/2

### 0.3.93 Predicate:

atom\_chars/2

INFO: (Atom,CharAtoms): converts between an atom and its list of char atoms representation

EXAMPLE(S):

```
?-atom_chars(hello,_A).  
_A = [h,e,l,l,o];
```

no

```
?-atom_chars(_A,[104,101,108,108,111]).  
no
```

Calls:

- 0.3.94

atom\_codes/2

- 0.3.487

nonvar/1

### 0.3.94 Predicate:

atom\_codes/2

INFO: (Atom,CharCodes): converts between an atom and its list of char code representation

EXAMPLE(S):

```
?-atom_codes(hello,_A).  
_A = [104,101,108,108,111];
```

no

```
?-atom_codes(_A,[104,101,108,108,111]).  
_A = hello;
```

no

Calls:

- 0.3.29

(=)/2

- 0.3.92

atom/1

- 0.3.471

name/2

- 0.3.495

number/1

**Is called from:**

- 0.3.93

atom\_chars/2

- 0.3.397

listify/2

- 0.3.419

make\_cmd/2

- 0.3.670

swrite/2

- 0.3.765

words\_code/2

**0.3.95 Predicate:**

atomic/1

INFO: true if an integer or symbolic constant

**Is called from:**

- 0.3.92

atom/1

- 0.3.150

close/1

- 0.3.164

compound/1

- 0.3.421

make\_compileable/2

- 0.3.498

numbervars/3

- 0.3.678

system/2

- 0.3.728

trim\_term/4

### 0.3.96 Predicate:

bagof/3

INFO: all solutions predicate generating unsorted bags of possibly duplicated answers

EXAMPLE(S):

```
?-bagof(_A,member(_A,[3,2,2,1]),_B).
```

```
_A = _x149050;
```

```
_B = [3,2,2,1];
```

no

### Calls:

- 0.3.29

(=)/2

- 0.3.30

(=..)/2

- 0.3.49

(\==)/2

- 0.3.300

functor/3

- 0.3.390

keysort/2

### **0.3.97 Predicate:**

`bb/0`

INFO: lists (long!) content of the blackboard

### **0.3.98 Predicate:**

`bb_def/3`

INFO: `bb_def(K1,K2,T)` associates to `K1` and `K2` (a copy of) `T` on the blackboard

### **Is called from:**

- 0.3.102

`bb_let/3`

- 0.3.430

`map_put/3`

- 0.3.711

`to_engine/2`

### **0.3.99 Predicate:**

`bb_gc/0`

INFO: performs blackboard gc now, if enabled

### **Calls:**

- 0.3.108

`bbgc_status/1`

- 0.3.128

`call_ifdef/2`

- 0.3.148

`clear_bp_error/0`

- 0.3.258

`errmes/2`

- 0.3.263

`fail/0`



**Is called from:**

- 0.3.56

addq/3

- 0.3.538

pushq/3

**0.3.100 Predicate:**

bb\_gc0/0

INFO: performs blackboard gc now, in this engine

**Calls:**

- 0.3.103

bb\_reset/1

- 0.3.168

copy\_term/2

- 0.3.220

debugmes/1

- 0.3.263

fail/0

- 0.3.372

(is)/2

- 0.3.663

statistics/2

**0.3.101 Predicate:**

bb\_get/3

INFO: bb\_get(K1,K2,T) consumes the term T associated with K1 and K2

**Calls:**

- 0.3.104

bb\_rm/2

- 0.3.106

bb\_val/3

**0.3.102 Predicate:**

bb\_let/3

INFO: bb\_let(K1,K2,T) updates or defines the term associated with K1 and K2 to be T

**Calls:**

- 0.3.98

bb\_def/3

- 0.3.105

bb\_set/3

**Is called from:**

- 0.3.357

hide\_default/1

- 0.3.367

init\_gensym/1

- 0.3.609

set\_c\_threshold/2

- 0.3.650

(spy)/1

**0.3.103 Predicate:**

bb\_reset/1

INFO: cleans up and resizes to at least arg 1 bytes compound term area of the blackboard

**Is called from:**

- 0.3.100

bb\_gc0/0

**0.3.104 Predicate:**

bb\_rm/2

INFO: removes the term associated with K1 and K2 from the blackboard

**Is called from:**

- 0.3.101

bb\_get/3

- 0.3.298

from\_engine/1

- 0.3.488

(nospy)/1

**0.3.105 Predicate:**

bb\_set/3

INFO: bb\_set(K1,K2,T) updates the term associated with K1 and K2 to be a copy of T

**Is called from:**

- 0.3.102

bb\_let/3

- 0.3.430

map\_put/3

**0.3.106 Predicate:**

bb\_val/3

INFO: bb\_val(K1,K2,T) T is (a copy of) the term associated with keys K1 and K2

**Calls:**

- 0.3.168

copy\_term/2

**Is called from:**

- 0.3.101

bb\_get/3

- 0.3.183

current\_module/1

- 0.3.298

from\_engine/1

- 0.3.383

is\_module/1

- 0.3.385

is\_prolog/1

- 0.3.427

map\_get/3

- 0.3.628

show\_default/1

**0.3.107 Predicate:**

bbgc/0

INFO: enables blackboard gc

**0.3.108 Predicate:**

bbgc\_status/1

INFO: shows if blackboard gc is enabled or not

**Calls:**

- 0.3.755

vget0/2

**Is called from:**

- 0.3.99

bb\_gc/0

**0.3.109 Predicate:**

begin\_critical/0

INFO: begin serialized execution - enters critical region

**Calls:**

- 0.3.412

lock\_thread\_guard/1

**Is called from:**

- 0.3.597

sdebug/1

**0.3.110 Predicate:**

bg/1

INFO: runs Goal in background thread - you can set engine size like in heap(500)=>bg(...)

**Calls:**

- 0.3.111

bg/2

**Is called from:**

- 0.3.588

rpc\_test/0

### 0.3.111 Predicate:

bg/2

INFO: runs Goal in new background thread, which is returned in second arg

#### Calls:

- 0.3.112

bg/3

#### Is called from:

- 0.3.110

bg/1

### 0.3.112 Predicate:

bg/3

INFO: bg(Goal,Thread,EngineAddr): runs goal in background if threads are available

#### Calls:

- 0.3.113

bg/4

#### Is called from:

- 0.3.111

bg/2

- 0.3.710

timed\_call/4

### 0.3.113 Predicate:

bg/4

INFO: bg(Goal,Thread,EngineAddr,EngineID): runs goal in background on new engine - with unique EngineID

#### Calls:

- 0.3.114

bg/7

**Is called from:**

- 0.3.112

bg/3

**0.3.114 Predicate:**

bg/7

INFO: bg(Goal,H,S,T,-Thread,-EngineAddr,-EngineID): runs goal in background on engine with given heap,stack

**Calls:**

- 0.3.81

ask\_thread/2

- 0.3.220

debugmes/1

- 0.3.318

get\_engine\_id/2

- 0.3.338

has\_threads/0

- 0.3.402

load\_engine/3

- 0.3.723

topcall/1

**Is called from:**

- 0.3.113

bg/4

- 0.3.594

run\_server/6

**0.3.115 Predicate:**

boot/0

INFO: regenerates file wam.bp in BinProlog src directory

**Is called from:**

- 0.3.568

reboot/0

**0.3.116 Predicate:**

bp\_info/2

INFO: keeps basic help info on BinProlog builtins

**Calls:**

- 0.3.300

functor/3

- 0.3.372

(is)/2

- 0.3.487

nonvar/1

**Is called from:**

- 0.3.70

apropos/2

**0.3.117 Predicate:**

bp\_only/1

INFO: runs goal only if is\_prolog(binprolog) is true

**Calls:**

- 0.3.118

bp\_only/2

**0.3.118 Predicate:**

bp\_only/2

INFO: (Goal,Alternative): runs goal only if is\_prolog(binprolog) is true otherwise runs Alternative



**Calls:**

- 0.3.385

is\_prolog/1

**Is called from:**

- 0.3.117

bp\_only/1

**0.3.119 Predicate:**

bp\_val/3

INFO: unifies with 2 key indexed global logical variable

**0.3.120 Predicate:**

call/1

INFO: executes (atomic!) arg 1

**0.3.121 Predicate:**

call/2

INFO: efficient call/N variant

**Calls:**

- 0.3.687

term\_append/3

**Is called from:**

- 0.3.364

include/1

**0.3.122 Predicate:**

call/3

INFO: efficient call/N variant

**Calls:**

- 0.3.687

term\_append/3

**0.3.123 Predicate:**

call/4

INFO: efficient call/N variant

**Calls:**

- 0.3.687

term\_append/3

**Is called from:**

- 0.3.165

compute/4

**0.3.124 Predicate:**

call/5

INFO: efficient call/N variant

**Calls:**

- 0.3.687

term\_append/3

**0.3.125 Predicate:**

call/6

INFO: efficient call/N variant

**Calls:**

- 0.3.687

term\_append/3

### **0.3.126 Predicate:**

`call/7`

INFO: efficient call/N variant

#### **Calls:**

- 0.3.687

`term_append/3`

### **0.3.127 Predicate:**

`call_external/3`

INFO: args: `StringToStringFunctionAddress, InputChars, OutputChars` - calls a C function

### **0.3.128 Predicate:**

`call_ifdef/2`

INFO: calls if predicate head is defined, calls arg 2 if not

#### **Calls:**

- 0.3.220

`debugmes/1`

- 0.3.263

`fail/0`

- 0.3.376

`is_compiled/1`

#### **Is called from:**

- 0.3.99

`bb_gc/0`

- 0.3.533

`prolog_load/1`

- 0.3.575

restart/0

- 0.3.629

show\_defaults/0

- 0.3.778

x\_gc/0

- 0.3.788

xload/1

### 0.3.129 Predicate:

call\_jinni/1

INFO: call\_jinni(G) calls Jinni in Twin Prolog with first answer binding G and fails if no answers are found

#### Calls:

- 0.3.29

(=)/2

- 0.3.130

call\_jinni/2

### 0.3.130 Predicate:

call\_jinni/2

INFO: call\_jinni(G,R) calls Jinni in Twin Prolog with first answer R=the(G) or R=no, without binding G

#### Calls:

- 0.3.131

call\_jinni/3

#### Is called from:

- 0.3.129

call\_jinni/1

### 0.3.131 Predicate:

call\_jinni/3

INFO: call\_jinni(X,G,R) calls Jinni in Twin Prolog with first answer R=the(X) or R=no, without binding G

#### Calls:

- 0.3.29

(=)/2

#### Is called from:

- 0.3.130

call\_jinni/2

- 0.3.572

remote\_run/6

### 0.3.132 Predicate:

callable/1

INFO: checks if predicate head is defined (callable)

#### Calls:

- 0.3.300

functor/3

- 0.3.376

is\_compiled/1

- 0.3.378

is\_dynamic/1

- 0.3.487

nonvar/1

#### Is called from:

- 0.3.222

default/2

### 0.3.133 Predicate:

catch/3

INFO: ISO Prolog exception operator: executes arg 1 and if it catches arg 2, it executes arg 3

#### Calls:

- 0.3.263

fail/0

### 0.3.134 Predicate:

cd/0

INFO: changes local dir to HOME directory or / if no such env var

### 0.3.135 Predicate:

cd/1

INFO: changes local dir to arg 1

#### Calls:

- 0.3.742

unix\_cd/1

### 0.3.136 Predicate:

cdelq/4

INFO: deletes first matching element from a queue

EXAMPLE(S):

```
?-cdelq(key1,key2,_A,_B).
```

```
_A = _x148849;
```

```
_B = 33;
```

no

#### Calls:

- 0.3.75

array\_get/3

**Is called from:**

- 0.3.190

db\_abolish/2

- 0.3.207

db\_retract1/2

- 0.3.426

map\_gc/1

- 0.3.458

mmap\_rm\_one/3

### **0.3.137 Predicate:**

cdelq\_any/3

INFO: deletes any matching element from a queue

EXAMPLE(S):

```
?-cdelq_any(key1,key2,_A).  
no
```

**Calls:**

- 0.3.75

array\_get/3

**Is called from:**

- 0.3.456

mmap\_rm/3

### **0.3.138 Predicate:**

ceiling/2

INFO: float to int function

EXAMPLE(S):

```
?-ceiling(1.3,_A).  
_A = 2;
```

no

**Calls:**

- 0.3.370

integer/2

- 0.3.372

(is)/2

**0.3.139 Predicate:**

change\_arg/3

INFO: destructive: change\_arg(I,T,X) replaces arg I of T with X

EXAMPLE(S):

?-change\_arg(2,f(a,b),c).

yes

**Is called from:**

- 0.3.362

if\_any/3

**0.3.140 Predicate:**

char\_of/2

INFO: reads a Prolog file to a set of ascii codes - on backtracking

**Calls:**

- 0.3.29

(=)/2

- 0.3.31

(=:)/2

- 0.3.263

fail/0

- 0.3.267

fclose/1



- 0.3.270

fgetc/2

- 0.3.277

find\_file/2

- 0.3.288

fopen/3

- 0.3.574

repeat/0

#### **0.3.141 Predicate:**

check\_password/1

INFO: checks that password matches default password

#### **Calls:**

- 0.3.33

(==)/2

- 0.3.225

default\_password/1

- 0.3.258

errmes/2

#### **0.3.142 Predicate:**

cin/1

INFO: tries to get and remove a term from Linda blackboard

#### **Calls:**

- 0.3.406

local\_cin/1

### 0.3.143 Predicate:

clause/2

INFO: clause(H,B) generates a clause with head matching H and body B

#### Calls:

- 0.3.177  
current\_db/1
- 0.3.195  
db\_clause/3
- 0.3.775  
x\_clause/2

#### Is called from:

- 0.3.88  
asserted/1

### 0.3.144 Predicate:

clause\_of/2

INFO: reads a Prolog file to a set of clauses - on backtracking

#### Calls:

- 0.3.691  
term\_of/2

### 0.3.145 Predicate:

clean\_up\_dead\_engines/0

INFO: frees resources used by dead engines

#### Calls:

- 0.3.29  
(=)/2
- 0.3.147  
clean\_up\_engines/1

### **0.3.146 Predicate:**

`clean_up_engines/0`

INFO: frees resources used by all engines except main

#### **Calls:**

- 0.3.147

`clean_up_engines/1`

### **0.3.147 Predicate:**

`clean_up_engines/1`

INFO: internal predicate

#### **Calls:**

- 0.3.29

`(=)/2`

- 0.3.34

`(=\=)/2`

- 0.3.220

`debugmes/1`

- 0.3.232

`destroy_engine/1`

- 0.3.263

`fail/0`

- 0.3.319

`get_engine_prop/3`

- 0.3.396

`list_engines/1`

- 0.3.442

`member/2`

**Is called from:**

- 0.3.145

clean\_up\_dead\_engines/0

- 0.3.146

clean\_up\_engines/0

**0.3.148 Predicate:**

clear\_bp\_error/0

INFO: clears errors set by various conditions

**Calls:**

- 0.3.607

set\_bp\_error/4

**Is called from:**

- 0.3.56

addq/3

- 0.3.99

bb\_gc/0

- 0.3.538

pushq/3

**0.3.149 Predicate:**

clone\_term/3

INFO: clone\_term(Vs,T,CT) does copy\_term(T,C) while keeping unchanged variables Vs - useful if doing things

EXAMPLE(S):

```
?-clone_term([_A,_C],f(_A,_B,_B,_C),_D).
_A = _x149826;
_B = _x149196;
_C = _x149829;
_D = f(_x149826,_x149827,_x149827,_x149829);
```

no

**Calls:**

- 0.3.168

copy\_term/2

**0.3.150 Predicate:**

close/1

INFO: closes a stream opened by open/3

**Calls:**

- 0.3.95

atomic/1

**0.3.151 Predicate:**

close\_iterator/1

INFO: (Iterator) closes an iterator

**Calls:**

- 0.3.692

term\_store\_op/4

**Is called from:**

- 0.3.311

get\_all\_terms/2

**0.3.152 Predicate:**

close\_socket/1

INFO: closes a server, service or client

**0.3.153 Predicate:**

close\_stream/2

INFO: (Type,StreamID) closes various streams

**Is called from:**

- 0.3.267

fclose/1

**0.3.154 Predicate:**

cmake/0

INFO: compiles BinProlog's Prolog components to compact C code - for packaging as standalone executable

**Calls:**

- 0.3.155

cmake/1

**0.3.155 Predicate:**

cmake/1

INFO: compiles a Project to compact C code - for packaging as standalone executable

**Calls:**

- 0.3.156

cmake/2

**Is called from:**

- 0.3.154

cmake/0

**0.3.156 Predicate:**

cmake/2

INFO: (Project,Module): compiles to C a project with all clauses belonging to Module

**Is called from:**

- 0.3.155

cmake/1

- 0.3.550

qmake/2

### 0.3.157 Predicate:

cmembq/3

INFO: generates (copies of) members of a queue

EXAMPLE(S):

```
?-cmembq(key1,key2,_A).  
no
```

Calls:

- 0.3.75

array\_get/3

Is called from:

- 0.3.195

db\_clause/3

- 0.3.428

map\_key/2

- 0.3.451

mmap\_get/3

- 0.3.452

mmap\_key/2

### 0.3.158 Predicate:

cnl/0

INFO: writes a new line

Is called from:

- 0.3.484

nl/0

### 0.3.159 Predicate:

co/0

INFO: reconsults/recompiles last file

**Calls:**

- 0.3.364  
include/1

**0.3.160 Predicate:**

co/1

INFO: reconsults using fast reader

**Calls:**

- 0.3.569  
reconsult/1

**Is called from:**

- 0.3.790  
~ /1

**0.3.161 Predicate:**

codes\_words/2

INFO: converts a list of character codes to a list of words and back

**Calls:**

- 0.3.719  
to\_words/2
- 0.3.751  
var/1
- 0.3.765  
words\_code/2

**Is called from:**

- 0.3.567  
read\_words/1
- 0.3.604  
sentence\_of/2
- 0.3.720  
token\_of/2



### 0.3.162 Predicate:

compare/3

INFO: returns <,=,> in arg 1 after comparing arg 2 with arg 3

EXAMPLE(S):

?-compare(\_A,1,2).

\_A = (<);

no

?-compare(\_A,f(b),f(a)).

\_A = (>);

no

?-compare(\_A,s(\_B),s(\_B)).

\_A = (=);

\_B = \_x149196;

no

### 0.3.163 Predicate:

compile/1

INFO: applies current compilation method to the file arg 1

### 0.3.164 Predicate:

compound/1

INFO: true if it has arity > 0

EXAMPLE(S):

?-compound(f(a)).

yes

Calls:

- 0.3.95

atomic/1

- 0.3.487

nonvar/1

### **0.3.165 Predicate:**

`compute/4`

INFO: applies Op to arg 2 and arg 3 giving a result

#### **Calls:**

- 0.3.123

`call/4`

### **0.3.166 Predicate:**

`consult/1`

INFO: consults with possible duplication of clauses, allows later dynamic recompilation depending on db\_ra

#### **Calls:**

- 0.3.167

`consult/2`

- 0.3.177

`current_db/1`

- 0.3.776

`x_consult/1`

#### **Is called from:**

- 0.3.788

`xload/1`

### **0.3.167 Predicate:**

`consult/2`

INFO: `consult(File,DB)` consults File into DB)

#### **Calls:**

- 0.3.198

`db_consult/2`

**Is called from:**

- 0.3.166

consult/1

**0.3.168 Predicate:**

copy\_term/2

INFO: returns a copy of arg 1 with fresh variables

EXAMPLE(S):

```
?-copy_term(f(_A,_A,_B,_B),_C).  
_A = _x149028;  
_B = _x149030;  
_C = f(_x149464,_x149464,_x149466,_x149466);
```

no

**Is called from:**

- 0.3.11

\$process\_catch/3

- 0.3.100

bb\_gc0/0

- 0.3.106

bb\_val/3

- 0.3.149

clone\_term/3

- 0.3.696

the/3

**0.3.169 Predicate:**

cos/2

INFO: float function

### 0.3.170 Predicate:

count\_terms/2

INFO: returns the number of terms attached to a key

#### Calls:

- 0.3.692

term\_store\_op/4

### 0.3.171 Predicate:

cout/1

INFO: adds a term to the blackboard, unless already a matching one is there

#### Calls:

- 0.3.407

local\_cout/1

### 0.3.172 Predicate:

cpopq/3

INFO: pops (copy of) first element of persistent queue

EXAMPLE(S):

```
?-cpopq(key1,key2,_A).  
no
```

#### Calls:

- 0.3.49

(\==)/2

- 0.3.258

errmes/2

- 0.3.312

get\_bp\_error/4

### **0.3.173 Predicate:**

`create_engine/1`

INFO: makes a new engine or reuses a dead one

Is called from:

- 0.3.505

`open_engine/3`

### **0.3.174 Predicate:**

`create_engine/4`

INFO: `create_engine(Heap,Stack,Trail,IntHandle)` creates an engine `IntHandle`

Is called from:

- 0.3.175

`create_new_engine/1`

### **0.3.175 Predicate:**

`create_new_engine/1`

INFO: creates an engine as big as the current one

Calls:

- 0.3.174

`create_engine/4`

### **0.3.176 Predicate:**

`ctime/1`

INFO: gets elapsed cpu time in ms

EXAMPLE(S):

`?-ctime(_A).`

`_A = 7046;`

no

**Calls:**

- 0.3.663  
statistics/2

**Is called from:**

- 0.3.342  
hash\_compile/0
- 0.3.589  
rpc\_test/1
- 0.3.778  
x\_gc/0
- 0.3.787  
x\_traced\_call/1

**0.3.177 Predicate:**

current\_db/1

INFO: gets the name of currently active database

**Calls:**

- 0.3.755  
vget0/2

**Is called from:**

- 0.3.51  
abolish/1
- 0.3.85  
assert\_from\_chars/1
- 0.3.87  
asserta/1
- 0.3.89

- assertz/1
- 0.3.143
- clause/2
- 0.3.166
- consult/1
- 0.3.196
- db\_clean/0
- 0.3.210
- db\_save/1
- 0.3.243
- dyn2stat/1
- 0.3.374
- is\_asserted/1
- 0.3.421
- make\_compileable/2
- 0.3.499
- oconsult/1
- 0.3.576
- retract/1
- 0.3.577
- retract1/1
- 0.3.578
- retractall/1
- 0.3.659
- stat2dyn/1
- 0.3.697
- this\_db/1

### **0.3.178 Predicate:**

`current_engine/1`

INFO: gets the unique id of the current engine

### **Calls:**

- 0.3.180

`current_engine_id/1`

### **0.3.179 Predicate:**

`current_engine_addr/1`

INFO: returns current engine handle

### **Is called from:**

- 0.3.180

`current_engine_id/1`

- 0.3.181

`current_engine_thread/1`

- 0.3.698

`this_engine/1`

### **0.3.180 Predicate:**

`current_engine_id/1`

INFO: returns a unique id associated to an engine at creation time

### **Calls:**

- 0.3.179

`current_engine_addr/1`

- 0.3.318

`get_engine_id/2`



**Is called from:**

- 0.3.178

current\_engine/1

**0.3.181 Predicate:**

current\_engine\_thread/1

INFO: gets from the current Engine the thread it is running on

**Calls:**

- 0.3.179

current\_engine\_addr/1

- 0.3.320

get\_engine\_thread/2

**Is called from:**

- 0.3.408

local\_in/1

- 0.3.411

local\_when/1

**0.3.182 Predicate:**

current\_input/1

INFO: gets current input stream

**Is called from:**

- 0.3.513

pcollect/2

**0.3.183 Predicate:**

current\_module/1

INFO: gets name of current module

**Calls:**

- 0.3.29

(=)/2

- 0.3.106

bb\_val/3

**Is called from:**

- 0.3.255

end\_module/1

**0.3.184 Predicate:**

current\_op/3

INFO: generates/check current op/3 operator definition(s)

**Calls:**

- 0.3.263

fail/0

- 0.3.289

for/3

- 0.3.487

nonvar/1

**Is called from:**

- 0.3.380

is\_interactive/0

**0.3.185 Predicate:**

current\_output/1

INFO: gets current output stream

### **0.3.186 Predicate:**

`current_predicate/1`

INFO: generates/checks the head of an existing predicate

#### **Calls:**

- 0.3.300  
`functor/3`
- 0.3.487  
`nonvar/1`

### **0.3.187 Predicate:**

`current_predicate/2`

INFO: generates/checks name and head of a currently defined predicate

#### **Calls:**

- 0.3.300  
`functor/3`
- 0.3.487  
`nonvar/1`

#### **Is called from:**

- 0.3.629  
`show_defaults/0`

### **0.3.188 Predicate:**

`current_thread/1`

INFO: gets thread id number of current thread

### **0.3.189 Predicate:**

`cwrite/1`

INFO: basic but quick C-version of `write/1`

### **0.3.190 Predicate:**

`db_abolish/2`

INFO: `db_abolish(DB,F/N)` removes predicate F/N from DB

#### **Calls:**

- 0.3.136  
`cdelq/4`
- 0.3.300  
`functor/3`

#### **Is called from:**

- 0.3.51  
`abolish/1`
- 0.3.203  
`db_move/2`
- 0.3.209  
`db_retractall/3`

### **0.3.191 Predicate:**

`db_assert/2`

INFO: does `assert/1` arg 2 into database given as arg 1

#### **Calls:**

- 0.3.194  
`db_assertz/2`

### **0.3.192 Predicate:**

`db_asserta/2`

INFO: does `asserta/1` arg 2 into database given as arg 1

**Calls:**

- 0.3.538

pushq/3

**Is called from:**

- 0.3.87

asserta/1

- 0.3.209

db\_retractall/3

**0.3.193 Predicate:**

db\_asserted/2

INFO: runs predicate arg 2 if asserted in database arg 1

**Calls:**

- 0.3.195

db\_clause/3

- 0.3.487

nonvar/1

**0.3.194 Predicate:**

db\_assertz/2

INFO: does assertz/1 arg 2 into database given as arg 1

**Calls:**

- 0.3.56

addq/3

**Is called from:**

- 0.3.89

assertz/1

- 0.3.191

db\_assert/2

### **0.3.195 Predicate:**

db\_clause/3

INFO: clause(DB,H,B) generates a clause found in database DB with head matching H and body B

#### **Calls:**

- 0.3.157  
cmembq/3
- 0.3.199  
db\_head/2
- 0.3.487  
nonvar/1

#### **Is called from:**

- 0.3.143  
clause/2
- 0.3.193  
db\_asserted/2
- 0.3.211  
db\_save/2

### **0.3.196 Predicate:**

db\_clean/0

INFO: abolishes all predicates in currently active database

#### **Calls:**

- 0.3.177  
current\_db/1
- 0.3.197  
db\_clean/1

### **0.3.197 Predicate:**

`db_clean/1`

INFO: `db_clean(DB)` abolishes all predicates in DB

#### **Calls:**

- 0.3.263

`fail/0`

#### **Is called from:**

- 0.3.196

`db_clean/0`

- 0.3.421

`make_compileable/2`

### **0.3.198 Predicate:**

`db_consult/2`

INFO: `db_consult(File,Db)` consults a file to a database Db

#### **Calls:**

- 0.3.277

`find_file/2`

#### **Is called from:**

- 0.3.167

`consult/2`

### **0.3.199 Predicate:**

`db_head/2`

INFO: generates/checks a predicate head in database (arg 1)

#### **Calls:**

- 0.3.300

`functor/3`

**Is called from:**

- 0.3.195

db\_clause/3

- 0.3.203

db\_move/2

- 0.3.660

stat2dyn/2

**0.3.200 Predicate:**

db\_is\_dynamic/2

INFO: checks if dynamic in a given database

**0.3.201 Predicate:**

db\_listing/1

INFO: lists clauses given database

**0.3.202 Predicate:**

db\_listing/2

INFO: lists predicate F/N in given database

**Calls:**

- 0.3.300

functor/3

**0.3.203 Predicate:**

db\_move/2

INFO: db\_move(FromDB,ToDB) moves the content of database FromDB over database ToDB while replacing similar



**Calls:**

- 0.3.190  
db\_abolish/2
- 0.3.199  
db\_head/2
- 0.3.263  
fail/0
- 0.3.300  
functor/3

**Is called from:**

- 0.3.499  
oconsult/1

**0.3.204 Predicate:**

db\_ratio/1

INFO: sets/gets call/assert ratio which triggers dynamic recompilation

**Calls:**

- 0.3.369  
integer/1
- 0.3.755  
vget0/2
- 0.3.760  
vset/2

**Is called from:**

- 0.3.247  
dynco/1

### 0.3.205 Predicate:

db\_retract/2

INFO: does retract/1 arg 2 from database given as arg 1

#### Calls:

- 0.3.206

db\_retract/3

#### Is called from:

- 0.3.576

retract/1

### 0.3.206 Predicate:

db\_retract/3

INFO: db\_retract(Db,H,B) retracts clause with head H and body B from database Db

#### Calls:

- 0.3.75

array\_get/3

#### Is called from:

- 0.3.205

db\_retract/2

### 0.3.207 Predicate:

db\_retract1/2

INFO: deletes from database given as arg 1 a matching clause

#### Calls:

- 0.3.29

(=)/2

- 0.3.136

cdelq/4

**Is called from:**

- 0.3.209

db\_retractall/3

- 0.3.577

retract1/1

**0.3.208 Predicate:**

db\_retractall/2

INFO: removes from database given as arg 1, all matching clauses

**Calls:**

- 0.3.209

db\_retractall/3

**Is called from:**

- 0.3.578

retractall/1

**0.3.209 Predicate:**

db\_retractall/3

INFO: removes from database given as arg 1, all matching clauses seen as head + body

**Calls:**

- 0.3.71

arg/3

- 0.3.190

db\_abolish/2

- 0.3.192

db\_asserta/2

- 0.3.207

db\_retract1/2

- 0.3.289

for/3

- 0.3.300

functor/3

- 0.3.487

nonvar/1

**Is called from:**

- 0.3.208

db\_retractall/2

**0.3.210 Predicate:**

db\_save/1

INFO: db\_save(File) saves all the clauses of the current database to File

**Calls:**

- 0.3.177

current\_db/1

- 0.3.211

db\_save/2

**Is called from:**

- 0.3.789

xsave/1

**0.3.211 Predicate:**

db\_save/2

INFO: db\_save(Db,File) saves using qprint/1 all the clauses of Db to File

**Calls:**

- 0.3.195  
db\_clause/3
- 0.3.263  
fail/0
- 0.3.551  
qprint/1
- 0.3.682  
tell/1
- 0.3.722  
told/0

**Is called from:**

- 0.3.210  
db\_save/1

**0.3.212 Predicate:**

dcg\_call/4

INFO: (F,X,I,0): DCG metacall for star,plus,one

**Calls:**

- 0.3.30  
(=..)/2
- 0.3.723  
topcall/1

**Is called from:**

- 0.3.502  
one/4
- 0.3.519  
plus/4
- 0.3.655  
star/4

### 0.3.213 Predicate:

`dcg_call/5`

INFO: (F,X,Y,I,O): DCG metacall for `star,plus,one`

### Calls:

- 0.3.30

`(=..)/2`

- 0.3.723

`topcall/1`

### 0.3.214 Predicate:

`dcg_connect/1`

INFO: handles a terminal symbol in HAGs, as `[a]` in DCGs

### 0.3.215 Predicate:

`dcg_def/1`

INFO: backtrackable: sets current Assumption Grammar stream - usually a hidden DCG list

### 0.3.216 Predicate:

`dcg_tell/1`

INFO: switches to hidden DCG-stream number K (form 0 to MAXDCG=255)

### 0.3.217 Predicate:

`dcg_telling/1`

INFO: retrieves which hidden DCG-stream we are processing

EXAMPLE(S):

```
?-dcg_telling(_A).
```

```
_A = 1;
```

```
no
```

### **0.3.218 Predicate:**

`dcg_val/1`

INFO: backtrackable: retrieves current Assumption Grammar stream - usually a hidden DCG list

### **0.3.219 Predicate:**

`dconsult/1`

INFO: reconsult/1 variant: cleans up data areas, consults/compiles based on `db_ratio/1`

### **0.3.220 Predicate:**

`debugmes/1`

INFO: writes message in debug mode (low quietness)

### **Calls:**

- 0.3.554  
`quietmes/2`

### **Is called from:**

- 0.3.100  
`bb_gc0/0`
- 0.3.114  
`bg/7`
- 0.3.128  
`call_ifdef/2`
- 0.3.147  
`clean_up_engines/1`
- 0.3.364  
`include/1`
- 0.3.548  
`qfindall/4`
- 0.3.649  
`spawn/3`
- 0.3.710  
`timed_call/4`

### 0.3.221 Predicate:

deep\_hash/4

INFO: (Key,Depth,Mod) computes hashvalue of Key modulo Mod, up to max recursion Depth

EXAMPLE(S):

```
?-deep_hash(f(a),5,0,_A).  
_A = 23114257;
```

no

```
?-deep_hash(f(b),1,32,_A).  
_A = 18;
```

no

Is called from:

- 0.3.332

ground/1

- 0.3.358

hkey/2

- 0.3.690

term\_hash/2

### 0.3.222 Predicate:

default/2

INFO: default that can be overridden if asserted

EXAMPLE(S):

```
?-default(host(_A),_A = localhost).  
_A = localhost;
```

no

Calls:

- 0.3.132

callable/1

- 0.3.628

show\_default/1



**Is called from:**

- 0.3.223  
default\_host/1
- 0.3.224  
default\_login/1
- 0.3.225  
default\_password/1
- 0.3.226  
default\_port/1
- 0.3.227  
default\_this\_host/1
- 0.3.228  
default\_this\_port/1
- 0.3.229  
default\_timeout/1
- 0.3.531  
prolog\_flag/2

**0.3.223 Predicate:**

default\_host/1

INFO: returns default host for remote Linda server

**Calls:**

- 0.3.222  
default/2

**Is called from:**

- 0.3.570  
remote\_run/1
- 0.3.656  
start\_rpc/0

#### **0.3.224 Predicate:**

default\_login/1

INFO: returns default (nick)name for user

#### **Calls:**

- 0.3.222

default/2

#### **0.3.225 Predicate:**

default\_password/1

INFO: returns default password for user

#### **Calls:**

- 0.3.222

default/2

#### **Is called from:**

- 0.3.141

check\_password/1

- 0.3.571

remote\_run/3

- 0.3.585

rpc\_server/0

- 0.3.656

start\_rpc/0

#### **0.3.226 Predicate:**

default\_port/1

INFO: returns default port for remote Linda server

**Calls:**

- 0.3.222  
default/2

**Is called from:**

- 0.3.570  
remote\_run/1
- 0.3.656  
start\_rpc/0

**0.3.227 Predicate:**

default\_this\_host/1

INFO: returns default IP address or hostname this machine

**Calls:**

- 0.3.222  
default/2

**0.3.228 Predicate:**

default\_this\_port/1

INFO: returns default port to work as a server on

**Calls:**

- 0.3.35  
(>)/2
- 0.3.222  
default/2
- 0.3.755  
vget0/2

**Is called from:**

- 0.3.585

rpc\_server/0

- 0.3.591

run\_server/0

**0.3.229 Predicate:**

default\_timeout/1

INFO: returns default timeout

**Calls:**

- 0.3.222

default/2

**Is called from:**

- 0.3.586

rpc\_server/2

- 0.3.708

thread\_wait/1

**0.3.230 Predicate:**

delete\_all\_terms/1

INFO: (GroundKey) removes all terms attached to a key

**Calls:**

- 0.3.692

term\_store\_op/4

**0.3.231 Predicate:**

destroy\_array/1

INFO: frees an array

### **0.3.232 Predicate:**

`destroy_engine/1`

INFO: `destroy_engine(E)` frees memory of engine E (an integer)

### **Is called from:**

- 0.3.147  
`clean_up_engines/1`
- 0.3.665  
`stop/1`
- 0.3.710  
`timed_call/4`

### **0.3.233 Predicate:**

`det_call/1`

INFO: calls a Goal and warns if it was not deterministic

### **Calls:**

- 0.3.29  
`(=)/2`
- 0.3.258  
`errmes/2`
- 0.3.263  
`fail/0`
- 0.3.276  
`find_at_most/4`

### **0.3.234 Predicate:**

`detect_ip_addr/1`

INFO: the ip address of current host, if detected, that of localhost if not

**Calls:**

- 0.3.759

vread/2

**0.3.235 Predicate:**

detect\_user/1

INFO: guesses the user from environment information

**Calls:**

- 0.3.744

unix\_getenv/2

**0.3.236 Predicate:**

dir/0

INFO: lists files under DOS

**Calls:**

- 0.3.677

system/1

**0.3.237 Predicate:**

dir2dirs/2

INFO: (Dir,Dirs): converts dir cmd output to list of sub directories of Dir

**Calls:**

- 0.3.239

dir2list/3

**0.3.238 Predicate:**

dir2files/2

INFO: (Dir,Files): converts dir cmd output to list of files (which are not dirs) contained in Dir

**Calls:**

- 0.3.239

dir2list/3

**0.3.239 Predicate:**

dir2list/3

INFO: (DirListerCmd,DirName,Files): converts OS specific DirLister output to list of files and/or directories

**Calls:**

- 0.3.29

(=)/2

- 0.3.472

namecat/4

- 0.3.513

pcollect/2

**Is called from:**

- 0.3.237

dir2dirs/2

- 0.3.238

dir2files/2

- 0.3.416

ls2list/2

**0.3.240 Predicate:**

(discontiguous)/1

INFO: states that clauses of a predicate can be in different places

**Calls:**

- 0.3.470

(multifile)/1

#### **0.3.241 Predicate:**

display/1

INFO: writes to terminal while ignoring operator definitions

#### **0.3.242 Predicate:**

drop\_at\_least/2

INFO: (N,Goal) drops at least N answers of Goal G

#### **Calls:**

- 0.3.29

(=)/2

- 0.3.635

skip\_when/2

#### **Is called from:**

- 0.3.60

all\_but\_at\_least/4

#### **0.3.243 Predicate:**

dyn2stat/1

INFO: dyn2stat(H): compiles at runtime a predicate with head H

#### **Calls:**

- 0.3.177

current\_db/1

- 0.3.244

dyn2stat/2

#### **0.3.244 Predicate:**

dyn2stat/2

INFO: dyn2stat(Db,H): compiles at a predicate from database Db with head H



**Calls:**

- 0.3.755

vget0/2

- 0.3.760

vset/2

**Is called from:**

- 0.3.243

dyn2stat/1

**0.3.245 Predicate:**

(dynamic)/1

INFO: states that a predicate can be updated

**Calls:**

- 0.3.777

x\_dynamic/1

**0.3.246 Predicate:**

dynbbgc/0

INFO: makes blackboard dynamic with gc on

**Calls:**

- 0.3.760

vset/2

**0.3.247 Predicate:**

dynco/1

INFO: yes/no: activates/desactivates dynamic recompilation

**Calls:**

- 0.3.27

(<)/2

- 0.3.29

(=)/2

- 0.3.204

db\_ratio/1

- 0.3.372

(is)/2

- 0.3.751

var/1

**Is called from:**

- 0.3.661

static\_prolog\_flag/2

**0.3.248 Predicate:**

ed/0

INFO: edits last compiled/consulted file with default editor and refreshes it in memory

**0.3.249 Predicate:**

edit/0

INFO: calls DOS editor edit on last compiled file

**0.3.250 Predicate:**

edit/2

INFO: edit(E,F) edits with editor E, file F

**Calls:**

- 0.3.364

include/1

- 0.3.419

make\_cmd/2

- 0.3.677

system/1

**0.3.251 Predicate:**

element\_of/2

INFO: (Engine,Answer: backtracks over the answers of a fluent (usually an engine)

**0.3.252 Predicate:**

emacs/0

INFO: calls emacs editor on last compiled file

**0.3.253 Predicate:**

end\_critical/0

INFO: ends serialized execution - exits critical region

**Calls:**

- 0.3.747

unlock\_thread\_guard/1

**Is called from:**

- 0.3.597

sdebug/1

**0.3.254 Predicate:**

end\_module/0

INFO: ends current module

Is called from:

- 0.3.255

end\_module/1

**0.3.255 Predicate:**

end\_module/1

INFO: ends module if current, signals error if not

Calls:

- 0.3.183

current\_module/1

- 0.3.254

end\_module/0

- 0.3.258

errmes/2

**0.3.256 Predicate:**

end\_of\_file/0

INFO: Prolog atom returned by read when at the end of a file

Calls:

- 0.3.333

halt/0

**0.3.257 Predicate:**

eq/2

INFO: unifies arg 1 and arg 2, like =

**0.3.258 Predicate:**

errmes/2

INFO: writes error message and fails

**Is called from:**

- 0.3.2  
`(##)/1`
- 0.3.99  
`bb_gc/0`
- 0.3.141  
`check_password/1`
- 0.3.172  
`cpopq/3`
- 0.3.233  
`det_call/1`
- 0.3.255  
`end_module/1`
- 0.3.285  
`flush_output/1`
- 0.3.312  
`get_bp_error/4`
- 0.3.315  
`get_code/2`
- 0.3.372  
`(is)/2`
- 0.3.497  
`number_codes/2`
- 0.3.540  
`put_char/2`
- 0.3.542

put\_code/2

- 0.3.607

set\_bp\_error/4

- 0.3.657

start\_rpc/3

- 0.3.719

to\_words/2

- 0.3.736

unix/1

- 0.3.769

write\_term\_to\_chars/3

- 0.3.770

write\_words/1

### **0.3.259 Predicate:**

exists\_file/1

INFO: true if file exists

### **Calls:**

- 0.3.600

see\_or\_fail/1

- 0.3.603

seen/0

### **Is called from:**

- 0.3.275

file\_size/2

**0.3.260 Predicate:**

exit/0

INFO: same as halt

**Calls:**

- 0.3.333

halt/0

**0.3.261 Predicate:**

exp/2

INFO: float function

**0.3.262 Predicate:**

expand\_term/2

INFO: expands a term according to DCG expansion rules

**0.3.263 Predicate:**

fail/0

INFO: always fails

**Is called from:**

- 0.3.46

(\+)/1

- 0.3.48

(\=)/2

- 0.3.69

apropos/1

- 0.3.92

atom/1

- 0.3.99

- bb\_gc/0
- 0.3.100
- bb\_gc0/0
- 0.3.128
- call\_ifdef/2
- 0.3.133
- catch/3
- 0.3.140
- char\_of/2
- 0.3.147
- clean\_up\_engines/1
- 0.3.184
- current\_op/3
- 0.3.197
- db\_clean/1
- 0.3.203
- db\_move/2
- 0.3.211
- db\_save/2
- 0.3.233
- det\_call/1
- 0.3.264
- false/0
- 0.3.291
- forall/1
- 0.3.292



- forall/2
- 0.3.293
- foreach/1
- 0.3.294
- foreach/2
- 0.3.338
- has\_threads/0
- 0.3.339
- hash\_clear/0
- 0.3.341
- hash\_clear/2
- 0.3.344
- hash\_gc/0
- 0.3.353
- hash\_save/2
- 0.3.365
- info/0
- 0.3.366
- info/1
- 0.3.395
- list\_engines/0
- 0.3.398
- listing/0
- 0.3.400
- listing/2
- 0.3.421

- make\_compileable/2
- 0.3.425
  - map\_clear/1
- 0.3.426
  - map\_gc/1
- 0.3.432
  - map\_show/1
- 0.3.449
  - mmap\_clear/1
- 0.3.450
  - mmap\_gc/1
- 0.3.459
  - mmap\_show/1
- 0.3.467
  - (module)/2
- 0.3.489
  - (not)/1
- 0.3.521
  - portray\_clause/1
- 0.3.524
  - pp\_term/1
- 0.3.534
  - prolog\_run/1
- 0.3.594
  - run\_server/6
- 0.3.606

- service\_loop/2
- 0.3.629
- show\_defaults/0
- 0.3.631
- show\_info/2
- 0.3.634
- skip\_until/2
- 0.3.635
- skip\_when/2
- 0.3.660
- stat2dyn/2
- 0.3.662
- statistics/0
- 0.3.668
- subsumes\_chk/2
- 0.3.691
- term\_of/2
- 0.3.710
- timed\_call/4
- 0.3.724
- toplevel/0
- 0.3.764
- while/2
- 0.3.778
- x\_gc/0
- 0.3.780
- x\_listing/0
- 0.3.781
- x\_listing/1
- 0.3.782
- x\_profile/0

**0.3.264 Predicate:**

false/0

INFO: always fails

**Calls:**

- 0.3.263

fail/0

**0.3.265 Predicate:**

fatal\_error/2

INFO: writes error message and aborts

**Is called from:**

- 0.3.56

addq/3

- 0.3.538

pushq/3

**0.3.266 Predicate:**

fcall/3

INFO: calls a list to list function: to be implemented

**0.3.267 Predicate:**

fclose/1

INFO: closes the C-stream specifying as an integer handle

**Calls:**

- 0.3.153

close\_stream/2

**Is called from:**

- 0.3.140

char\_of/2

- 0.3.271

file2chars/2

- 0.3.275

file\_size/2

- 0.3.741

unix\_cat/1

**0.3.268 Predicate:**

fcompile/1

INFO: compiles a \*.pl file to a \*.wam bytecode file

**0.3.269 Predicate:**

fflush/1

INFO: fflush(IntegerStreamNo) flushes a C-stream

**Is called from:**

- 0.3.285

flush\_output/1

**0.3.270 Predicate:**

fgetc/2

INFO: fgetc(IntegerStreamNo,CharCode) inputs a char code from a C stream

**Is called from:**

- 0.3.140

char\_of/2

- 0.3.271

file2chars/2

- 0.3.315

get\_code/2

- 0.3.741

unix\_cat/1

**0.3.271 Predicate:**

file2chars/2

INFO: reads a file to a list of ascii codes

**Calls:**

- 0.3.267

fclose/1

- 0.3.270

fgetc/2

- 0.3.288

fopen/3

**0.3.272 Predicate:**

file2sock/2

INFO: writes to a socket, from a file

**0.3.273 Predicate:**

file\_extension\_list/1

INFO: defines default file extensions for find\_file

**Is called from:**

- 0.3.277

find\_file/2

**0.3.274 Predicate:**

file\_search\_path/1

INFO: defines search path relative to BP\_PATH (home of BinProlog) and PROLOG\_PATH (home of user files)

**Is called from:**

- 0.3.277

find\_file/2

**0.3.275 Predicate:**

file\_size/2

INFO: returns the size of a file, in bytes

**Calls:**

- 0.3.29

(=)/2

- 0.3.259

exists\_file/1

- 0.3.267

fclose/1

- 0.3.288

fopen/3

- 0.3.299

fsize/2

**0.3.276 Predicate:**

find\_at\_most/4

INFO: (N,X,G,Xs) findall variant, computing at most N answers X of G

**Calls:**

- 0.3.680  
take\_at\_most/2

**Is called from:**

- 0.3.233  
det\_call/1

**0.3.277 Predicate:**

find\_file/2

INFO: finds a file name on search path

**Calls:**

- 0.3.92  
atom/1
- 0.3.273  
file\_extension\_list/1
- 0.3.274  
file\_search\_path/1
- 0.3.750  
user\_error/2

**Is called from:**

- 0.3.140  
char\_of/2
- 0.3.198  
db\_consult/2
- 0.3.499  
oconsult/1
- 0.3.605  
sentence\_of/3
- 0.3.691  
term\_of/2



### 0.3.278 Predicate:

find\_while/4

INFO: findall variant

Calls:

- 0.3.764

while/2

### 0.3.279 Predicate:

findall/3

INFO: findall(X,G,Xs) collects copies of all answers X of G to Xs. If less than half of the heap is free,

EXAMPLE(S):

```
?-findall(s(_A),(member(_A,[1,2,3]),_A > 1),_B).
```

```
_A = _x149171;
```

```
_B = [s(2),s(3)];
```

no

Calls:

- 0.3.280

findall/4

### 0.3.280 Predicate:

findall/4

INFO: findall(X,G,Xs,Ys) appends the list of answers X of G to Ys to obtain Xs

EXAMPLE(S):

```
?-findall(s(_A),(_A = 1 ; _A = 2),_B,[3,4]).
```

```
_A = _x149157;
```

```
_B = [s(1),s(2),3,4];
```

no

Calls:

- 0.3.675

synchronize\_on/2

**Is called from:**

- 0.3.279

findall/3

**0.3.281 Predicate:**

float/1

INFO: true if represented as a 64 bit float number (C-double)

EXAMPLE(S):

?-float(3.14).

yes

**Calls:**

- 0.3.36

(>=)/2

- 0.3.71

arg/3

- 0.3.300

functor/3

- 0.3.487

nonvar/1

**Is called from:**

- 0.3.495

number/1

- 0.3.728

trim\_term/4

**0.3.282 Predicate:**

float/2

INFO: float function

**Calls:**

- 0.3.372

(is)/2

**0.3.283 Predicate:**

floor/2

INFO: float to int function

EXAMPLE(S):

?-floor(1.3,\_A).

\_A = 1;

no

**Calls:**

- 0.3.370

integer/2

**0.3.284 Predicate:**

flush\_output/0

INFO: flushes current output stream

**0.3.285 Predicate:**

flush\_output/1

INFO: flushes a stream

**Calls:**

- 0.3.258

errmes/2

- 0.3.269

fflush/1

### 0.3.286 Predicate:

foldl/4

INFO: (Op,InitialValue,List,?Result) accumulates values iterating over List with binary Op

EXAMPLE(S):

```
?-foldl(+,0,[10,20,30],_A).  
_A = 60;
```

no

Is called from:

- 0.3.529

prod/2

- 0.3.669

sum/2

### 0.3.287 Predicate:

foldr/4

INFO: (Op,InitialValue,List,?Result) accumulates values iterating over List with binary Op

EXAMPLE(S):

```
?-foldr(+,0,[10,20,30],_A).  
_A = 60;
```

no

### 0.3.288 Predicate:

fopen/3

INFO: Prolog equivalent of C-function: opens a stream in a given mode and returns an integer handle to it

Calls:

- 0.3.506

open\_stream/4

**Is called from:**

- 0.3.140

char\_of/2

- 0.3.271

file2chars/2

- 0.3.275

file\_size/2

- 0.3.605

sentence\_of/3

- 0.3.741

unix\_cat/1

**0.3.289 Predicate:**

for/3

INFO: generates an integer in a range

EXAMPLE(S):

```
?-for(_A,1,3).
```

```
_A = 1;
```

```
_A = 2;
```

```
_A = 3;
```

```
no
```

**Is called from:**

- 0.3.72

argn/3

- 0.3.184

current\_op/3

- 0.3.209

db\_retractall/3

- 0.3.366

info/1

- 0.3.435

maps\_iterate/1

- 0.3.462

mmaps\_iterate/1

- 0.3.483

new\_thread\_guard/1

- 0.3.589

rpc\_test/1

- 0.3.710

timed\_call/4

- 0.3.739

unix\_argv/1

- 0.3.741

unix\_cat/1

### **0.3.290 Predicate:**

for\_all/2

INFO: foreach(A,B) fails for all cases when A succeeds and B fails

### **0.3.291 Predicate:**

forall/1

INFO: forall(G) backtracks over all answers to G and succeeds

### **Calls:**

- 0.3.263

fail/0

**0.3.292 Predicate:**

`forall/2`

INFO: `forall(G,D)` executes `D` once for each answer of generator `G`

**Calls:**

- 0.3.263

`fail/0`

- 0.3.501

`once/1`

**0.3.293 Predicate:**

`foreach/1`

INFO: `foreach(G)` backtracks over all answers to `G` and succeeds

**Calls:**

- 0.3.263

`fail/0`

**0.3.294 Predicate:**

`foreach/2`

INFO: `foreach(G,D)` executes `D` once for each answer of generator `G`

**Calls:**

- 0.3.263

`fail/0`

- 0.3.501

`once/1`

**Is called from:**

- 0.3.86  
assert\_from\_chars/2
- 0.3.347  
hash\_load/1
- 0.3.421  
make\_compileable/2
- 0.3.433  
maps\_clean/0
- 0.3.434  
maps\_gc/0
- 0.3.436  
maps\_show/0
- 0.3.460  
mmaps\_clean/0
- 0.3.461  
mmaps\_gc/0
- 0.3.463  
mmaps\_show/0
- 0.3.649  
spawn/3
- 0.3.776  
x\_consult/1

**0.3.295 Predicate:**

`fputc/2`

INFO: `fputc(IntegerStreamNo,CharCode)` outputs a char code to a C stream



**Is called from:**

- 0.3.542

put\_code/2

**0.3.296 Predicate:**

free\_term/1

INFO: (Handle): frees external term given as a Handle

**Calls:**

- 0.3.692

term\_store\_op/4

**0.3.297 Predicate:**

free\_thread\_guard/1

INFO: gives back to pool thread guard in arg 1

**Calls:**

- 0.3.32

(=<)/2

- 0.3.36

(>=)/2

- 0.3.674

synchronize/2

- 0.3.675

synchronize\_on/2

**0.3.298 Predicate:**

from\_engine/1

INFO: (T) tries to take a term T from the message box of this engine and sets the message box empty

**Calls:**

- 0.3.29  
    (=)/2
- 0.3.104  
    bb\_rm/2
- 0.3.106  
    bb\_val/3
- 0.3.698  
    this\_engine/1

**0.3.299 Predicate:**

fsize/2

INFO: returns the size of the file associated to a C stream, in bytes

**Is called from:**

- 0.3.275  
    file\_size/2
- 0.3.741  
    unix\_cat/1

**0.3.300 Predicate:**

functor/3

INFO: builds or decomposes a coumpound term

EXAMPLE(S):

```
?-functor(f(a,b),_A,_B).
```

```
_A = f;
```

```
_B = 2;
```

no

```
?-functor(_A,f,3).
```

```
_A = f(_x149745,_x149746,_x149747);
```

no

```
?-functor(f(a),f,1).
```

yes

**Is called from:**

- 0.3.70  
apropos/2
- 0.3.72  
argn/3
- 0.3.96  
bagof/3
- 0.3.116  
bp\_info/2
- 0.3.132  
callable/1
- 0.3.186  
current\_predicate/1
- 0.3.187  
current\_predicate/2
- 0.3.190  
db\_abolish/2
- 0.3.199  
db\_head/2
- 0.3.202  
db\_listing/2
- 0.3.203  
db\_move/2
- 0.3.209  
db\_retractall/3
- 0.3.281

float/1

- 0.3.353

hash\_save/2

- 0.3.400

listing/2

- 0.3.488

(nospy)/1

- 0.3.498

numbervars/3

- 0.3.611

set\_default/1

- 0.3.650

(spy)/1

- 0.3.772

x\_abolish/1

- 0.3.777

x\_dynamic/1

- 0.3.781

x\_listing/1

### **0.3.301 Predicate:**

garbage\_collect/0

INFO: performs heap gc now

### **0.3.302 Predicate:**

gc/0

INFO: enables heap gc

### 0.3.303 Predicate:

`gc_call/1`

INFO: G: executes G and ensures that no more space is consumed than the total size of the terms bound to i

#### Calls:

- 0.3.442

`member/2`

### 0.3.304 Predicate:

`gc_status/1`

INFO: shows if heap gc is enabled or not

#### Calls:

- 0.3.755

`vget0/2`

### 0.3.305 Predicate:

`generic_write/1`

INFO: overridable write/1, style (writeq, write, display) given with write\_style/1 assumption

### 0.3.306 Predicate:

`gensym/2`

INFO: generates a new name based on arg 1

#### Calls:

- 0.3.307

`gensym_no/2`

- 0.3.672

`symcat/3`

**Is called from:**

- 0.3.343

hash\_find\_unique/3

- 0.3.429

map\_new/1

- 0.3.453

mmap\_new/1

**0.3.307 Predicate:**

gensym\_no/2

INFO: generates a new number based on arg 1

**Calls:**

- 0.3.29

(=)/2

- 0.3.372

(is)/2

**Is called from:**

- 0.3.306

gensym/2

**0.3.308 Predicate:**

get/1

INFO: inputs the next char code after skiping over white space

**Calls:**

- 0.3.27

(<)/2

- 0.3.29

(=)/2

- 0.3.35

(>)/2

- 0.3.314

get\_code/1

- 0.3.574

repeat/0

### **0.3.309 Predicate:**

get/2

INFO: get(E,A) returns a new answer A=the(...) from engine E or returns no if no (more) answers exist

### **Calls:**

- 0.3.29

(=)/2

- 0.3.80

ask\_engine/2

### **0.3.310 Predicate:**

get0/1

INFO: reads a char as an ascii code

### **Is called from:**

- 0.3.314

get\_code/1

### **0.3.311 Predicate:**

get\_all\_terms/2

INFO: (GroundKey,Ts) collects to alist all terms attached to a key

**Calls:**

- 0.3.151

close\_iterator/1

- 0.3.477

new\_iterator/2

**0.3.312 Predicate:**

get\_bp\_error/4

INFO: (Id,Mes,Arg1,Arg2): gets error state from emulator

**Calls:**

- 0.3.258

errmes/2

- 0.3.755

vget0/2

**Is called from:**

- 0.3.56

addq/3

- 0.3.172

cpopq/3

- 0.3.538

pushq/3

**0.3.313 Predicate:**

get\_char/2

INFO: (Stream,CharAsOneLetterConstant): inputs a char from a stream -ISO Prolog



**Calls:**

- 0.3.29

(=)/2

- 0.3.31

(=:)/2

- 0.3.315

get\_code/2

- 0.3.471

name/2

**0.3.314 Predicate:**

get\_code/1

INFO: ISO char code reader

**Calls:**

- 0.3.310

get0/1

**Is called from:**

- 0.3.308

get/1

- 0.3.513

pcollect/2

- 0.3.560

read\_chars/1

**0.3.315 Predicate:**

get\_code/2

INFO: inputs a char code from a stream - ISO

**Calls:**

- 0.3.258  
`errmes/2`
- 0.3.270  
`fgetc/2`

**Is called from:**

- 0.3.313  
`get_char/2`

**0.3.316 Predicate:**

`get_critical/2`

INFO: (Guard,Data): accesses mutex Guard protected Data on blackboard

**Calls:**

- 0.3.597  
`sdebug/1`
- 0.3.674  
`synchronize/2`
- 0.3.676  
`synchronize_on/3`

**0.3.317 Predicate:**

`get_deep_cut/2`

INFO: gets a choice point address, used with 1 arg only

**0.3.318 Predicate:**

`get_engine_id/2`

INFO: (+Engine,-Id) gets the unique id associated to an engine at creation time

**Calls:**

- 0.3.29

(=)/2

- 0.3.319

get\_engine\_prop/3

**Is called from:**

- 0.3.114

bg/7

- 0.3.180

current\_engine\_id/1

**0.3.319 Predicate:**

get\_engine\_prop/3

INFO: args: Engine,PropertyNo,Val

**Is called from:**

- 0.3.147

clean\_up\_engines/1

- 0.3.318

get\_engine\_id/2

- 0.3.320

get\_engine\_thread/2

- 0.3.395

list\_engines/0

**0.3.320 Predicate:**

get\_engine\_thread/2

INFO: gets from an Engine the thread it is running on

**Calls:**

- 0.3.29  
    (=)/2
- 0.3.319  
    get\_engine\_prop/3

**Is called from:**

- 0.3.181  
    current\_engine\_thread/1
- 0.3.395  
    list\_engines/0

**0.3.321 Predicate:**

get\_lineno/1

INFO: gets line number counter in current file

**Calls:**

- 0.3.756  
    vget\_int/2

**Is called from:**

- 0.3.364  
    include/1

**0.3.322 Predicate:**

get\_load\_method/1

INFO: gets the current load method by name

**Calls:**

- 0.3.403  
    load\_method/2
- 0.3.755  
    vget0/2

**0.3.323 Predicate:**

`get_neck_cut/1`

INFO: gets the choice point as an integer

**0.3.324 Predicate:**

`get_next_term/2`

INFO: (Iterator,Term) returns the next term attached to an iterator, fails if no more left

**Calls:**

- 0.3.692

`term_store_op/4`

**0.3.325 Predicate:**

`get_password/1`

INFO: gets default password for user

**Calls:**

- 0.3.628

`show_default/1`

**0.3.326 Predicate:**

`get_term/2`

INFO: (Iterator,Term): backtracks over terms associated to a key

**0.3.327 Predicate:**

`global_get/3`

INFO: (A,B,X): retrieves X associated to ground keys A,B

**0.3.328 Predicate:**

`global_rm/2`

INFO: (A,B): removes value associated to ground keys A,B

**0.3.329 Predicate:**

`global_set/3`

INFO: (A,B,X): associates X to ground keys A,B

**Calls:**

- 0.3.487

`nonvar/1`

**0.3.330 Predicate:**

`greater/2`

INFO: arithmetic comparison

**Is called from:**

- 0.3.35

`(>)/2`

**0.3.331 Predicate:**

`greater_eq/2`

INFO: arithmetic comparison

**Is called from:**

- 0.3.36

`(>=)/2`

**0.3.332 Predicate:**

`ground/1`

INFO: true if arg has no free variables

EXAMPLE(S):

`?-ground(f(a,b)).`

`yes`

**Calls:**

- 0.3.221  
deep\_hash/4

**Is called from:**

- 0.3.489  
(not)/1

**0.3.333 Predicate:**

halt/0

INFO: stops BinProlog

**Calls:**

- 0.3.334  
halt/1

**Is called from:**

- 0.3.256  
end\_of\_file/0
- 0.3.260  
exit/0
- 0.3.555  
quit/0

**0.3.334 Predicate:**

halt/1

INFO: stops Prolog with given return code when used in main thread- or halts current thread

**Is called from:**

- 0.3.333  
halt/0
- 0.3.664  
stop/0

**0.3.335 Predicate:**

handle\_service/2

INFO: handles a Jinni service S with password P - always succeeds

**0.3.336 Predicate:**

has\_info/1

INFO: checks/generates predicates Pred/Arity for which info is available

**Calls:**

- 0.3.49

(\==)/2

**Is called from:**

- 0.3.366

info/1

**0.3.337 Predicate:**

has\_terms/1

INFO: (GroundKey) succeeds if at least one term is attached to GroundKey

**Calls:**

- 0.3.29

(=)/2

- 0.3.692

term\_store\_op/4

**0.3.338 Predicate:**

has\_threads/0

INFO: succeeds if threads available on this platform



**Calls:**

- 0.3.35

(>)/2

- 0.3.263

fail/0

- 0.3.759

vread/2

**Is called from:**

- 0.3.114

bg/7

- 0.3.675

synchronize\_on/2

- 0.3.710

timed\_call/4

**0.3.339 Predicate:**

hash\_clear/0

INFO: removes all terms from all hash keys

**Calls:**

- 0.3.263

fail/0

- 0.3.449

mmap\_clear/1

**Is called from:**

- 0.3.347

hash\_load/1

#### **0.3.340 Predicate:**

hash\_clear/1

INFO: (GroundKey) removes all terms attached to a key

#### **Calls:**

- 0.3.2  
(##)/1

#### **0.3.341 Predicate:**

hash\_clear/2

INFO: (GroundKey,Term) removes all matching terms attached to a key

#### **Calls:**

- 0.3.263  
fail/0
- 0.3.456  
mmap\_rm/3

#### **0.3.342 Predicate:**

hash\_compile/0

INFO: compiles the hashed map to a predicate benefiting from 1-arg indexing

#### **Calls:**

- 0.3.176  
ctime/1
- 0.3.372  
(is)/2
- 0.3.735  
ttyprint/1

### 0.3.343 Predicate:

hash\_find\_unique/3

INFO: like findall(X,G,Xs) but uses hashing on ground term X to collect unique answers

#### Calls:

- 0.3.306  
gensym/2

### 0.3.344 Predicate:

hash\_gc/0

INFO: frees space used by hash keys and values

#### Calls:

- 0.3.263  
fail/0
- 0.3.450  
mmap\_gc/1

### 0.3.345 Predicate:

hash\_get/2

INFO: (GroundKey,Term) retrieves in constant time a term attached to a ground key

#### Calls:

- 0.3.346  
hash\_key/1
- 0.3.751  
var/1

#### Is called from:

- 0.3.780  
x\_listing/0

### 0.3.346 Predicate:

hash\_key/1

INFO: (IntKey) backtrack over hash keys

#### Calls:

- ??  
\$hx/3
- 0.3.376  
is\_compiled/1
- 0.3.501  
once/1

#### Is called from:

- 0.3.345  
hash\_get/2
- 0.3.353  
hash\_save/2

### 0.3.347 Predicate:

hash\_load/1

INFO: (File) loads the hashed map to a database

#### Calls:

- 0.3.71  
arg/3
- 0.3.294  
foreach/2
- 0.3.339  
hash\_clear/0
- 0.3.691  
term\_of/2

### **0.3.348 Predicate:**

hash\_push/2

INFO: (GroundKey,Term): attaches a term to a ground key in constant time as a the first element

#### **Calls:**

- 0.3.454

mmap\_push/3

### **0.3.349 Predicate:**

hash\_put/2

INFO: (GroundKey,Term): attaches a term to a ground key in constant time as the last element

#### **Calls:**

- 0.3.2

(##)/1

### **0.3.350 Predicate:**

hash\_rm/2

INFO: (GroundKey) removes a term attached to a key and returns it - backtracks

#### **Calls:**

- 0.3.2

(##)/1

### **0.3.351 Predicate:**

hash\_rm\_one/2

INFO: (GroundKey) removes a term attached to a key and returns it

#### **Calls:**

- 0.3.2

(##)/1

### **0.3.352 Predicate:**

hash\_save/1

INFO: (File) saves the hashed map to a database ready for 1-arg indexing if compiled

#### **Calls:**

- 0.3.353

hash\_save/2

### **0.3.353 Predicate:**

hash\_save/2

INFO: (File,PredName) saves the hashed map to a database in predicate PredName ready for 1-arg indexing i

#### **Calls:**

- 0.3.71

arg/3

- 0.3.263

fail/0

- 0.3.300

functor/3

- 0.3.346

hash\_key/1

- 0.3.389

keygroup/3

- 0.3.523

pp\_clause/1

- 0.3.682

tell/1

- 0.3.722

told/0

Is called from:

- 0.3.352

hash\_save/1

**0.3.354 Predicate:**

hash\_trace/2

INFO: tracer for hash maps

Calls:

- 0.3.29

(=)/2

- 0.3.376

is\_compiled/1

**0.3.355 Predicate:**

help/0

INFO: generates file help.txt with info and examples

Calls:

- 0.3.484

nl/0

**0.3.356 Predicate:**

help/1

INFO: same as apropos/1

EXAMPLE(S):

?-help(assert).

use info/1 to get a description of a predicate

assert/1-[built\_in,adds a clause]

assert\_from\_chars/1-[built\_in,asserts a program from clauses in list of chars]

assert\_from\_chars/2-[built\_in,(Db,Cs) asserts to database Db, a set of clauses parsed from list of char co

asserta/1-[built\_in,adds a clause to be first in a predicate definition]

asserted/1-[built\_in,runs a predicated if asserted]

assertz/1-[built\_in,adds a clause to be last in a predicate definition]

db\_assert/2-[built\_in,does assert/1 arg 2 into database given as arg 1]

db\_asserta/2-[built\_in,does asserta/1 arg 2 into database given as arg 1]

```

db_asserted/2-[built_in,runs predicate arg 2 if asserted in database arg 1]
db_assertz/2-[built_in,does assertz/1 arg 2 into database given as arg 1]
get_asserted/2-[built_in]
is_asserted/1-[built_in,checks if currently asserted]
prolog:assert_it/2-[compiled]
prolog:db_is_asserted/2-[compiled]
prolog:is_asserted_clause/1-[compiled]
prolog:x_assert/2-[compiled]
prolog:x_assert_op/3-[compiled]
x_asserta/1-[built_in,db hook, adds a clause to be first in a predicate definition]
x_assertz/1-[built_in,db hook, adds a clause to be last in a predicate definition]

yes

```

#### Calls:

- 0.3.69

apropos/1

#### 0.3.357 Predicate:

hide\_default/1

INFO: makes unavailable a default value

#### Calls:

- 0.3.102

bb\_let/3

#### Is called from:

- 0.3.619

set\_password/1

#### 0.3.358 Predicate:

hkey/2

INFO: computes hash code on atomic argument; fails on variables and compound terms

EXAMPLE(S):

```

?-hkey(t(a,b),_A).
_A = 236945626;

```

no

```

?-hkey(t(a,c),_A).

```



`_A = 236945625;`

`no`

**Calls:**

- 0.3.221  
    `deep_hash/4`

**0.3.359 Predicate:**

`host2ip/2`

INFO: converts a host name to an IP address

**0.3.360 Predicate:**

`hostname/1`

INFO: the name of current host, if detected, localhost if not

**Calls:**

- 0.3.759  
    `vread/2`

**0.3.361 Predicate:**

`hypot/3`

INFO: float function

**0.3.362 Predicate:**

`if_any/3`

INFO: (Cond,Then,Else): executes Cond; each time when Cond succeeds it also executes Then; if Cond never s

**Calls:**

- 0.3.29  
    `(=)/2`
- 0.3.71  
    `arg/3`
- 0.3.139  
    `change_arg/3`

### **0.3.363 Predicate:**

in/1

INFO: waits to remove a term from Linda blackboard

### **Calls:**

- 0.3.408

local\_in/1

### **0.3.364 Predicate:**

include/1

INFO: includes/loads a file with current load method, unless it has already been included by the same method

### **Calls:**

- 0.3.121

call/2

- 0.3.220

debugmes/1

- 0.3.321

get\_lineno/1

- 0.3.403

load\_method/2

- 0.3.615

set\_lineno/1

- 0.3.755

vget0/2

### **Is called from:**

- 0.3.159

co/0

- 0.3.250

edit/2

### **0.3.365 Predicate:**

`info/0`

INFO: generates info on predicates with examples

#### **Calls:**

- 0.3.263

`fail/0`

- 0.3.366

`info/1`

### **0.3.366 Predicate:**

`info/1`

INFO: generates info and examples of use for predicate Pred/Arity

#### **Calls:**

- 0.3.29

`(=)/2`

- 0.3.263

`fail/0`

- 0.3.289

`for/3`

- 0.3.336

`has_info/1`

- 0.3.487

`nonvar/1`

- 0.3.766

`write/1`

**Is called from:**

- 0.3.365

info/0

**0.3.367 Predicate:**

init\_gensym/1

INFO: resets gensym for names based on arg 1

**Calls:**

- 0.3.102

bb\_let/3

**Is called from:**

- 0.3.433

maps\_clean/0

- 0.3.460

mmaps\_clean/0

**0.3.368 Predicate:**

instance\_of/2

INFO: (Handle,Term): creates an internal instance of an external term given as a Handle

**Calls:**

- 0.3.692

term\_store\_op/4

**0.3.369 Predicate:**

integer/1

INFO: true if an integer

**Is called from:**

- 0.3.92  
atom/1
- 0.3.204  
db\_ratio/1
- 0.3.495  
number/1
- 0.3.552  
quiet/1
- 0.3.615  
set\_lineno/1
- 0.3.620  
set\_port/1
- 0.3.623  
set\_this\_port/1
- 0.3.679  
tab/1

**0.3.370 Predicate:**

integer/2

INFO: float to int cast

**Is called from:**

- 0.3.138  
ceiling/2
- 0.3.283  
floor/2
- 0.3.729  
truncate/2

### 0.3.371 Predicate:

interactive/1

INFO: toggles interactive query answering/tracing with arg 1 = yes or no

#### Calls:

- 0.3.29

(=)/2

- 0.3.380

is\_interactive/0

- 0.3.487

nonvar/1

- 0.3.751

var/1

### 0.3.372 Predicate:

(is)/2

INFO: calls the function evaluator, mostly for arithmetics

EXAMPLE(S):

```
?-_A is 3+4*2.  
_A = 11;
```

no

#### Calls:

- 0.3.29

(=)/2

- 0.3.258

errmes/2

**Is called from:**

- 0.3.53  
abs/2
- 0.3.54  
abstime/1
- 0.3.100  
bb\_gc0/0
- 0.3.116  
bp\_info/2
- 0.3.138  
ceiling/2
- 0.3.247  
dynco/1
- 0.3.282  
float/2
- 0.3.307  
gensym\_no/2
- 0.3.342  
hash\_compile/0
- 0.3.493  
nth\_answer/2
- 0.3.498  
numbervars/3
- 0.3.582  
round/2
- 0.3.589

rpc\_test/1

- 0.3.712

to\_lower\_char/2

- 0.3.716

to\_upper\_char/2

- 0.3.728

trim\_term/4

- 0.3.739

unix\_argv/1

- 0.3.778

x\_gc/0

- 0.3.782

x\_profile/0

- 0.3.787

x\_traced\_call/1

### **0.3.373 Predicate:**

is\_an/1

INFO: true if an alphanumerical char code

### **0.3.374 Predicate:**

is\_asserted/1

INFO: checks if currently asserted

### **Calls:**

- 0.3.177

current\_db/1



**Is called from:**

- 0.3.378

is\_dynamic/1

- 0.3.400

listing/2

**0.3.375 Predicate:**

is\_builtin/1

INFO: recognizes a predicate head as a builtin

EXAMPLE(S):

```
?-is_builtin(var(_A)).
```

```
_A = _x148944;
```

```
no
```

**Calls:**

- 0.3.487

nonvar/1

**Is called from:**

- 0.3.650

(spy)/1

- 0.3.651

spying/1

**0.3.376 Predicate:**

is\_compiled/1

INFO: true if head of a compiled predicate

**Is called from:**

- 0.3.2  
`(##)/1`
- 0.3.128  
`call_ifdef/2`
- 0.3.132  
`callable/1`
- 0.3.346  
`hash_key/1`
- 0.3.354  
`hash_trace/2`
- 0.3.400  
`listing/2`
- 0.3.786  
`x_trace/2`

**0.3.377 Predicate:**

`is_discontiguous/1`

INFO: checks if a predicate has been declared as discontiguous

**0.3.378 Predicate:**

`is_dynamic/1`

INFO: checks if dynamic

**Calls:**

- 0.3.374  
`is_asserted/1`
- 0.3.779  
`x_is_dynamic/1`

**Is called from:**

- 0.3.132

callable/1

**0.3.379 Predicate:**

is\_engine/1

INFO: recognizes and integer as an engine handle

**Calls:**

- 0.3.396

list\_engines/1

- 0.3.442

member/2

**0.3.380 Predicate:**

is\_interactive/0

INFO: checks if toplevel is interactive - use interactive/1 with yes/no to set it the way you want it

**Calls:**

- 0.3.184

current\_op/3

**Is called from:**

- 0.3.371

interactive/1

**0.3.381 Predicate:**

is\_maj/1

INFO: true if is an upper case char code

**0.3.382 Predicate:**

is\_min/1

INFO: true if a lower case char code

### **0.3.383 Predicate:**

`is_module/1`

INFO: recognizes/generates a module name

#### **Calls:**

- 0.3.106  
`bb_val/3`
- 0.3.487  
`nonvar/1`

#### **Is called from:**

- 0.3.468  
`modules/1`

### **0.3.384 Predicate:**

`is_num/1`

INFO: true if a digit char code

### **0.3.385 Predicate:**

`is_prolog/1`

INFO: recognizes binprolog - useful for portability

#### **Calls:**

- 0.3.29  
`(=)/2`
- 0.3.106  
`bb_val/3`

#### **Is called from:**

- 0.3.118  
`bp_only/2`
- 0.3.595  
`scompile/1`
- 0.3.661  
`static_prolog_flag/2`

**0.3.386 Predicate:**

is\_public/1

INFO: checks predicate head if globally visible

**0.3.387 Predicate:**

is\_spec/1

INFO: true if a spacial character code

**0.3.388 Predicate:**

is\_terminator/1

INFO: true if a terminator character code

**0.3.389 Predicate:**

keygroup/3

INFO: sorts while grouping similar keys

EXAMPLE(S):

```
?-keygroup([3-a,1-a,2-b,1-c,2-d],_A,_B).
```

```
_A = 1;
```

```
_B = [a,c];
```

```
_A = 2;
```

```
_B = [b,d];
```

```
_A = 3;
```

```
_B = [a];
```

no

**Calls:**

- 0.3.390

keysort/2

**Is called from:**

- 0.3.353

hash\_save/2

### 0.3.390 Predicate:

keysort/2

INFO: sorts while putting similar keys one after the other in a list

EXAMPLE(S):

```
?-keysort([3-a,1-a,2-b,1-c,2-d],_A).  
_A = [1-a,1-c,2-b,2-d,3-a];
```

no

Is called from:

- 0.3.96

bagof/3

- 0.3.389

keygroup/3

### 0.3.391 Predicate:

length/2

INFO: generates/mesures length of a list

Calls:

- 0.3.751

var/1

Is called from:

- 0.3.446

merge\_sort/3

### 0.3.392 Predicate:

less/2

INFO: arithmetic comparison

Is called from:

- 0.3.27

(<)/2

**0.3.393 Predicate:**

less\_eq/2

INFO: arithmetic comparison

**Is called from:**

- 0.3.32
- (=<)/2

**0.3.394 Predicate:**

line\_of/2

INFO: (File,Line) reads a file to lines ending with eol - on backtracking

**Calls:**

- 0.3.29
- (=)/2
- 0.3.605
- sentence\_of/3

**Is called from:**

- 0.3.720
- token\_of/2

**0.3.395 Predicate:**

list\_engines/0

INFO: prints out the list of active engines

**Calls:**

- 0.3.29
- (=)/2
- 0.3.263
- fail/0

- 0.3.319

get\_engine\_prop/3

- 0.3.320

get\_engine\_thread/2

- 0.3.396

list\_engines/1

- 0.3.442

member/2

- 0.3.484

nl/0

- 0.3.766

write/1

#### **0.3.396 Predicate:**

list\_engines/1

INFO: lists available engine handles

#### **Is called from:**

- 0.3.147

clean\_up\_engines/1

- 0.3.379

is\_engine/1

- 0.3.395

list\_engines/0

#### **0.3.397 Predicate:**

listify/2

INFO: (T,Cs): transforms T, unless it is already such, to list of chars



**Calls:**

- 0.3.94

atom\_codes/2

**0.3.398 Predicate:**

listing/0

INFO: lists current database

**Calls:**

- 0.3.263

fail/0

- 0.3.400

listing/2

- 0.3.780

x\_listing/0

**0.3.399 Predicate:**

listing/1

INFO: lists given predicate if in current database

**Calls:**

- 0.3.400

listing/2

- 0.3.484

n1/0

- 0.3.781

x\_listing/1

**0.3.400 Predicate:**

listing/2

INFO: lists predicate F of arity N if in current database

**Calls:**

- 0.3.263  
fail/0
- 0.3.300  
functor/3
- 0.3.374  
is\_asserted/1
- 0.3.376  
is\_compiled/1
- 0.3.484  
nl/0
- 0.3.766  
write/1

**Is called from:**

- 0.3.398  
listing/0
- 0.3.399  
listing/1

**0.3.401 Predicate:**

load/1

INFO: clean loads from a bytecode \*.wam file

**Calls:**

- 0.3.52  
abort/0

**0.3.402 Predicate:**

load\_engine/3

INFO: load\_engine(E,Goal,Answer) prepares engine E to execute Goal/Answer

**Is called from:**

- 0.3.114

bg/7

- 0.3.505

open\_engine/3

### **0.3.403 Predicate:**

load\_method/2

INFO: args: Number, Name

EXAMPLE(S):

?-load\_method(\_A,\_B).

\_A = 1;

\_B = mcompile;

\_A = 2;

\_B = scompile;

\_A = 3;

\_B = oconsult;

\_A = 4;

\_B = dconsult;

\_A = 5;

\_B = sconsult;

\_A = 6;

\_B = load;

no

**Is called from:**

- 0.3.322

get\_load\_method/1

- 0.3.364

include/1

- 0.3.616

set\_load\_method/1

**0.3.404 Predicate:**

local\_all/2

INFO: local\_all(X,Xs) collects all facts matching X on the blackboard

**Calls:**

- 0.3.405

local\_all/3

**Is called from:**

- 0.3.57

all/2

**0.3.405 Predicate:**

local\_all/3

INFO: local\_all(X,G,Xs) collects facts X such that G on the blackboard

**Calls:**

- 0.3.675

synchronize\_on/2

**Is called from:**

- 0.3.58

all/3

- 0.3.404

local\_all/2

**0.3.406 Predicate:**

local\_cin/1

INFO: removes a term if available on the local blackboard

**Calls:**

- 0.3.675

synchronize\_on/2

**Is called from:**

- 0.3.142  
cin/1
- 0.3.408  
local\_in/1
- 0.3.710  
timed\_call/4

**0.3.407 Predicate:**

local\_cout/1

INFO: puts a term on local blackbord unless already there

**Calls:**

- 0.3.409  
local\_out/1
- 0.3.410  
local\_rd/1

**Is called from:**

- 0.3.171  
cout/1

**0.3.408 Predicate:**

local\_in/1

INFO: waits for a term produced by a matching local\_out/1

**Calls:**

- 0.3.181  
current\_engine\_thread/1
- 0.3.406  
local\_cin/1
- 0.3.675  
synchronize\_on/2
- 0.3.706  
thread\_suspend/1

**Is called from:**

- 0.3.363  
in/1

**0.3.409 Predicate:**

local\_out/1

INFO: produces a term and possibly wakes up the thread at a matching local\_in/1

**Calls:**

- 0.3.675  
synchronize\_on/2
- 0.3.705  
thread\_resume/1

**Is called from:**

- 0.3.407  
local\_cout/1
- 0.3.509  
out/1

**0.3.410 Predicate:**

local\_rd/1

INFO: tests if a term is available on the local blackboard

**Calls:**

- 0.3.675  
synchronize\_on/2

**Is called from:**

- 0.3.407  
local\_cout/1
- 0.3.411  
local\_when/1
- 0.3.558  
rd/1

### **0.3.411 Predicate:**

`local_when/1`

INFO: waits until a term is available on the local blackboard

#### **Calls:**

- 0.3.181  
`current_engine_thread/1`
- 0.3.410  
`local_rd/1`
- 0.3.675  
`synchronize_on/2`
- 0.3.706  
`thread_suspend/1`

### **0.3.412 Predicate:**

`lock_thread_guard/1`

INFO: locks thread guard created with `new_thread_guard`

#### **Is called from:**

- 0.3.109  
`begin_critical/0`
- 0.3.676  
`synchronize_on/3`

### **0.3.413 Predicate:**

`log/2`

INFO: float function

#### 0.3.414 Predicate:

log/3

INFO: returns log in base arg 1 of arg 2, a float

EXAMPLE(S):

```
?-log(2,8,_A).  
_A = 3;
```

no

#### 0.3.415 Predicate:

ls/0

INFO: list files under Unix

Calls:

- 0.3.677

system/1

#### 0.3.416 Predicate:

ls2list/2

INFO: (Dir,Files): converts ls cmd output to list of files and dirs

Calls:

- 0.3.239

dir2list/3

#### 0.3.417 Predicate:

lval/3

INFO: backtrackable: lval(K1,K2,V) associates V to keys K1 and K2

EXAMPLE(S):

```
?-lval(a,b,f(_A)).  
_A = _x148841;
```

no



**0.3.418 Predicate:**

`make_array/2`

INFO: creates an array

**0.3.419 Predicate:**

`make_cmd/2`

INFO: concatenates a list of strings and atomic elements into an atom

**Calls:**

- 0.3.94

`atom_codes/2`

- 0.3.420

`make_cmd0/2`

**Is called from:**

- 0.3.250

`edit/2`

- 0.3.422

`make_spaced_cmd/2`

**0.3.420 Predicate:**

`make_cmd0/2`

INFO: concatenates a list of strings and atomic elements into a string

**Is called from:**

- 0.3.419

`make_cmd/2`

**0.3.421 Predicate:**

`make_compileable/2`

INFO: `make_compileable(Files,File)` rewrites `Files` as a canonical `File` with all predicates contiguous and no

**Calls:**

- 0.3.29  
    (=)/2
- 0.3.95  
    atomic/1
- 0.3.177  
    current\_db/1
- 0.3.197  
    db\_clean/1
- 0.3.263  
    fail/0
- 0.3.294  
    foreach/2
- 0.3.442  
    member/2
- 0.3.682  
    tell/1
- 0.3.685  
    telling/1
- 0.3.722  
    told/0

**0.3.422 Predicate:**

make\_spaced\_cmd/2

INFO: concatenates a list of elements with inserted space separators into an atom

**Calls:**

- 0.3.419  
    make\_cmd/2

#### 0.3.423 Predicate:

map/2

INFO: maps a predicate with 1 arg to a list

EXAMPLE(S):

```
?-map(println,[10,20,30]).
```

10

20

30

yes

#### 0.3.424 Predicate:

map/3

INFO: maps a predicate with 2 args to a list

EXAMPLE(S):

```
?-map(+1,[10,20],_A).
```

\_A = [11,21];

no

#### 0.3.425 Predicate:

map\_clear/1

INFO: (D): empties and cleans up D

Calls:

- 0.3.263

fail/0

Is called from:

- 0.3.772

x\_abolish/1

#### 0.3.426 Predicate:

map\_gc/1

INFO: (D): frees unused memory in D

**Calls:**

- 0.3.136  
cdelq/4
- 0.3.263  
fail/0

**0.3.427 Predicate:**

map\_get/3

INFO: (D,K,V): gets V, given K in map D, backtracks over K if K unbound

**Calls:**

- 0.3.106  
bb\_val/3
- 0.3.428  
map\_key/2

**Is called from:**

- 0.3.432  
map\_show/1
- 0.3.772  
x\_abolish/1
- 0.3.782  
x\_profile/0
- 0.3.787  
x\_traced\_call/1

**0.3.428 Predicate:**

map\_key/2

INFO: (D,K): succeeds if K is known, otherwise finds V backtracks over each key K in D

**Calls:**

- 0.3.157  
cmembq/3
- 0.3.487  
nonvar/1

**Is called from:**

- 0.3.427  
map\_get/3
- 0.3.431  
map\_rm/2

**0.3.429 Predicate:**

map\_new/1

INFO: (D): returns a new map handle D

**Calls:**

- 0.3.306  
gensym/2

**0.3.430 Predicate:**

map\_put/3

INFO: (D,K,V): adds K,V to map D

**Calls:**

- 0.3.56  
addq/3
- 0.3.98  
bb\_def/3
- 0.3.105  
bb\_set/3

**Is called from:**

- 0.3.787

x\_traced\_call/1

**0.3.431 Predicate:**

map\_rm/2

INFO: (D,K): removes key K from map D

**Calls:**

- 0.3.428

map\_key/2

**Is called from:**

- 0.3.772

x\_abolish/1

**0.3.432 Predicate:**

map\_show/1

INFO: (D): lists the content of a map

**Calls:**

- 0.3.263

fail/0

- 0.3.427

map\_get/3

- 0.3.484

nl/0

- 0.3.527

println/1

### 0.3.433 Predicate:

maps\_clean/0

INFO: empties and cleans up all maps created with mmap\_new

#### Calls:

- 0.3.294  
foreach/2
- 0.3.367  
init\_gensym/1

### 0.3.434 Predicate:

maps\_gc/0

INFO: frees memory for all maps created with mmap\_new

#### Calls:

- 0.3.294  
foreach/2

### 0.3.435 Predicate:

maps\_iterate/1

INFO: (D): backtracks over map handles created with mmap\_new D

#### Calls:

- 0.3.29  
(=)/2
- 0.3.289  
for/3
- 0.3.672  
symcat/3

### 0.3.436 Predicate:

maps\_show/0

INFO: lists the content of all maps created with mmap\_new

### Calls:

- 0.3.294

foreach/2

### 0.3.437 Predicate:

match\_before/4

INFO: match\_before(+Stop,-Word,I,0): matches a word with DCGs until a given delimiter is hit

### Calls:

- 0.3.438

match\_before/5

### 0.3.438 Predicate:

match\_before/5

INFO: match\_before(+Stops,-Word,-Stop,I,0): matches a word with DCGs until a given delimiter set is hit, c

### Calls:

- 0.3.43

C/3

- 0.3.438

match\_before/5

- 0.3.442

member/2

### Is called from:

- 0.3.437

match\_before/4

- 0.3.438

match\_before/5



### 0.3.439 Predicate:

match\_word/3

INFO: match\_word(+Word,I,0): matches/consumes a word, in the context of DCGs

#### Calls:

- 0.3.43

C/3

- 0.3.439

match\_word/3

#### Is called from:

- 0.3.439

match\_word/3

### 0.3.440 Predicate:

max/3

INFO: (X,Y,Max): Max is the max of 2 numbers X, Y

#### Calls:

- 0.3.29

(=)/2

- 0.3.35

(>)/2

### 0.3.441 Predicate:

mcompile/1

INFO: compile/1 variant: cleans up data areas and compiles to memory

#### Calls:

- 0.3.52

abort/0

**Is called from:**

- 0.3.595

scompile/1

**0.3.442 Predicate:**

member/2

INFO: (X,Xs): checks if an element X unifies with an element on a list Xs or generates sucessively longer

EXAMPLE(S):

?-member(2,[1,2]).

yes

?-member(\_A,[1,2]).

\_A = 1;

\_A = 2;

no

**Calls:**

- 0.3.442

member/2

**Is called from:**

- 0.3.63

answer\_of/2

- 0.3.69

apropos/1

- 0.3.147

clean\_up\_engines/1

- 0.3.303

gc\_call/1

- 0.3.379

is\_engine/1

- 0.3.395  
list\_engines/0
- 0.3.421  
make\_compileable/2
- 0.3.438  
match\_before/5
- 0.3.442  
member/2
- 0.3.467  
(module)/2
- 0.3.566  
read\_terms\_from\_chars/3
- 0.3.629  
show\_defaults/0
- 0.3.631  
show\_info/2
- 0.3.691  
term\_of/2
- 0.3.720  
token\_of/2
- 0.3.765  
words\_code/2

### **0.3.443 Predicate:**

`member_conj/2`

INFO: like `member/2`, for a comma separated conjunction, ending with `true`

EXAMPLE(S):

```
?-member_conj(_A,(a,b,true)).
```

```
_A = a;
```

```
_A = b;
```

```
no
```

**Calls:**

- 0.3.443

member\_conj/2

**Is called from:**

- 0.3.443

member\_conj/2

**0.3.444 Predicate:**

member\_scan/3

INFO: finds first element without unifying to it

EXAMPLE(S):

```
?-member_scan(s(_A),[1,s(s(_B)),2],_C).  
_A = _x149282;  
_B = _x149292;  
_C = [s(s(_x149292)),2];
```

no

**Is called from:**

- 0.3.445

memberchk/2

**0.3.445 Predicate:**

memberchk/2

INFO: (X,Xs) checks if an X is a the list Xs

**Calls:**

- 0.3.29

(=)/2

- 0.3.444

member\_scan/3

#### **0.3.446 Predicate:**

`merge_sort/3`

INFO: (Order,List,Sorted)

EXAMPLE(S):

```
?-merge_sort(>,[1,3,2,2,4],_A).  
_A = [4,3,2,2,1];
```

no

#### **Calls:**

- 0.3.391

`length/2`

#### **Is called from:**

- 0.3.469

`msort/2`

- 0.3.647

`sort/2`

#### **0.3.447 Predicate:**

`metacall/1`

INFO: calls the interpreter

#### **Is called from:**

- 0.3.723

`topcall/1`

#### **0.3.448 Predicate:**

`min/3`

INFO: (X,Y,Min): Min is the min of 2 numbers X, Y

**Calls:**

- 0.3.29  
 $(=)/2$
- 0.3.32  
 $(=<)/2$

**0.3.449 Predicate:**

`mmap_clear/1`

INFO: (D): empties and cleans up D

**Calls:**

- 0.3.263  
`fail/0`

**Is called from:**

- 0.3.339  
`hash_clear/0`

**0.3.450 Predicate:**

`mmap_gc/1`

INFO: (D): frees unused memory in D

**Calls:**

- 0.3.263  
`fail/0`

**Is called from:**

- 0.3.344  
`hash_gc/0`

**0.3.451 Predicate:**

`mmap_get/3`

INFO: (D,K,V): gets V, given K in mmap D, backtracks over K if K unbound

**Calls:**

- 0.3.157

cmembq/3

- 0.3.452

mmap\_key/2

**Is called from:**

- 0.3.459

mmap\_show/1

**0.3.452 Predicate:**

mmap\_key/2

INFO: (D,K): succeeds if K is known, otherwise finds V backtracks over each key K in D

**Calls:**

- 0.3.157

cmembq/3

- 0.3.487

nonvar/1

**Is called from:**

- 0.3.451

mmap\_get/3

- 0.3.456

mmap\_rm/3

- 0.3.458

mmap\_rm\_one/3

**0.3.453 Predicate:**

mmap\_new/1

INFO: (D): returns a new mmap handle D - a mmap holds multiple elements for each key

**Calls:**

- 0.3.306

gensym/2

**0.3.454 Predicate:**

mmap\_push/3

INFO: (D,K,V): adds K,V as the first element of mmap D

**Calls:**

- 0.3.56

addq/3

- 0.3.538

pushq/3

**Is called from:**

- 0.3.348

hash\_push/2

**0.3.455 Predicate:**

mmap\_put/3

INFO: (D,K,V): adds K,V as the last element of mmap D

**Calls:**

- 0.3.56

addq/3

**0.3.456 Predicate:**

mmap\_rm/3

INFO: (D,K,X): removes a term X attached to key K from mmap D and backtracks on each such term



**Calls:**

- 0.3.137

`cdelq_any/3`

- 0.3.452

`mmap_key/2`

**Is called from:**

- 0.3.341

`hash_clear/2`

**0.3.457 Predicate:**

`mmap_rm_all/2`

INFO: (D,K): removes all terms X attached to key K from mmap D

**0.3.458 Predicate:**

`mmap_rm_one/3`

INFO: (D,K,X): removes first term X attached to key K from mmap D

**Calls:**

- 0.3.136

`cdelq/4`

- 0.3.452

`mmap_key/2`

**0.3.459 Predicate:**

`mmap_show/1`

INFO: (D): lists the content of a mmap

**Calls:**

- 0.3.263  
fail/0
- 0.3.451  
mmap\_get/3
- 0.3.484  
nl/0
- 0.3.527  
println/1

**0.3.460 Predicate:**

mmaps\_clean/0

INFO: empties and cleans up all mmaps created with mmap\_new

**Calls:**

- 0.3.294  
foreach/2
- 0.3.367  
init\_gensym/1

**0.3.461 Predicate:**

mmaps\_gc/0

INFO: frees memory for all mmaps created with mmap\_new

**Calls:**

- 0.3.294  
foreach/2

**0.3.462 Predicate:**

mmaps\_iterate/1

INFO: (D): backtracks over mmap handles created with mmap\_new D

**Calls:**

- 0.3.29

(=)/2

- 0.3.289

for/3

- 0.3.672

symcat/3

**0.3.463 Predicate:**

mmaps\_show/0

INFO: lists the content of all mmmaps created with mmap\_new

**Calls:**

- 0.3.294

foreach/2

**0.3.464 Predicate:**

mod/3

INFO: modulo

EXAMPLE(S):

?-mod(10,3,\_A).

\_A = 1;

no

**0.3.465 Predicate:**

(mode)/1

INFO: accepts mode declarations although we are not using them currently

**0.3.466 Predicate:**

(module)/1

INFO: starts a module

**Is called from:**

- 0.3.467

`(module)/2`

**0.3.467 Predicate:**

`(module)/2`

INFO: starts a module specifying a list of visible predicates

**Calls:**

- 0.3.263

`fail/0`

- 0.3.442

`member/2`

- 0.3.466

`(module)/1`

**0.3.468 Predicate:**

`modules/1`

INFO: returns a list of existing modules

**Calls:**

- 0.3.383

`is_module/1`

**0.3.469 Predicate:**

`msort/2`

INFO: sorts and keeps duplicates

EXAMPLE(S):

```
?-msort([2,1,3,1,4,4,2],_A).  
_A = [1,1,2,2,3,4,4];
```

no

**Calls:**

- 0.3.446

merge\_sort/3

**0.3.470 Predicate:**

(multifile)/1

INFO: states that clauses of a predicate can be in different files

**Is called from:**

- 0.3.240

(discontiguous)/1

**0.3.471 Predicate:**

name/2

INFO: bidirectional: converts atomic to/from list of chars

EXAMPLE(S):

```
?-name(hello,_A).  
_A = [104,101,108,108,111];
```

no

```
?-name(_A,[98,121,101]).  
_A = bye;
```

no

**Is called from:**

- 0.3.70

apropos/2

- 0.3.94

atom\_codes/2

- 0.3.313

get\_char/2

- 0.3.497

number\_codes/2

- 0.3.540

put\_char/2

- 0.3.561

read\_line/1

- 0.3.629

show\_defaults/0

- 0.3.654

sread/3

- 0.3.671

swrite/3

- 0.3.678

system/2

- 0.3.714

to\_string/2

### **0.3.472 Predicate:**

namecat/4

INFO: concatenates 3 names

EXAMPLE(S):

```
?-namecat(a,:,b,_A).  
_A = a:b;
```

no

### **Is called from:**

- 0.3.239

dir2list/3

- 0.3.649

spawn/3

- 0.3.788

xload/1

- 0.3.789

xsave/1

#### **0.3.473 Predicate:**

near\_match/2

INFO: matches 2 lists of chars

#### **Is called from:**

- 0.3.70

apropos/2

#### **0.3.474 Predicate:**

new\_builtin/3

INFO: sample 3 arg user added builtin - used for the C interface

#### **0.3.475 Predicate:**

new\_client/3

INFO: from a (host,port) to a client

#### **Is called from:**

- 0.3.657

start\_rpc/3

#### **0.3.476 Predicate:**

new\_engine/3

INFO: new\_engine(X,G,E) creates an engine E ready to execute goal G with answer X

#### **Calls:**

- 0.3.505

open\_engine/3

### 0.3.477 Predicate:

`new_iterator/2`

INFO: (GroundKey,Iterator) gets an iterator to terms attached to ground key

#### Calls:

- 0.3.692

`term_store_op/4`

#### Is called from:

- 0.3.311

`get_all_terms/2`

### 0.3.478 Predicate:

`new_key_iterator/1`

INFO: (Iterator): returns an iterator over the set of external keys

#### Calls:

- 0.3.692

`term_store_op/4`

### 0.3.479 Predicate:

`new_name/2`

INFO: returns a new name based on arg 1

### 0.3.480 Predicate:

`new_server/2`

INFO: opens on a port a new server

#### Is called from:

- 0.3.587

`rpc_server/3`

- 0.3.594

`run_server/6`



### **0.3.481 Predicate:**

`new_service/3`

INFO: from (server,timeout) to a service

### **Is called from:**

- 0.3.594

`run_server/6`

### **0.3.482 Predicate:**

`new_term/2`

INFO: (Term,Handle): creates a new external Term and returns an integer Handle to it

### **Calls:**

- 0.3.692

`term_store_op/4`

### **0.3.483 Predicate:**

`new_thread_guard/1`

INFO: returns a new free thread guard from pool

### **Calls:**

- 0.3.29

`(=)/2`

- 0.3.289

`for/3`

- 0.3.487

`nonvar/1`

- 0.3.674

`synchronize/2`

- 0.3.675

`synchronize_on/2`

- 0.3.751

`var/1`

### **0.3.484 Predicate:**

`nl/0`

INFO: writes a new line character

### **Calls:**

- 0.3.158

`cnl/0`

### **Is called from:**

- 0.3.69

`apropos/1`

- 0.3.355

`help/0`

- 0.3.395

`list_engines/0`

- 0.3.399

`listing/1`

- 0.3.400

`listing/2`

- 0.3.432

`map_show/1`

- 0.3.459

`mmap_show/1`

- 0.3.524

`pp_term/1`

- 0.3.597

`sdebug/1`

- 0.3.629

show\_defaults/0

- 0.3.631

show\_info/2

- 0.3.649

spawn/3

- 0.3.662

statistics/0

### **0.3.485 Predicate:**

nobbgc/0

INFO: disables blackboard gc

### **Calls:**

- 0.3.760

vset/2

### **0.3.486 Predicate:**

nogc/0

INFO: disables heap gc

### **0.3.487 Predicate:**

nonvar/1

INFO: true if currently instantiated

### **Is called from:**

- 0.3.72

argn/3

- 0.3.88

asserted/1

- 0.3.93

- atom\_chars/2
- 0.3.116
- bp\_info/2
- 0.3.132
- callable/1
- 0.3.164
- compound/1
- 0.3.184
- current\_op/3
- 0.3.186
- current\_predicate/1
- 0.3.187
- current\_predicate/2
- 0.3.193
- db\_asserted/2
- 0.3.195
- db\_clause/3
- 0.3.209
- db\_retractall/3
- 0.3.281
- float/1
- 0.3.329
- global\_set/3
- 0.3.366
- info/1
- 0.3.371

`interactive/1`

- 0.3.375

`is_builtin/1`

- 0.3.383

`is_module/1`

- 0.3.428

`map_key/2`

- 0.3.452

`mmap_key/2`

- 0.3.483

`new_thread_guard/1`

- 0.3.496

`number_chars/2`

- 0.3.497

`number_codes/2`

- 0.3.525

`predicate_property/2`

- 0.3.689

`term_codes/2`

- 0.3.769

`write_term_to_chars/3`

- 0.3.770

`write_words/1`

### **0.3.488 Predicate:**

`(nospy)/1`

INFO: do not spy on Pred/Arity anymore

**Calls:**

- 0.3.104

bb\_rm/2

- 0.3.300

functor/3

**Is called from:**

- 0.3.492

notrace/0

**0.3.489 Predicate:**

(not)/1

INFO: sound negation

**Calls:**

- 0.3.263

fail/0

- 0.3.332

ground/1

- 0.3.750

user\_error/2

**0.3.490 Predicate:**

notepad/0

INFO: calls notepad editor on last compiled file

**0.3.491 Predicate:**

notify\_about/1

INFO: notifies a suspended matching wait\_for(Term,Constraint), if Constraint holds, that Term is available

### 0.3.492 Predicate:

notrace/0

INFO: do not trace predicates when interpreted

#### Calls:

- 0.3.488

(nospy)/1

### 0.3.493 Predicate:

nth\_answer/2

INFO: (N,Goal) returns only the nth answer of Goal, if such an answer exists

#### Calls:

- 0.3.29

(=)/2

- 0.3.372

(is)/2

- 0.3.634

skip\_until/2

### 0.3.494 Predicate:

nth\_member/3

INFO: retrieves N-th element of a list

EXAMPLE(S):

```
?-nth_member(_A,[a,b,c],_B).
```

```
_A = a;
```

```
_B = 1;
```

```
_A = b;
```

```
_B = 2;
```

```
_A = c;
```

```
_B = 3;
```

```
no
```

### 0.3.495 Predicate:

number/1

INFO: true if integer or float

#### Calls:

- 0.3.281

float/1

- 0.3.369

integer/1

#### Is called from:

- 0.3.94

atom\_codes/2

- 0.3.497

number\_codes/2

- 0.3.714

to\_string/2

### 0.3.496 Predicate:

number\_chars/2

INFO: (Number,CharAtoms): converts between a number and its list of char atoms representation

EXAMPLE(S):

```
?-number_chars(1999,_A).
```

```
_A = [1,9,9,9];
```

no

#### Calls:

- 0.3.487

nonvar/1

- 0.3.497

number\_codes/2



### 0.3.497 Predicate:

number\_codes/2

INFO: (Number,CharCodes): converts between a number and its list of char code representation

EXAMPLE(S):

?-number\_codes(1999,\_A).

\_A = [49,57,57,57];

no

?-number\_codes(\_A,[50,48,48,49]).

\_A = 2001;

no

Calls:

- 0.3.258

errmes/2

- 0.3.471

name/2

- 0.3.487

nonvar/1

- 0.3.495

number/1

- 0.3.653

sread/2

Is called from:

- 0.3.496

number\_chars/2

### 0.3.498 Predicate:

numbervars/3

INFO: binds to \$VAR(I) with I over distinct integers variables in a term

**Calls:**

- 0.3.2  
    `(##)/1`
- 0.3.29  
    `(=)/2`
- 0.3.95  
    `atomic/1`
- 0.3.300  
    `functor/3`
- 0.3.372  
    `(is)/2`
- 0.3.498  
    `numbervars/3`

**Is called from:**

- 0.3.498  
    `numbervars/3`

**0.3.499 Predicate:**

`oconsult/1`

INFO: `reconsult/1` variant: `consults/compiles` based on `db_ratio` and overwrites old clauses

**Calls:**

- 0.3.177  
    `current_db/1`
- 0.3.203  
    `db_move/2`
- 0.3.277  
    `find_file/2`
- 0.3.610  
    `set_db/1`
- 0.3.672  
    `symcat/3`

**0.3.500 Predicate:**

older\_file/2

INFO: true if arg 1 is a file older than arg 2

**0.3.501 Predicate:**

once/1

INFO: executes once, with no backtracking

**Is called from:**

- 0.3.292

forall/2

- 0.3.294

foreach/2

- 0.3.346

hash\_key/1

**0.3.502 Predicate:**

one/4

INFO: one(Recognizer,Result): DCG based regexp processor for exactly one Recognizer

**Calls:**

- 0.3.212

dcg\_call/4

**0.3.503 Predicate:**

op/3

INFO: op(Pri,A,Op) defines an operator Op of priority Pri and associativity A

**0.3.504 Predicate:**

open/3

INFO: returns a stream (arg 3) on a file (arg 1) in read/write/append mode (arg 2)

**Calls:**

- 0.3.506

open\_stream/4

**0.3.505 Predicate:**

open\_engine/3

INFO: open\_engine(G,X,E) creates an engine E ready to execute goal G with answer X

**Calls:**

- 0.3.173

create\_engine/1

- 0.3.402

load\_engine/3

**Is called from:**

- 0.3.476

new\_engine/3

**0.3.506 Predicate:**

open\_stream/4

INFO: (Type,FileOrCmd,ReadWriteAppend,?StreamID) opens various streams

**Is called from:**

- 0.3.288

fopen/3

- 0.3.504

open/3

- 0.3.520

popen/3

**0.3.507 Predicate:**

otherwise/0

INFO: always succeeds

**0.3.508 Predicate:**

otime/1

INFO: gets time in secs from arbitrary origin to start

EXAMPLE(S):

?-otime(\_A).

\_A = 372179905;

no

**Calls:**

- 0.3.663

statistics/2

**0.3.509 Predicate:**

out/1

INFO: puts a term on Linda server or triggers resumption of a matching in/1 waiting for this data

**Calls:**

- 0.3.409

local\_out/1

**0.3.510 Predicate:**

override/3

INFO: overrides a compiled predicate - to be used with care

**0.3.511 Predicate:**

pc/0

INFO: pushes code compiled into the workspace to the persistent kernel

**Calls:**

- 0.3.536  
push\_code/1

**Is called from:**

- 0.3.547  
qcompile/1

**0.3.512 Predicate:**

pclose/1

INFO: closes a pipe generated stream

**Is called from:**

- 0.3.513  
pcollect/2
- 0.3.736  
unix/1

**0.3.513 Predicate:**

pcollect/2

INFO: collects output from a command to a list of char codes

**Calls:**

- 0.3.182  
current\_input/1
- 0.3.314  
get\_code/1
- 0.3.512  
pclose/1
- 0.3.520  
popen/3
- 0.3.614  
set\_input/1

**Is called from:**

- 0.3.239

dir2list/3

- 0.3.546

pwd/1

- 0.3.736

unix/1

**0.3.514 Predicate:**

peer\_addr/2

INFO: gets address of peer connected to socket

**0.3.515 Predicate:**

peer\_port/2

INFO: gets port of peer connected to socket

**0.3.516 Predicate:**

phrase/2

INFO: (Axiom, ?InputChars): DCG evaluator, starting from Axiom, consuming/producing InputChars

**Calls:**

- 0.3.517

phrase/3

**0.3.517 Predicate:**

phrase/3

INFO: (Axiom, ?InputChars, ?OutputChars): DCG evaluator, staring from Axiom

EXAMPLE(S):

```
?-phrase([a], [b]), [a, b|_A], _A.  
_A = _x149070;
```

no

**Calls:**

- 0.3.29

(=)/2

**Is called from:**

- 0.3.516

phrase/2

**0.3.518 Predicate:**

pico/0

INFO: calls pico editor on last compiled file

**0.3.519 Predicate:**

plus/4

INFO: plus(Recognizer,Result): DCG based plus regexp processor for (Recognizer)+

**Calls:**

- 0.3.212

dcg\_call/4

- 0.3.655

star/4

**0.3.520 Predicate:**

popen/3

INFO: popen(Cmd,read/write,Stream) opens Stream using a pipe from/to process executing Cmd

**Calls:**

- 0.3.29

(=)/2

- 0.3.506

open\_stream/4



**Is called from:**

- 0.3.513

pcollect/2

- 0.3.736

unix/1

**0.3.521 Predicate:**

portray\_clause/1

INFO: pretty prints a clause

**Calls:**

- 0.3.263

fail/0

**Is called from:**

- 0.3.523

pp\_clause/1

**0.3.522 Predicate:**

pow/3

INFO: (Base,Expo,Val) computes power function

EXAMPLE(S):

```
?-pow(2,3,_A).  
_A = 8;
```

no

**0.3.523 Predicate:**

pp\_clause/1

INFO: prints out a clause with some care on how it looks

**Calls:**

- 0.3.521

portray\_clause/1

**Is called from:**

- 0.3.353

hash\_save/2

- 0.3.649

spawn/3

- 0.3.781

x\_listing/1

**0.3.524 Predicate:**

pp\_term/1

INFO: pretty prints a term

**Calls:**

- 0.3.263

fail/0

- 0.3.484

nl/0

- 0.3.766

write/1

**0.3.525 Predicate:**

predicate\_property/2

INFO: returns a property of a predicate

EXAMPLE(S):

```
?-predicate_property(write(_A),_B).
```

```
_A = _x149194;
```

```
_B = built_in;
```

no

**Calls:**

- 0.3.487

nonvar/1

**Is called from:**

- 0.3.70

apropos/2

**0.3.526 Predicate:**

print/1

INFO: variant of write/1

**0.3.527 Predicate:**

println/1

INFO: synchronized printing of a term on a line

**Calls:**

- 0.3.673

synchronize/1

**Is called from:**

- 0.3.432

map\_show/1

- 0.3.459

mmap\_show/1

- 0.3.589

rpc\_test/1

- 0.3.780

x\_listing/0

- 0.3.782

x\_profile/0

**0.3.528 Predicate:**

process\_term/3

INFO: (OpCode,Input,Output): applies various user defined C functions to external terms

**Calls:**

- 0.3.692

term\_store\_op/4

**0.3.529 Predicate:**

prod/2

INFO: (List, ?Result): product of a list

EXAMPLE(S):

?-prod([10,20],\_A).

\_A = 200;

no

**Calls:**

- 0.3.286

foldl/4

**0.3.530 Predicate:**

profile/0

INFO: in specially compiled profiler mode prints out info accumulated so far

**0.3.531 Predicate:**

prolog\_flag/2

INFO: (Flag,Value): retrieves the value of a Prolog flag

**Calls:**

- 0.3.222

default/2

**0.3.532 Predicate:**

prolog\_init/1

INFO: runs more command line args representing prolog goals

### **0.3.533 Predicate:**

`prolog_load/1`

INFO: loads code and/or executes first command line arg

#### **Calls:**

- 0.3.128

`call_ifdef/2`

### **0.3.534 Predicate:**

`prolog_run/1`

INFO: starts `main/0` if defined, otherwise `toplevel/0`

#### **Calls:**

- 0.3.263

`fail/0`

### **0.3.535 Predicate:**

`(public)/1`

INFO: declares globally visible predicate `Name/Arity`

#### **Calls:**

- 0.3.535

`(public)/1`

#### **Is called from:**

- 0.3.535

`(public)/1`

### **0.3.536 Predicate:**

`push_code/1`

INFO: moves code compiled in workspace to kernel and returns top of code area - used by `pc/0`

**Is called from:**

- 0.3.511

pc/0

**0.3.537 Predicate:**

push\_term/2

INFO: (GroundKey,Term): attaches a term to a ground key in constant time as a the first element

**Calls:**

- 0.3.692

term\_store\_op/4

**0.3.538 Predicate:**

pushq/3

INFO: adds to beginning of persistent queuee

EXAMPLE(S):

```
?-pushq(key1,key2,f(_A,_A)).  
_A = _x148850;
```

no

**Calls:**

- 0.3.33

(==)/2

- 0.3.49

(\==)/2

- 0.3.99

bb\_gc/0

- 0.3.148

clear\_bp\_error/0

- 0.3.265

fatal\_error/2

- 0.3.312

get\_bp\_error/4

**Is called from:**

- 0.3.192

db\_asserta/2

- 0.3.454

mmap\_push/3

**0.3.539 Predicate:**

put/1

INFO: writes and ascii code as a char

EXAMPLE(S):

?-put(99).

c

yes

**Is called from:**

- 0.3.541

put\_code/1

**0.3.540 Predicate:**

put\_char/2

INFO: (Stream,CharAsOneLetterConstant): outputs a char to a stream -ISO Prolog

**Calls:**

- 0.3.258

errmes/2

- 0.3.471

name/2

- 0.3.542

put\_code/2

### **0.3.541 Predicate:**

put\_code/1

INFO: ISO char code writer

EXAMPLE(S):

```
?-put_code(99).  
c  
yes
```

### **Calls:**

- 0.3.539

put/1

### **Is called from:**

- 0.3.741

unix\_cat/1

- 0.3.767

write\_chars/1

### **0.3.542 Predicate:**

put\_code/2

INFO: outputs a char code to a stream - ISO

### **Calls:**

- 0.3.258

errmes/2

- 0.3.295

fputc/2

### **Is called from:**

- 0.3.540

put\_char/2



### **0.3.543 Predicate:**

`put_critical/2`

INFO: (Guard,Data): updates mutex Guard-protected Data on blackboard

#### **Calls:**

- 0.3.597  
`sdebug/1`
- 0.3.674  
`synchronize/2`
- 0.3.676  
`synchronize_on/3`

### **0.3.544 Predicate:**

`put_term/2`

INFO: (GroundKey,Term): attaches a term to a ground key in constant time as the last element

#### **Calls:**

- 0.3.692  
`term_store_op/4`

### **0.3.545 Predicate:**

`pwd/0`

INFO: shows current dir

#### **Calls:**

- 0.3.677  
`system/1`

### **0.3.546 Predicate:**

`pwd/1`

INFO: returns current dir as a list of chars

**Calls:**

- 0.3.513

pcollect/2

**0.3.547 Predicate:**

qcompile/1

INFO: compile/1 variant: compiles a file to memory after pushing current user code to kernel - where it be

**Calls:**

- 0.3.511

pc/0

**0.3.548 Predicate:**

qfindall/4

INFO: qfindall(X,G,Xs,Ys): queues based, slightly faster findall/4, not MT-safe

EXAMPLE(S):

```
?-qfindall(s(_A),(_A = 1 ; _A = 2),_B,[3,4]).
```

```
_A = _x149183;
```

```
_B = [s(1),s(2),3,4];
```

no

**Calls:**

- 0.3.31

(=:)/2

- 0.3.220

debugmes/1

**0.3.549 Predicate:**

qmake/1

INFO: compiles Project to fast C code - for packaging as standalone executable

**Calls:**

- 0.3.550

qmake/2

### **0.3.550 Predicate:**

qmake/2

INFO: (Project,Module): compiles to fast C code a project in Module: uses set\_threshold(12,60) before doc

#### **Calls:**

- 0.3.156

cmake/2

- 0.3.609

set\_c\_threshold/2

#### **Is called from:**

- 0.3.549

qmake/1

### **0.3.551 Predicate:**

qprint/1

INFO: prints out a clause such that a variant of it can be always read back

#### **Is called from:**

- 0.3.211

db\_save/2

### **0.3.552 Predicate:**

quiet/1

INFO: gets/sets level of "quietness"

#### **Calls:**

- 0.3.369

integer/1

- 0.3.755

vget0/2

- 0.3.760

vset/2

**Is called from:**

- 0.3.554

quietmes/2

- 0.3.597

sdebug/1

- 0.3.778

x\_gc/0

- 0.3.782

x\_profile/0

- 0.3.787

x\_traced\_call/1

- 0.3.788

xload/1

- 0.3.789

xsave/1

**0.3.553 Predicate:**

quietmes/1

INFO: writes message if in low quietness mode

**Calls:**

- 0.3.554

quietmes/2

**0.3.554 Predicate:**

quietmes/2

INFO: writes message if quietness is lower than arg 1)

**Calls:**

- 0.3.32

`(=<)/2`

- 0.3.552

`quiet/1`

- 0.3.735

`ttyprint/1`

**Is called from:**

- 0.3.220

`debugmes/1`

- 0.3.553

`quietmes/1`

**0.3.555 Predicate:**

`quit/0`

INFO: same as `halt`

**Calls:**

- 0.3.333

`halt/0`

**0.3.556 Predicate:**

`random/1`

INFO: returns a random integer

EXAMPLE(S):

```
?-random(_A).
```

```
_A = 2508;
```

no

**0.3.557 Predicate:**

random\_seed/1

INFO: initializes random/1 with an integer, uses clock if 0

**0.3.558 Predicate:**

rd/1

INFO: reads a term matching arg 1 from Linda blackboard

**Calls:**

- 0.3.410

local\_rd/1

**0.3.559 Predicate:**

read/1

INFO: reads a term

**Is called from:**

- 0.3.691

term\_of/2

**0.3.560 Predicate:**

read\_chars/1

INFO: reads to a list of ascii codes

**Calls:**

- 0.3.314

get\_code/1

**Is called from:**

- 0.3.561

read\_line/1

- 0.3.567

read\_words/1

### 0.3.561 Predicate:

read\_line/1

INFO: reads a line into a constant

#### Calls:

- 0.3.471  
name/2
- 0.3.560  
read\_chars/1

### 0.3.562 Predicate:

read\_term/2

INFO: reads a term and also a list of variable-name associations

### 0.3.563 Predicate:

read\_term\_from\_chars/2

INFO: reads a term from a list of char codes

EXAMPLE(S):

```
?-read_term_from_chars([102,40,88,44,88,44,89,44,89,41],_A).  
_A = f(_x151573,_x151573,_x151624,_x151624);
```

no

#### Calls:

- 0.3.564  
read\_term\_from\_chars/3

### 0.3.564 Predicate:

read\_term\_from\_chars/3

INFO: reads a term with variable names from a list of char codes

EXAMPLE(S):

```
?-read_term_from_chars([102,40,88,44,88,44,89,44,89,41],_A,_B).  
_A = f(_x151678,_x151678,_x151729,_x151729);  
_B = [X = _x151678,Y = _x151729];
```

no

Is called from:

- 0.3.563

read\_term\_from\_chars/2

- 0.3.566

read\_terms\_from\_chars/3

- 0.3.654

sread/3

### 0.3.565 Predicate:

read\_terms\_from\_chars/2

INFO: (Chars,Clause): backtracks over Clause(s) parsed from a list of char codes

Calls:

- 0.3.566

read\_terms\_from\_chars/3

### 0.3.566 Predicate:

read\_terms\_from\_chars/3

INFO: (Chars,Clause,VarsInClause): backtracks over Clause(s) parsed from a list of char codes

EXAMPLE(S):

```
?-read_terms_from_chars([98,40,88,44,89,41,58,45,97,40,89,44,88,41,46,32,97,40,49,44,49,41,46,32,97,40,95,
_A = (b(_x154557,_x154585) :- a(_x154585,_x154557));
_B = [X = _x154557,Y = _x154585];
```

```
_A = a(1,1);
_B = [];
```

```
_A = a(_x154156,2);
_B = [_ = _x154156];
```

no



**Calls:**

- 0.3.65

append/3

- 0.3.442

member/2

- 0.3.564

read\_term\_from\_chars/3

**Is called from:**

- 0.3.565

read\_terms\_from\_chars/2

**0.3.567 Predicate:**

read\_words/1

INFO: reads a line into a list of words

**Calls:**

- 0.3.161

codes\_words/2

- 0.3.560

read\_chars/1

**0.3.568 Predicate:**

reboot/0

INFO: regenerates BinProlog from its sources

**Calls:**

- 0.3.115

boot/0

### **0.3.569 Predicate:**

reconsult/1

INFO: applies current consult method to file given as arg 1, set db\_ratio/1 for specifying dynamic recompilation

### **Is called from:**

- 0.3.160

co/1

### **0.3.570 Predicate:**

remote\_run/1

INFO: runs Goal on remote server using default password

### **Calls:**

- 0.3.223

default\_host/1

- 0.3.226

default\_port/1

- 0.3.571

remote\_run/3

### **0.3.571 Predicate:**

remote\_run/3

INFO: (Host,Port,Goal): runs Goal on remote server at Host, Port with default password

### **Calls:**

- 0.3.225

default\_password/1

- 0.3.572

remote\_run/6

**Is called from:**

- 0.3.570

remote\_run/1

**0.3.572 Predicate:**

remote\_run/6

INFO: (Host,Port,Answer,Goal,Password,Reply): runs Goal on server at Host, Port with given Password and re

**Calls:**

- 0.3.131

call\_jinni/3

**Is called from:**

- 0.3.571

remote\_run/3

**0.3.573 Predicate:**

remove\_current\_term/1

INFO: (Iterator) removes current term attached to an iterator

**Calls:**

- 0.3.692

term\_store\_op/4

**0.3.574 Predicate:**

repeat/0

INFO: backtracks until its continuation succeeds; defined as repeat. repeat:-repeat.

**Calls:**

- 0.3.574

repeat/0

**Is called from:**

- 0.3.140

char\_of/2

- 0.3.308

get/1

- 0.3.574

repeat/0

- 0.3.594

run\_server/6

- 0.3.606

service\_loop/2

- 0.3.691

term\_of/2

- 0.3.724

toplevel/0

**0.3.575 Predicate:**

restart/0

INFO: cleans up data areas and reinitializes symbol tables

**Calls:**

- 0.3.128

call\_ifdef/2

**0.3.576 Predicate:**

retract/1

INFO: backtracks over deleting matching clauses

**Calls:**

- 0.3.177

current\_db/1

- 0.3.205

db\_retract/2

- 0.3.783

x\_retract/1

**0.3.577 Predicate:**

retract1/1

INFO: deletes first matching clause in the current database

**Calls:**

- 0.3.177

current\_db/1

- 0.3.207

db\_retract1/2

**0.3.578 Predicate:**

retractall/1

INFO: deletes all matching clauses

**Calls:**

- 0.3.177

current\_db/1

- 0.3.208

db\_retractall/2

- 0.3.784

x\_retractall/1

Is called from:

- 0.3.611

set\_default/1

**0.3.579 Predicate:**

return/1

INFO: returns data from an engine as if it were an answer - such that the engine can be resumed with get/2

Calls:

- 0.3.580

return0/1

**0.3.580 Predicate:**

return0/1

INFO: returns a term from an engine left in a state ready to resume

Is called from:

- 0.3.579

return/1

**0.3.581 Predicate:**

reverse/2

INFO: reverses a list

EXAMPLE(S):

```
?-reverse([a,b,c],_A).  
_A = [c,b,a];
```

no

**0.3.582 Predicate:**

round/2

INFO: float to int function

EXAMPLE(S):

?-round(1.51,\_A).

\_A = 2;

no

**Calls:**

- 0.3.372

(is)/2

**0.3.583 Predicate:**

rpc/1

INFO: (Query): calls server on current local reusable socket

**Calls:**

- 0.3.584

rpc/3

**Is called from:**

- 0.3.589

rpc\_test/1

**0.3.584 Predicate:**

rpc/3

INFO: (Answer,Goal,Result): calls server on local reusable socket and gets back Result as the(Answer) or n

**Calls:**

- 0.3.79

ask/5

**Is called from:**

- 0.3.583

rpc/1

### **0.3.585 Predicate:**

rpc\_server/0

INFO: runs Jinni compatible server with socket reuse on default port

### **Calls:**

- 0.3.225  
default\_password/1
- 0.3.228  
default\_this\_port/1
- 0.3.586  
rpc\_server/2

### **0.3.586 Predicate:**

rpc\_server/2

INFO: Port,Password: runs Jinni compatible server with socket reuse

### **Calls:**

- 0.3.229  
default\_timeout/1
- 0.3.587  
rpc\_server/3

### **Is called from:**

- 0.3.585  
rpc\_server/0

### **0.3.587 Predicate:**

rpc\_server/3

INFO: Port,Password,Timeout: runs Jinni compatible server with socket reuse



**Calls:**

- 0.3.480

new\_server/2

**Is called from:**

- 0.3.586

rpc\_server/2

**0.3.588 Predicate:**

rpc\_test/0

INFO: tests rpc server and client with socket reuse

**Calls:**

- 0.3.110

bg/1

- 0.3.589

rpc\_test/1

- 0.3.636

sleep/1

**0.3.589 Predicate:**

rpc\_test/1

INFO: tests rpc client with socket reuse for a given number of operations

**Calls:**

- 0.3.29

(=)/2

- 0.3.176

ctime/1

- 0.3.289

for/3

- 0.3.372

(is)/2

- 0.3.527

println/1

- 0.3.583

rpc/1

- 0.3.656

start\_rpc/0

- 0.3.666

stop\_rpc/0

**Is called from:**

- 0.3.588

rpc\_test/0

**0.3.590 Predicate:**

rttime/1

INFO: gets elapsed real time in secs

EXAMPLE(S):

?-rttime(\_A).

\_A = 21;

no

**Calls:**

- 0.3.663

statistics/2

**Is called from:**

- 0.3.710

timed\_call/4

**0.3.591 Predicate:**

`run_server/0`

INFO: runs foreground server on localhost (default port) for Jinni clients

**Calls:**

- 0.3.228

`default_this_port/1`

- 0.3.592

`run_server/1`

**0.3.592 Predicate:**

`run_server/1`

INFO: runs foreground server on Port to provide services to Jinni clients

**Calls:**

- 0.3.593

`run_server/2`

**Is called from:**

- 0.3.591

`run_server/0`

**0.3.593 Predicate:**

`run_server/2`

INFO: (Port,Password): runs server on Port, Password required from clients

**Calls:**

- 0.3.594

`run_server/6`

**Is called from:**

- 0.3.592

`run_server/1`

### **0.3.594 Predicate:**

`run_server/6`

INFO: (Port,Password,Heap,Stack,Trail,Timeout): runs server with specified service parameters

#### **Calls:**

- 0.3.114  
`bg/7`
- 0.3.263  
`fail/0`
- 0.3.480  
`new_server/2`
- 0.3.481  
`new_service/3`
- 0.3.574  
`repeat/0`

#### **Is called from:**

- 0.3.593  
`run_server/2`

### **0.3.595 Predicate:**

`scompile/1`

INFO: smart compile/1 variant: if the \*.wam file is newer reloads, otherwise fcompiles first

#### **Calls:**

- 0.3.52  
`abort/0`
- 0.3.385  
`is_prolog/1`
- 0.3.441  
`mcompile/1`

### **0.3.596 Predicate:**

sconsult/1

INFO: reconsult/1 variant: cleans up data areas consults, makes all static

### **0.3.597 Predicate:**

sdebug/1

INFO: emits mt-safe synchronized debug message

### **Calls:**

- 0.3.27  
(<)/2
- 0.3.109  
begin\_critical/0
- 0.3.253  
end\_critical/0
- 0.3.484  
nl/0
- 0.3.552  
quiet/1
- 0.3.766  
write/1

### **Is called from:**

- 0.3.316  
get\_critical/2
- 0.3.543  
put\_critical/2

**0.3.598 Predicate:**

`see/1`

INFO: focuses input on a file

**Calls:**

- 0.3.750  
`user_error/2`

**Is called from:**

- 0.3.691  
`term_of/2`

**0.3.599 Predicate:**

`see_at/1`

INFO: seeks a seekable file at a give offset (in bytes)

**Calls:**

- 0.3.750  
`user_error/2`

**0.3.600 Predicate:**

`see_or_fail/1`

INFO: opens a file if it exists, otherwise fails

**Is called from:**

- 0.3.259  
`exists_file/1`

**0.3.601 Predicate:**

`seeing/1`

INFO: gets file name opened and set by `see/1`

**Is called from:**

- 0.3.650

(spy)/1

- 0.3.691

term\_of/2

**0.3.602 Predicate:**

seeing\_at/1

INFO: retrieves position in current file opened by see/1

**0.3.603 Predicate:**

seen/0

INFO: close file opened by see/1

**Is called from:**

- 0.3.259

exists\_file/1

- 0.3.691

term\_of/2

**0.3.604 Predicate:**

sentence\_of/2

INFO: reads a natural language file to a sentence built as a list of words - on backtracking

**Calls:**

- 0.3.29

(=)/2

- 0.3.161

codes\_words/2

- 0.3.605

sentence\_of/3

### **0.3.605 Predicate:**

sentence\_of/3

INFO: (File,Ends,Sent) reads a file to a sentence separated by Ends - on backtracking

#### **Calls:**

- 0.3.277

find\_file/2

- 0.3.288

fopen/3

#### **Is called from:**

- 0.3.394

line\_of/2

- 0.3.604

sentence\_of/2

### **0.3.606 Predicate:**

service\_loop/2

INFO: ServiceSocket,Password:starts service loop on reusable ServiceSocket - works on server side with ser

#### **Calls:**

- 0.3.64

answer\_one\_query/2

- 0.3.263

fail/0

- 0.3.574

repeat/0

### **0.3.607 Predicate:**

set\_bp\_error/4

INFO: (Id,Mes,Arg1,Arg2): notifies emulator about error condition



**Calls:**

- 0.3.258  
errmes/2
- 0.3.760  
vset/2

**Is called from:**

- 0.3.148  
clear\_bp\_error/0

**0.3.608 Predicate:**

set\_c\_threshold/1

INFO: related to C generator: sets length K of WAM instruction block such that block larger than K will ge

**Calls:**

- 0.3.609  
set\_c\_threshold/2

**0.3.609 Predicate:**

set\_c\_threshold/2

INFO: (Min,Max): related to C generator: sets Min,Max length of WAM instruction block such that blocks bet

**Calls:**

- 0.3.102  
bb\_let/3

**Is called from:**

- 0.3.550  
qmake/2
- 0.3.608  
set\_c\_threshold/1

### **0.3.610 Predicate:**

`set_db/1`

INFO: sets the name of active database for dynamic code

### **Calls:**

- 0.3.760

`vset/2`

### **Is called from:**

- 0.3.499

`oconsult/1`

### **0.3.611 Predicate:**

`set_default/1`

INFO: asserts arg 1 as default state for use by default/2

### **Calls:**

- 0.3.84

`assert/1`

- 0.3.300

`functor/3`

- 0.3.578

`retractall/1`

### **Is called from:**

- 0.3.613

`set_host/1`

- 0.3.617

`set_login/1`

- 0.3.620

`set_port/1`

- 0.3.621

set\_prolog\_flag/2

- 0.3.622

set\_this\_host/1

- 0.3.624

set\_timeout/1

#### **0.3.612 Predicate:**

set\_hash\_max/1

INFO: Set the range of values from -1 to -Max, that should be a prime number, defaults to 1999

#### **0.3.613 Predicate:**

set\_host/1

INFO: asserts IP adress or name of server host we want to talk to

#### **Calls:**

- 0.3.611

set\_default/1

#### **0.3.614 Predicate:**

set\_input/1

INFO: sets current input stream

#### **Is called from:**

- 0.3.513

pcollect/2

#### **0.3.615 Predicate:**

set\_lineno/1

INFO: sets line number counter in current file - use with care

**Calls:**

- 0.3.369

integer/1

- 0.3.761

vset\_int/2

**Is called from:**

- 0.3.364

include/1

**0.3.616 Predicate:**

set\_load\_method/1

INFO: sets the current load method by name

**Calls:**

- 0.3.403

load\_method/2

- 0.3.760

vset/2

**0.3.617 Predicate:**

set\_login/1

INFO: asserts default (nick)name for user

**Calls:**

- 0.3.611

set\_default/1

**0.3.618 Predicate:**

set\_output/1

INFO: sets current output stream

### **0.3.619 Predicate:**

set\_password/1

INFO: sets default password for user

#### **Calls:**

- 0.3.357

hide\_default/1

### **0.3.620 Predicate:**

set\_port/1

INFO: asserts port number of the server we want to talk to

#### **Calls:**

- 0.3.369

integer/1

- 0.3.611

set\_default/1

### **0.3.621 Predicate:**

set\_prolog\_flag/2

INFO: (Flag,Value): sets the value of a Prolog flag

#### **Calls:**

- 0.3.611

set\_default/1

### **0.3.622 Predicate:**

set\_this\_host/1

INFO: asserts IP adress or name of this machine

#### **Calls:**

- 0.3.611

set\_default/1

### 0.3.623 Predicate:

set\_this\_port/1

INFO: asserts default port for to work as a server on

#### Calls:

- 0.3.369  
integer/1
- 0.3.760  
vset/2

### 0.3.624 Predicate:

set\_timeout/1

INFO: asserts default timeout

#### Calls:

- 0.3.611  
set\_default/1

### 0.3.625 Predicate:

setarg/3

INFO: backtrackable: setarg(I,T,X) replaces arg I of T with X

EXAMPLE(S):

?-setarg(2,f(a,b),c).

yes

### 0.3.626 Predicate:

setof/3

INFO: all solutions predicate generating sorted sets of unduplicated answers

EXAMPLE(S):

?-setof(\_A,member(\_A,[3,2,2,1]),\_B).

\_A = \_x149050;

\_B = [1,2,3];

no

**Calls:**

- 0.3.647

sort/2

**0.3.627 Predicate:**

shell/1

INFO: passes a command to the OS

**Calls:**

- 0.3.677

system/1

**0.3.628 Predicate:**

show\_default/1

INFO: makes available a default value

**Calls:**

- 0.3.106

bb\_val/3

**Is called from:**

- 0.3.222

default/2

- 0.3.325

get\_password/1

**0.3.629 Predicate:**

show\_defaults/0

INFO: show default values of some system variables

**Calls:**

- 0.3.65  
append/3
- 0.3.128  
call\_ifdef/2
- 0.3.187  
current\_predicate/2
- 0.3.263  
fail/0
- 0.3.442  
member/2
- 0.3.471  
name/2
- 0.3.484  
nl/0
- 0.3.766  
write/1

**0.3.630 Predicate:**

show\_engine/0

INFO: if debugmes/1 is on (as with quiet(1)), shows params of current engine

**0.3.631 Predicate:**

show\_info/2

INFO: generates components of info/1 output



**Calls:**

- 0.3.29

`(=)/2`

- 0.3.263

`fail/0`

- 0.3.442

`member/2`

- 0.3.484

`nl/0`

- 0.3.766

`write/1`

**0.3.632 Predicate:**

`sign/2`

INFO: int function

**Calls:**

- 0.3.29

`(=)/2`

- 0.3.35

`(>)/2`

**0.3.633 Predicate:**

`sin/2`

INFO: float function

**0.3.634 Predicate:**

`skip_until/2`

INFO: findall variant

**Calls:**

- 0.3.263

fail/0

**Is called from:**

- 0.3.493

nth\_answer/2

**0.3.635 Predicate:**

skip\_when/2

INFO: findall variant

**Calls:**

- 0.3.263

fail/0

**Is called from:**

- 0.3.242

drop\_at\_least/2

**0.3.636 Predicate:**

sleep/1

INFO: waits arg 1 seconds

**Is called from:**

- 0.3.588

rpc\_test/0

- 0.3.710

timed\_call/4

**0.3.637 Predicate:**

sock2file/2

INFO: reads from a socket, to a file

**0.3.638 Predicate:**

sock\_read/2

INFO: reads from a socket when size of the data is described by int before chars to be read

**Calls:**

- 0.3.639

sock\_read/3

**0.3.639 Predicate:**

sock\_read/3

INFO: reads from a socket, a string

**Is called from:**

- 0.3.638

sock\_read/2

**0.3.640 Predicate:**

sock\_readln/2

INFO: reads from a socket until an end of line LF (ascii 10) or char 0 is found and discards possible prev

**Calls:**

- 0.3.641

sock\_readln/3

**0.3.641 Predicate:**

sock\_readln/3

INFO: reads from a socket, a line

**Is called from:**

- 0.3.640

sock\_readln/2

**0.3.642 Predicate:**

`sock_write/2`

INFO: writes a string to a socket prefixed by its lenght

**Calls:**

- 0.3.643

`sock_write/3`

**0.3.643 Predicate:**

`sock_write/3`

INFO: writes to a socket, a string

**Is called from:**

- 0.3.642

`sock_write/2`

**0.3.644 Predicate:**

`sock_writeln/2`

INFO: writes a string to a socket and adds an ascii 10 to the end

**Calls:**

- 0.3.645

`sock_writeln/3`

**0.3.645 Predicate:**

`sock_writeln/3`

INFO: writes to a socket, a line

**Is called from:**

- 0.3.644

`sock_writeln/2`

### 0.3.646 Predicate:

solutions/2

INFO: (GX,Xs): adds (last) output arg X to closure G then works like findall(X,GX,Xs)

EXAMPLE(S):

```
?-solutions(argn(_A,f(a,b,c)),_B).
```

```
_A = _x149017;
```

```
_B = [a,b,c];
```

no

Calls:

- 0.3.687

term\_append/3

### 0.3.647 Predicate:

sort/2

INFO: sorts and removes duplicates

EXAMPLE(S):

```
?-sort([2,1,3,1,4,4,2],_A).
```

```
_A = [1,2,3,4];
```

no

Calls:

- 0.3.446

merge\_sort/3

Is called from:

- 0.3.63

answer\_of/2

- 0.3.69

apropos/1

- 0.3.626

setof/3

### **0.3.648 Predicate:**

spawn/1

INFO: spawns Goal in a new bp window on W95/NT PC and Unix/X

### **Calls:**

- 0.3.649

spawn/3

### **0.3.649 Predicate:**

spawn/3

INFO: spawns(Goal,Includes,TempFile): spawns a new bp window

### **Calls:**

- 0.3.220

debugmes/1

- 0.3.294

foreach/2

- 0.3.472

namecat/4

- 0.3.484

nl/0

- 0.3.523

pp\_clause/1

- 0.3.677

system/1

- 0.3.682

tell/1

- 0.3.722

told/0

**Is called from:**

- 0.3.648

spawn/1

**0.3.650 Predicate:**

(spy)/1

INFO: set spy point on goal, triggering trace when interpreted

**Calls:**

- 0.3.102

bb\_let/3

- 0.3.300

functor/3

- 0.3.375

is\_builtin/1

- 0.3.601

seeing/1

- 0.3.735

ttyprint/1

- 0.3.750

user\_error/2

**Is called from:**

- 0.3.726

trace/0

**0.3.651 Predicate:**

spying/1

INFO: checks what we are spying

**Calls:**

- 0.3.375

is\_builtin/1

**0.3.652 Predicate:**

sqrt/2

INFO: returns square root of arg 1, a float

EXAMPLE(S):

```
?-sqrt(2,_A).  
_A = 1.41421356;
```

no

**0.3.653 Predicate:**

sread/2

INFO: reads a term from a string (atom)

**Calls:**

- 0.3.654

sread/3

**Is called from:**

- 0.3.497

number\_codes/2

**0.3.654 Predicate:**

sread/3

INFO: reads a term and a list of vars from a string (atom)

EXAMPLE(S):

```
?-sread(f(X,Y),_A,_B).  
_A = f(_x149840,_x149868);  
_B = [X = _x149840,Y = _x149868];
```

no



**Calls:**

- 0.3.471

name/2

- 0.3.564

read\_term\_from\_chars/3

**Is called from:**

- 0.3.653

sread/2

**0.3.655 Predicate:**

star/4

INFO: star(Recognizer,Result): DCG based star regexp processor for (Recognizer)\*

**Calls:**

- 0.3.212

dcg\_call/4

- 0.3.655

star/4

**Is called from:**

- 0.3.519

plus/4

- 0.3.655

star/4

**0.3.656 Predicate:**

start\_rpc/0

INFO: starts rpc client on default local reusable socket and port

**Calls:**

- 0.3.223  
default\_host/1
- 0.3.225  
default\_password/1
- 0.3.226  
default\_port/1
- 0.3.657  
start\_rpc/3

**Is called from:**

- 0.3.589  
rpc\_test/1

**0.3.657 Predicate:**

start\_rpc/3

INFO: (Host,Port>Password): starts rpc client on local reusable socket

**Calls:**

- 0.3.258  
errmes/2
- 0.3.475  
new\_client/3

**Is called from:**

- 0.3.656  
start\_rpc/0

**0.3.658 Predicate:**

stat/0

INFO: short hand for statistics

**Calls:**

- 0.3.662

statistics/0

**0.3.659 Predicate:**

stat2dyn/1

INFO: stat2dyn(H): reverts to uncompiled representation for a predicate with head H

**Calls:**

- 0.3.177

current\_db/1

- 0.3.660

stat2dyn/2

**0.3.660 Predicate:**

stat2dyn/2

INFO: stat2dyn(Db,H): reverts to uncompiled representation for a predicate in database Db with head H

**Calls:**

- 0.3.199

db\_head/2

- 0.3.263

fail/0

**Is called from:**

- 0.3.659

stat2dyn/1

**0.3.661 Predicate:**

static\_prolog\_flag/2

INFO: contains read-only Prolog flag values

**Calls:**

- 0.3.247  
dynco/1
- 0.3.385  
is\_prolog/1
- 0.3.672  
symcat/3
- 0.3.759  
vread/2

**0.3.662 Predicate:**

statistics/0

INFO: shows info about data areas

EXAMPLE(S):

```
?-statistics.  
runtime=[22828,15782]  
global_stack=[595896,1420104]  
local_stack=[224,1022740]  
trail=[75144,947828]  
code=[266652,781908]  
strings=[26509,1022067]  
symbols=[22380,239764]  
htable=[158544,627888]  
bboard=[1693084,39264864]  
gctime=[0,0]  
realtime=[23,372179905]
```

yes

**Calls:**

- 0.3.263  
fail/0
- 0.3.484  
nl/0
- 0.3.663  
statistics/2

Is called from:

- 0.3.658

stat/0

**0.3.663 Predicate:**

statistics/2

INFO: returns info about data areas

EXAMPLE(S):

```
?-statistics(_A,_B).
_A = runtime;
_B = [22859,31];

_A = global_stack;
_B = [596712,1419288];

_A = local_stack;
_B = [208,1022756];

_A = trail;
_B = [75172,947800];

_A = code;
_B = [266652,781908];

_A = strings;
_B = [26509,1022067];

_A = symbols;
_B = [22380,239764];

_A = htable;
_B = [158544,627888];

_A = bboard;
_B = [1694448,39263500];

_A = gctime;
_B = [0,0];

_A = realtime;
_B = [23,372179905];

no
```

Is called from:

- 0.3.54

abstime/1

- 0.3.100

bb\_gc0/0

- 0.3.176

ctime/1

- 0.3.508

otime/1

- 0.3.590

rtime/1

- 0.3.662

statistics/0

#### **0.3.664 Predicate:**

stop/0

INFO: exits thread or process

#### **Calls:**

- 0.3.334

halt/1

#### **0.3.665 Predicate:**

stop/1

INFO: stops and frees resources held by an engine (may happen automatically if an engine fails)

#### **Calls:**

- 0.3.232

destroy\_engine/1

#### **0.3.666 Predicate:**

stop\_rpc/0

INFO: stops rpc client on local reusable socket

**Is called from:**

- 0.3.589

rpc\_test/1

**0.3.667 Predicate:**

stop\_service/0

INFO: stops server with socket reuse - acts on the server side

**0.3.668 Predicate:**

subsumes\_chk/2

INFO: checks if arg 1 is subsumed by arg 2, after renaming vars

**Calls:**

- 0.3.263

fail/0

**Is called from:**

- 0.3.752

variant\_of/2

**0.3.669 Predicate:**

sum/2

INFO: (List,?Result): sum of a list

EXAMPLE(S):

```
?-sum([10,20],_A).  
_A = 30;
```

no

**Calls:**

- 0.3.286

foldl/4

### 0.3.670 Predicate:

swrite/2

INFO: writes a term to a string (atom)

#### Calls:

- 0.3.94

atom\_codes/2

### 0.3.671 Predicate:

swrite/3

INFO: writes a term with a liste of vars to a string (atom)

#### Calls:

- 0.3.471

name/2

- 0.3.769

write\_term\_to\_chars/3

### 0.3.672 Predicate:

symcat/3

INFO: makes new identifier from arg 1 and arg 2

EXAMPLE(S):

```
?-symcat(a,b,_A).
```

```
_A = a_b;
```

```
no
```

```
?-symcat(a,1,_A).
```

```
_A = a_1;
```

```
no
```



**Is called from:**

- 0.3.306

gensym/2

- 0.3.435

maps\_iterate/1

- 0.3.462

mmaps\_iterate/1

- 0.3.499

oconsult/1

- 0.3.661

static\_prolog\_flag/2

**0.3.673 Predicate:**

synchronize/1

INFO: wraps Goal in arg 1 for serialized execution

**Calls:**

- 0.3.675

synchronize\_on/2

**Is called from:**

- 0.3.527

println/1

**0.3.674 Predicate:**

synchronize/2

INFO: wraps Goal for serialized execution and returns true or fail

**Calls:**

- 0.3.676

synchronize\_on/3

**Is called from:**

- 0.3.297  
free\_thread\_guard/1
- 0.3.316  
get\_critical/2
- 0.3.483  
new\_thread\_guard/1
- 0.3.543  
put\_critical/2

**0.3.675 Predicate:**

synchronize\_on/2

INFO: wraps Goal for sync on given mutex for serialized execution

**Calls:**

- 0.3.338  
has\_threads/0
- 0.3.676  
synchronize\_on/3

**Is called from:**

- 0.3.280  
findall/4
- 0.3.297  
free\_thread\_guard/1
- 0.3.405  
local\_all/3
- 0.3.406  
local\_cin/1

- 0.3.408

local\_in/1

- 0.3.409

local\_out/1

- 0.3.410

local\_rd/1

- 0.3.411

local\_when/1

- 0.3.483

new\_thread\_guard/1

- 0.3.673

synchronize/1

#### **0.3.676 Predicate:**

synchronize\_on/3

INFO: wraps Goal for sync on given mutex for serialized execution and returns true or fail

#### **Calls:**

- 0.3.29

(=)/2

- 0.3.412

lock\_thread\_guard/1

- 0.3.747

unlock\_thread\_guard/1

**Is called from:**

- 0.3.316  
    get\_critical/2
- 0.3.543  
    put\_critical/2
- 0.3.674  
    synchronize/2
- 0.3.675  
    synchronize\_on/2

**0.3.677 Predicate:**

system/1

INFO: passes a command to the OS

**Calls:**

- 0.3.678  
    system/2

**Is called from:**

- 0.3.236  
    dir/0
- 0.3.250  
    edit/2
- 0.3.415  
    ls/0
- 0.3.545  
    pwd/0
- 0.3.627  
    shell/1
- 0.3.649  
    spawn/3

**0.3.678 Predicate:**

system/2

INFO: passes a command to the OS and gets back return code

**Calls:**

- 0.3.95  
atomic/1
- 0.3.471  
name/2

**Is called from:**

- 0.3.677  
system/1

**0.3.679 Predicate:**

tab/1

INFO: outputs N blanks

**Calls:**

- 0.3.369  
integer/1
- 0.3.750  
user\_error/2

**0.3.680 Predicate:**

take\_at\_most/2

INFO: (N,Goal) computes at most N answers of Goal

**Calls:**

- 0.3.29  
(=)/2
- 0.3.764  
while/2

**Is called from:**

- 0.3.276

find\_at\_most/4

**0.3.681 Predicate:**

tan/2

INFO: float function

**0.3.682 Predicate:**

tell/1

INFO: focuses output on a file

**Calls:**

- 0.3.750

user\_error/2

**Is called from:**

- 0.3.211

db\_save/2

- 0.3.353

hash\_save/2

- 0.3.421

make\_compileable/2

- 0.3.649

spawn/3

**0.3.683 Predicate:**

tell\_at/1

INFO: moves output file pointer to a given offset (in bytes)

**Calls:**

- 0.3.750

user\_error/2

**0.3.684 Predicate:**

tell\_at\_end/1

INFO: focuses output on file opened in append mode

**Calls:**

- 0.3.750

user\_error/2

**0.3.685 Predicate:**

telling/1

INFO: gets file name opened and set by tell/1

**Is called from:**

- 0.3.421

make\_compileable/2

**0.3.686 Predicate:**

telling\_at/1

INFO: retrieves output file position (in bytes)

**0.3.687 Predicate:**

term\_append/3

INFO: efficiently concatenates 2 terms

EXAMPLE(S):

```
?-term_append(f(a,b),g(c,d),_A).  
_A = f(a,b,c,d);
```

no

**Is called from:**

- 0.3.121

call/2

- 0.3.122

call/3

- 0.3.123

call/4

- 0.3.124

call/5

- 0.3.125

call/6

- 0.3.126

call/7

- 0.3.646

solutions/2

**0.3.688 Predicate:**

`term_chars/2`

INFO: (Term,Chars): converts between a term and its list of char code representation

EXAMPLE(S):

```
?-term_chars(f(a,b),_A).  
_A = [102,40,97,44,98,41];
```

no

```
?-term_chars(_A,[102,40,97,44,98,41]).  
_A = f(a,b);
```

no

**Calls:**

- 0.3.689

`term_codes/2`



**Is called from:**

- 0.3.714

to\_string/2

### **0.3.689 Predicate:**

term\_codes/2

INFO: (Term,Chars): converts between a term and its list of char code representation

EXAMPLE(S):

```
?-term_codes(f(a,b),_A).  
_A = [102,40,97,44,98,41];
```

no

```
?-term_codes(_A,[102,40,97,44,98,41]).  
_A = f(a,b);
```

no

**Calls:**

- 0.3.487

nonvar/1

**Is called from:**

- 0.3.688

term\_chars/2

### **0.3.690 Predicate:**

term\_hash/2

INFO: computes hash code on terms ground up to depth 64; fails if something is unbound or the limit is reached

EXAMPLE(S):

```
?-term_hash(t(a,b),_A).  
_A = 236945626;
```

no

```
?-term_hash(t(a,c),_A).  
_A = 236945625;
```

no

**Calls:**

- 0.3.221  
    deep\_hash/4

**0.3.691 Predicate:**

term\_of/2

INFO: reads a Prolog file to a set of terms - on backtracking

**Calls:**

- 0.3.29  
    (=)/2
- 0.3.33  
    (==)/2
- 0.3.71  
    arg/3
- 0.3.263  
    fail/0
- 0.3.277  
    find\_file/2
- 0.3.442  
    member/2
- 0.3.559  
    read/1
- 0.3.574  
    repeat/0
- 0.3.598  
    see/1
- 0.3.601  
    seeing/1
- 0.3.603  
    seen/0
- 0.3.691  
    term\_of/2

**Is called from:**

- 0.3.144

clause\_of/2

- 0.3.347

hash\_load/1

- 0.3.691

term\_of/2

**0.3.692 Predicate:**

term\_store\_op/4

INFO: API for external term storage

**Is called from:**

- 0.3.151

close\_iterator/1

- 0.3.170

count\_terms/2

- 0.3.230

delete\_all\_terms/1

- 0.3.296

free\_term/1

- 0.3.324

get\_next\_term/2

- 0.3.337

has\_terms/1

- 0.3.368

instance\_of/2

- 0.3.477

new\_iterator/2

- 0.3.478

new\_key\_iterator/1

- 0.3.482

new\_term/2

- 0.3.528

process\_term/3

- 0.3.537

push\_term/2

- 0.3.544

put\_term/2

- 0.3.573

remove\_current\_term/1

- 0.3.732

tstest/3

- 0.3.749

update\_current\_term/2

### **0.3.693 Predicate:**

textedit/0

INFO: calls texedit editor on last compiled file

### **0.3.694 Predicate:**

the/1

INFO: defined as the(G):-the(G,G)

### **Calls:**

- 0.3.695

the/2

**0.3.695 Predicate:**

the/2

INFO: defined as the(X,G):-the(X,G,the(X))

**Calls:**

- 0.3.696

the/3

**Is called from:**

- 0.3.694

the/1

**0.3.696 Predicate:**

the/3

INFO: the(X,G,R) first answer R=the(X) or R=no, without binding G

**Calls:**

- 0.3.29

(=)/2

- 0.3.168

copy\_term/2

**Is called from:**

- 0.3.695

the/2

**0.3.697 Predicate:**

this\_db/1

INFO: same as current\_db, returns the current database

**Calls:**

- 0.3.177

current\_db/1

**0.3.698 Predicate:**

`this_engine/1`

INFO: gets a handle to the current engine

**Calls:**

- 0.3.179

`current_engine_addr/1`

**Is called from:**

- 0.3.298

`from_engine/1`

**0.3.699 Predicate:**

`thread_cancel/1`

INFO: terminates (cancels) thread given in arg 1

**0.3.700 Predicate:**

`thread_exit/0`

INFO: exits a thread

**Calls:**

- 0.3.701

`thread_exit/1`

**0.3.701 Predicate:**

`thread_exit/1`

INFO: exits a thread

**Is called from:**

- 0.3.700

`thread_exit/0`

**0.3.702 Predicate:**

thread\_join/1

INFO: joins thread

**0.3.703 Predicate:**

thread\_notify/1

INFO: notifies a thread waiting on guard with thread\_wait

**0.3.704 Predicate:**

thread\_notify\_all/1

INFO: notifies all threads waiting on guard with thread\_wait

**0.3.705 Predicate:**

thread\_resume/1

INFO: resumes execution of suspended thread

**Is called from:**

- 0.3.409

local\_out/1

**0.3.706 Predicate:**

thread\_suspend/1

INFO: suspends execution of thread

**Is called from:**

- 0.3.408

local\_in/1

- 0.3.411

local\_when/1

**0.3.707 Predicate:**

`thread_timed_wait/2`

INFO: waits on first arg Guard second arg msec or until notified

**Is called from:**

- 0.3.708

`thread_wait/1`

- 0.3.731

`try_unlock_thread_guard/2`

**0.3.708 Predicate:**

`thread_wait/1`

INFO: waits on guard until notified by `thread_notify`

**Calls:**

- 0.3.229

`default_timeout/1`

- 0.3.707

`thread_timed_wait/2`

**0.3.709 Predicate:**

`throw/1`

INFO: ISO Prolog exception operator: throws a term to be caught by a matching catch

**0.3.710 Predicate:**

`timed_call/4`

INFO: (Answer,Goal,Timeout,Result) - calls and possibly stops Goal after Timeout secs



**Calls:**

- 0.3.27  
`(<)/2`
- 0.3.29  
`(=)/2`
- 0.3.35  
`(>)/2`
- 0.3.112  
`bg/3`
- 0.3.220  
`debugmes/1`
- 0.3.232  
`destroy_engine/1`
- 0.3.263  
`fail/0`
- 0.3.289  
`for/3`
- 0.3.338  
`has_threads/0`
- 0.3.406  
`local_cin/1`
- 0.3.590  
`rttime/1`
- 0.3.636  
`sleep/1`

### **0.3.711 Predicate:**

`to_engine/2`

INFO: (E,T) sends to engine E a term T, and fails if E has an empty message box

#### **Calls:**

- 0.3.98

`bb_def/3`

### **0.3.712 Predicate:**

`to_lower_char/2`

INFO: (Upper,Lower): converts a char to lower case

#### **Calls:**

- 0.3.29

`(=)/2`

- 0.3.32

`(=<)/2`

- 0.3.36

`(>=)/2`

- 0.3.372

`(is)/2`

#### **Is called from:**

- 0.3.713

`to_lower_chars/2`

### **0.3.713 Predicate:**

`to_lower_chars/2`

INFO: converts a list of chars to lower case

**Calls:**

- 0.3.712  
to\_lower\_char/2
- 0.3.713  
to\_lower\_chars/2

**Is called from:**

- 0.3.713  
to\_lower\_chars/2

**0.3.714 Predicate:**

to\_string/2

INFO: converts a term to a string constant (in particular, converts numbers to strings)

EXAMPLE(S):

```
?-to_string(13,_A).  
_A = 13;
```

no

```
?-to_string(3.14,_A).  
_A = 3.14;
```

no

```
?-to_string(f(_A,_A),_B).  
_A = _x149232;  
_B = f(_x149232,_x149232);
```

no

**Calls:**

- 0.3.471  
name/2
- 0.3.495  
number/1
- 0.3.688  
term\_chars/2

**0.3.715 Predicate:**

to\_tokens/2

INFO: to\_tokens(Codes,PrologTokens)

**Calls:**

- 0.3.29

(=)/2

**0.3.716 Predicate:**

to\_upper\_char/2

INFO: (Lower,Upper): converts a char to upper case

**Calls:**

- 0.3.29

(=)/2

- 0.3.32

(=<)/2

- 0.3.36

(>=)/2

- 0.3.372

(is)/2

**Is called from:**

- 0.3.717

to\_upper\_chars/2

**0.3.717 Predicate:**

to\_upper\_chars/2

INFO: converts a list of chars to upper case

**Calls:**

- 0.3.716  
to\_upper\_char/2
- 0.3.717  
to\_upper\_chars/2

**Is called from:**

- 0.3.717  
to\_upper\_chars/2

**0.3.718 Predicate:**

to\_word\_codes/2

INFO: to\_word\_codes(Codes,ListOfWordCodes)

**Calls:**

- 0.3.29  
(=)/2

**Is called from:**

- 0.3.719  
to\_words/2

**0.3.719 Predicate:**

to\_words/2

INFO: to\_words(Codes,NaturalLanguageWords)

**Calls:**

- 0.3.258  
errmes/2
- 0.3.718  
to\_word\_codes/2
- 0.3.751  
var/1

**Is called from:**

- 0.3.161

codes\_words/2

**0.3.720 Predicate:**

token\_of/2

INFO: reads a Prolog file to a set of tokens - on backtracking

**Calls:**

- 0.3.161

codes\_words/2

- 0.3.394

line\_of/2

- 0.3.442

member/2

**Is called from:**

- 0.3.721

tokens\_of/2

**0.3.721 Predicate:**

tokens\_of/2

INFO: reads a Prolog file to a slist of tokens

**Calls:**

- 0.3.720

token\_of/2

**0.3.722 Predicate:**

told/0

INFO: closes file opened by tell/1

**Is called from:**

- 0.3.211

db\_save/2

- 0.3.353

hash\_save/2

- 0.3.421

make\_compileable/2

- 0.3.649

spawn/3

**0.3.723 Predicate:**

topcall/1

INFO: calls arg 1 as if it were entered by the user at Prolog prompt

**Calls:**

- 0.3.447

metacall/1

**Is called from:**

- 0.3.114

bg/7

- 0.3.212

dcg\_call/4

- 0.3.213

dcg\_call/5

**0.3.724 Predicate:**

toplevel/0

INFO: interactive toplevel Prolog loop

**Calls:**

- 0.3.263

fail/0

- 0.3.574

repeat/0

- 0.3.725

topstep/1

**0.3.725 Predicate:**

topstep/1

INFO: interactive toplevel Prolog step

**Calls:**

- 0.3.734

ttyprin/1

- 0.3.735

ttyprint/1

**Is called from:**

- 0.3.724

toplevel/0

**0.3.726 Predicate:**

trace/0

INFO: trace all predicates when interpreted

**Calls:**

- 0.3.650

(spy)/1



**0.3.727 Predicate:**

trace/1

INFO: traces execution of a goal

**0.3.728 Predicate:**

trim\_term/4

INFO: trim\_term(D,Filler,T,NewT) replaces subterms of T deeper than D with Filler

**Calls:**

- 0.3.29

(=)/2

- 0.3.30

(=..)/2

- 0.3.95

atomic/1

- 0.3.281

float/1

- 0.3.372

(is)/2

- 0.3.751

var/1

**0.3.729 Predicate:**

truncate/2

INFO: float to int function

EXAMPLE(S):

?-truncate(1.51,\_A).

\_A = 1;

no

**Calls:**

- 0.3.370

integer/2

**0.3.730 Predicate:**

try\_unlock\_thread\_guard/1

INFO: try to unlock a thread guard

**Calls:**

- 0.3.731

try\_unlock\_thread\_guard/2

**0.3.731 Predicate:**

try\_unlock\_thread\_guard/2

INFO: try to unlock a thread guard for a specified timeout

**Calls:**

- 0.3.707

thread\_timed\_wait/2

- 0.3.747

unlock\_thread\_guard/1

**Is called from:**

- 0.3.730

try\_unlock\_thread\_guard/1

**0.3.732 Predicate:**

tstest/3

INFO: (K,V,R): performs various tests with external terms

**Calls:**

- 0.3.692

term\_store\_op/4

**0.3.733 Predicate:**

tsync\_op/3

INFO: same as thread\_operation(Op, MutexOrParam, ActionOrValue) various thread synchronization operations

**0.3.734 Predicate:**

ttyprin/1

INFO: writes to terminal

**Is called from:**

- 0.3.725

topstep/1

**0.3.735 Predicate:**

ttyprint/1

INFO: writes to terminal with a new line

**Is called from:**

- 0.3.342

hash\_compile/0

- 0.3.554

quietmes/2

- 0.3.650

(spy)/1

- 0.3.725

topstep/1

**0.3.736 Predicate:**

unix/1

INFO: executes various Unix commands

**Calls:**

- 0.3.258  
errmes/2
- 0.3.512  
pclose/1
- 0.3.513  
pcollect/2
- 0.3.520  
popen/3
- 0.3.737  
unix\_access/2
- 0.3.738  
unix\_argc/1
- 0.3.739  
unix\_argv/1
- 0.3.740  
unix\_argv/2
- 0.3.741  
unix\_cat/1
- 0.3.742  
unix\_cd/1
- 0.3.743  
unix\_fork/1
- 0.3.744  
unix\_getenv/2
- 0.3.745  
unix\_kill/2
- 0.3.746  
unix\_pid/1

### 0.3.737 Predicate:

unix\_access/2

INFO: checks if arg1 (a path+file) is accessible in arg 2 (integer) mode

Is called from:

- 0.3.736

unix/1

### 0.3.738 Predicate:

unix\_argc/1

INFO: gets cmd line arg counter

EXAMPLE(S):

```
?-unix_argc(_A).  
_A = 6;
```

no

Is called from:

- 0.3.736

unix/1

- 0.3.739

unix\_argv/1

### 0.3.739 Predicate:

unix\_argv/1

INFO: gets the list of cmd line args from 1 to argc

EXAMPLE(S):

```
?-unix_argv(_A).  
_A = [-h40000,-s2000,-t2000,-b40000,preds.pro];
```

no

**Calls:**

- 0.3.289

for/3

- 0.3.372

(is)/2

- 0.3.738

unix\_argc/1

- 0.3.740

unix\_argv/2

**Is called from:**

- 0.3.736

unix/1

**0.3.740 Predicate:**

unix\_argv/2

INFO: gets a cmd line arg from 0 to argc

EXAMPLE(S):

```
?-unix_argv(0,_A).  
_A = c:\bin\bp.exe;
```

no

**Is called from:**

- 0.3.736

unix/1

- 0.3.739

unix\_argv/1

**0.3.741 Predicate:**

unix\_cat/1

INFO: prints a file to user terminal

**Calls:**

- 0.3.31  
    (=:)/2
- 0.3.267  
    fclose/1
- 0.3.270  
    fgetc/2
- 0.3.288  
    fopen/3
- 0.3.289  
    for/3
- 0.3.299  
    fsize/2
- 0.3.541  
    put\_code/1

**Is called from:**

- 0.3.736  
    unix/1

**0.3.742 Predicate:**

unix\_cd/1

INFO: changes local dir to arg 1

**Is called from:**

- 0.3.135  
    cd/1
- 0.3.736  
    unix/1

**0.3.743 Predicate:**

unix\_fork/1

INFO: starts child process with Unix fork

**Is called from:**

- 0.3.736

unix/1

**0.3.744 Predicate:**

unix\_getenv/2

INFO: gets an environment variable

**Is called from:**

- 0.3.235

detect\_user/1

- 0.3.736

unix/1

**0.3.745 Predicate:**

unix\_kill/2

INFO: sends signal arg 1 to process with pid arg 2

**Is called from:**

- 0.3.736

unix/1

**0.3.746 Predicate:**

unix\_pid/1

INFO: returns process id of current process

**Is called from:**

- 0.3.736

unix/1



**0.3.747 Predicate:**

`unlock_thread_guard/1`

INFO: unlocks thread guard

**Is called from:**

- 0.3.253  
`end_critical/0`
- 0.3.676  
`synchronize_on/3`
- 0.3.731  
`try_unlock_thread_guard/2`

**0.3.748 Predicate:**

`untrail_to/1`

INFO: unwinds the trail up to a choice point

**Is called from:**

- 0.3.11  
`$process_catch/3`

**0.3.749 Predicate:**

`update_current_term/2`

INFO: (Iterator,NewTerm): replaces current term of an iterator

**Calls:**

- 0.3.692  
`term_store_op/4`

**0.3.750 Predicate:**

`user_error/2`

INFO: writes basic error message and fail

**Is called from:**

- 0.3.277

find\_file/2

- 0.3.489

(not)/1

- 0.3.598

see/1

- 0.3.599

see\_at/1

- 0.3.650

(spy)/1

- 0.3.679

tab/1

- 0.3.682

tell/1

- 0.3.683

tell\_at/1

- 0.3.684

tell\_at\_end/1

**0.3.751 Predicate:**

var/1

INFO: true if currently an unbound variable

**Is called from:**

- 0.3.30

`(=..)/2`

- 0.3.161

`codes_words/2`

- 0.3.247

`dynco/1`

- 0.3.345

`hash_get/2`

- 0.3.371

`interactive/1`

- 0.3.391

`length/2`

- 0.3.483

`new_thread_guard/1`

- 0.3.719

`to_words/2`

- 0.3.728

`trim_term/4`

**0.3.752 Predicate:**

`variant_of/2`

INFO: checks if args are the same up to a renaming of vars

**Calls:**

- 0.3.668

`subsumes_chk/2`

### 0.3.753 Predicate:

vars\_of/2

INFO: (Term,Vars): lists free vars of a term

EXAMPLE(S):

```
?-vars_of(f(_A,t(_A,_B,_C),_C),_D).  
_A = _x149043;  
_B = _x149048;  
_C = _x149045;  
_D = [_x149043,_x149048,_x149045];
```

no

### 0.3.754 Predicate:

vget/2

INFO: gets a VSHARE declared C data object in a term like int(N),F/N or var(V)

Calls:

- 0.3.75

array\_get/3

### 0.3.755 Predicate:

vget0/2

INFO: gets the type and value of a C word

Calls:

- 0.3.76

array\_get0/3

Is called from:

- 0.3.108

bbgc\_status/1

- 0.3.177

current\_db/1

- 0.3.204

db\_ratio/1

- 0.3.228

default\_this\_port/1

- 0.3.244

dyn2stat/2

- 0.3.304

gc\_status/1

- 0.3.312

get\_bp\_error/4

- 0.3.322

get\_load\_method/1

- 0.3.364

include/1

- 0.3.552

quiet/1

### **0.3.756 Predicate:**

vget\_int/2

INFO: gets a VSHARE defined int C variable to a 28 bit int

### **Calls:**

- 0.3.757

vget\_int0/2

- 0.3.759

vread/2

### **Is called from:**

- 0.3.321

get\_lineno/1

**0.3.757 Predicate:**

vget\_int0/2

INFO: gets from arg 1 - an int\* C variable - to a 28 bit int

**Is called from:**

- 0.3.756

vget\_int/2

**0.3.758 Predicate:**

vi/0

INFO: calls vi editor on last compiled file

**0.3.759 Predicate:**

vread/2

INFO: reads HDEFI or HDEFS defined C constant into a Prolog integer or atom

**Is called from:**

- 0.3.234

detect\_ip\_addr/1

- 0.3.338

has\_threads/0

- 0.3.360

hostname/1

- 0.3.661

static\_prolog\_flag/2

- 0.3.756

vget\_int/2

- 0.3.761

vset\_int/2

### 0.3.760 Predicate:

vset/2

INFO: sets a VSHARE declared C data object in a term like int(N),F/N or var(V)

### Calls:

- 0.3.77

array\_set/3

### Is called from:

- 0.3.204

db\_ratio/1

- 0.3.244

dyn2stat/2

- 0.3.246

dynbbgc/0

- 0.3.485

nobbgc/0

- 0.3.552

quiet/1

- 0.3.607

set\_bp\_error/4

- 0.3.610

set\_db/1

- 0.3.616

set\_load\_method/1

- 0.3.623

set\_this\_port/1

**0.3.761 Predicate:**

vset\_int/2

INFO: sets a VSHARE defined int C variable to a 28 bit int

**Calls:**

- 0.3.759

vread/2

- 0.3.762

vset\_int0/2

**Is called from:**

- 0.3.615

set\_lineno/1

**0.3.762 Predicate:**

vset\_int0/2

INFO: sets arg 1 - an int\* C variable - to a 28 bit int

**Is called from:**

- 0.3.761

vset\_int/2

**0.3.763 Predicate:**

wait\_for/2

INFO: wait\_for(Term,Constraint) waits for a term on the blackboard, such that Constraint holds

**0.3.764 Predicate:**

while/2

INFO: (Cond,Goal): findall variant which explores alternative answers for Goal, while Cond holds,

**Calls:**

- 0.3.263

fail/0



**Is called from:**

- 0.3.278

find\_while/4

- 0.3.680

take\_at\_most/2

**0.3.765 Predicate:**

words\_code/2

INFO: generates a code ready to print, one a t a time with put/1 from a list of words

**Calls:**

- 0.3.94

atom\_codes/2

- 0.3.442

member/2

**Is called from:**

- 0.3.161

codes\_words/2

**0.3.766 Predicate:**

write/1

INFO: writes to current output stream set with tell/1, defaults to <user> - Prolog's stdio

**Is called from:**

- 0.3.69

apropos/1

- 0.3.366

info/1

- 0.3.395

list\_engines/0

- 0.3.400

listing/2

- 0.3.524

pp\_term/1

- 0.3.597

sdebug/1

- 0.3.629

show\_defaults/0

- 0.3.631

show\_info/2

### **0.3.767 Predicate:**

write\_chars/1

INFO: writes a list of ascii codes

EXAMPLE(S):

```
?-write_chars([104,101,108,108,111]).
hello
yes
```

### **Calls:**

- 0.3.541

put\_code/1

- 0.3.767

write\_chars/1

### **Is called from:**

- 0.3.767

write\_chars/1

### 0.3.768 Predicate:

`write_term_to_chars/2`

INFO: writes a term to a list of char codes

EXAMPLE(S):

```
?-write_term_to_chars(f(_A,_A,_B,_B),_C).
```

```
_A = _x149372;
```

```
_B = _x149374;
```

```
_C = [102,40,95,120,49,52,57,51,55,50,44,95,120,49,52,57,51,55,50,44,95,120,49,52,57,51,55,52,44,95,120,49,
```

no

Calls:

- 0.3.769

`write_term_to_chars/3`

### 0.3.769 Predicate:

`write_term_to_chars/3`

INFO: writes a term with variables names to a list of char codes

EXAMPLE(S):

```
?-write_term_to_chars(f(_A,_B),[X = _A,Y = _B],_C).
```

```
_A = _x149549;
```

```
_B = _x149550;
```

```
_C = [102,40,39,88,39,44,39,89,39,41];
```

no

Calls:

- 0.3.258

`errmes/2`

- 0.3.487

`nonvar/1`

Is called from:

- 0.3.671

`swrite/3`

- 0.3.768

`write_term_to_chars/2`

### 0.3.770 Predicate:

write\_words/1

INFO: write list of words to a space separated line

### Calls:

- 0.3.258  
errmes/2
- 0.3.487  
nonvar/1

### 0.3.771 Predicate:

writeq/1

INFO: variant of write which quotes if needed, so that term is read back correctly/1

### 0.3.772 Predicate:

x\_abolish/1

INFO: db hook, deletes all matching clauses and unmarks the clause as dynamic

### Calls:

- 0.3.300  
functor/3
- 0.3.425  
map\_clear/1
- 0.3.427  
map\_get/3
- 0.3.431  
map\_rm/2
- 0.3.784  
x\_retractall/1

**Is called from:**

- 0.3.51

abolish/1

**0.3.773 Predicate:**

x\_asserta/1

INFO: db hook, adds a clause to be first in a predicate definition

**Calls:**

- 0.3.2

(##)/1

**Is called from:**

- 0.3.87

asserta/1

**0.3.774 Predicate:**

x\_assertz/1

INFO: db hook, adds a clause to be last in a predicate definition

**Calls:**

- 0.3.2

(##)/1

**Is called from:**

- 0.3.89

assertz/1

**0.3.775 Predicate:**

x\_clause/2

INFO: db hook, clause(H,B) generates a clause with head matching H and body B

**Is called from:**

- 0.3.143

clause/2

- 0.3.781

x\_listing/1

**0.3.776 Predicate:**

x\_consult/1

INFO: db hook, consults with possible duplication of clauses

**Calls:**

- 0.3.294

foreach/2

**Is called from:**

- 0.3.166

consult/1

**0.3.777 Predicate:**

x\_dynamic/1

INFO: db hook, states that a predicate can be updated

**Calls:**

- 0.3.300

functor/3

**Is called from:**

- 0.3.245

(dynamic)/1

**0.3.778 Predicate:**

x\_gc/0

INFO: db hook, recovers memory used by the database

**Calls:**

- 0.3.128  
call\_ifdef/2
- 0.3.176  
ctime/1
- 0.3.263  
fail/0
- 0.3.372  
(is)/2
- 0.3.552  
quiet/1

**0.3.779 Predicate:**

x\_is\_dynamic/1

INFO: db hook, checks if dynamic

**Is called from:**

- 0.3.378  
is\_dynamic/1

**0.3.780 Predicate:**

x\_listing/0

INFO: db hook, lists given predicate if in current database

**Calls:**

- 0.3.263  
fail/0
- 0.3.345  
hash\_get/2
- 0.3.527  
println/1
- 0.3.781  
x\_listing/1

**Is called from:**

- 0.3.398

listing/0

**0.3.781 Predicate:**

x\_listing/1

INFO: lists predicate F of arity N if in current database

**Calls:**

- 0.3.263

fail/0

- 0.3.300

functor/3

- 0.3.523

pp\_clause/1

- 0.3.775

x\_clause/2

**Is called from:**

- 0.3.399

listing/1

- 0.3.780

x\_listing/0

**0.3.782 Predicate:**

x\_profile/0

INFO: db hook, shows the result of profiling compiled predicates



**Calls:**

- 0.3.263  
fail/0
- 0.3.372  
(is)/2
- 0.3.427  
map\_get/3
- 0.3.527  
println/1
- 0.3.552  
quiet/1

**0.3.783 Predicate:**

x\_retract/1

INFO: db hook, backtracks over deleting matching clauses

**Is called from:**

- 0.3.576  
retract/1

**0.3.784 Predicate:**

x\_retractall/1

INFO: db hook, deletes all matching clauses

**Calls:**

- 0.3.2  
(##)/1

**Is called from:**

- 0.3.578  
retractall/1
- 0.3.772  
x\_abolish/1

**0.3.785 Predicate:**

`x_trace/1`

INFO: traces and profiles predicates, in combination with `x_profile`

**Calls:**

- 0.3.787

`x_traced_call/1`

**0.3.786 Predicate:**

`x_trace/2`

INFO: db hook, internal

**Calls:**

- 0.3.29

`(=)/2`

- 0.3.376

`is_compiled/1`

**0.3.787 Predicate:**

`x_traced_call/1`

INFO: traces calls if compile-time `x_trace` triggers it

**Calls:**

- 0.3.29

`(=)/2`

- 0.3.176

`ctime/1`

- 0.3.372

`(is)/2`

- 0.3.427

map\_get/3

- 0.3.430

map\_put/3

- 0.3.552

quiet/1

**Is called from:**

- 0.3.785

x\_trace/1

**0.3.788 Predicate:**

xload/1

INFO: xload(File) loads clauses to the current database, from a binary File

**Calls:**

- 0.3.128

call\_ifdef/2

- 0.3.166

consult/1

- 0.3.472

namecat/4

- 0.3.552

quiet/1

**0.3.789 Predicate:**

xsave/1

INFO: xsave(File) saves all the clauses of the current database to a binary File

**Calls:**

- 0.3.210

db\_save/1

- 0.3.472

namecat/4

- 0.3.552

quiet/1

**0.3.790 Predicate:**

~ /1

INFO: short hand for reconsult

**Calls:**

- 0.3.160

co/1

Related BinProlog documentation is available at: [4, 2, 3, 1].

## References

- [1] P. Tarau. BinProlog 7.0 Professional Edition: Predicate Cross-Reference Guide . Technical report, BinNet Corp., 1998. Available from <http://www.binnetcorp.com/BinProlog>.
- [2] P. Tarau. BinProlog 9.x Professional Edition: Advanced BinProlog Programming and Extensions Guide. Technical report, BinNet Corp., 2002. Available from <http://www.binnetcorp.com/BinProlog>.
- [3] P. Tarau. BinProlog 9.x Professional Edition: BinProlog Interfaces Guide. Technical report, BinNet Corp., 2002. Available from <http://www.binnetcorp.com/BinProlog>.
- [4] P. Tarau. BinProlog 9.x Professional Edition: User Guide. Technical report, BinNet Corp., 2002. Available from <http://www.binnetcorp.com/BinProlog>.