wme.pl

Tim Menzies
Lane Deptartment of Computer Science and Electrical Engineering
West Virginia University
Morgantown, WV 26506
tim@menzies.us

Contents

1 Working Memory Management

Assertions are hashed on some index.

Assertions are grouped into *N1* numeric levels and `zap` can reset all working memory elements from level `N2` and above.

2 Header

2.1 Flags */

```
:- dynamic(wme/3). /*
```

3 Body */

```
make(W) :-
  wme(W,I,_), hash_term(I,H), assert(hashed(H,W)). /*
```

3.1 Finding WMEs */

```
wmes(L) :- wmes(-1,L).
wmes(N,All) :-
   setof(L=wme(W,I,L), N^(wme(W,I,L),L>=N), Temp)
   -> maplist(arg(2),Temp,All)
   ;  All=[]. /*
```

3.2 Reset */

```
reset :-
   forall((wme(W,_,_),functor(W,F,A)), dynamic(F/A)). /*
```

3.3 Zap

Zap from level `N` and above. */

```
zap :- zap(-1).
zap(N) :-
   wmes(N,All),
   forall(member(wme(W,_,_),All), retractall(hashed(_,W))). /*
```

3.4 Report

Report upwards from level `N`. */

```
report :- report(-1).
report(N) :-
   wmes(N,All),
   member(wme(W,_,_),All),
   functor(W,F,A),
   format('% ~w\n',F/A),
```

```
    W,
    numbervars(W,0,_),
    format('~p.\n',W),
    fail.
report(_).
```