CA1

Saturday 24 October 2020 19:44

tracing : ?- value (lion, social_behavior, X).

rename: X = _1

value (lion, social_behavior, _1).

```
value( Frame, Slot, Value) :-
    Query =.. [ Frame, Slot, Value],
    call( Query),!.
```

Frame = lion,
Slot = social_behavior,
Value = _1

BT

{ lion(social_behavior, -1), ! }

back trace (BT)

fail

```
value( Frame, Slot, Value) :-
    parent( Frame, ParentFrame),
    value( ParentFrame, Slot, Value).
```

{ parent (lion, parentFrame), value (parentFrame, social_behavior, _1) }

ParentFrame = _2

{ parent (lion, _2), value (_2, social_behavior, _1) }

```
parent ( lion, _2 ) :-
(Query =.. [ lion, istance, _2 ];
Query =.. [ lion, subclass, _2 ]),
call (Query).
```

```
parent( Frame, ParentFrame) :-
    (Query =.. [Frame, instance, ParentFrame]
    ;
    Query =.. [Frame, subclass, ParentFrame]),
    call(Query).
```

BT

{ lion (istance, _2), value (_2, social_behavior, _1) } { lion (subclass, _2), value (_2, social_behavior, _1) }

BT

fail

lion(subclass, carnivorous)
_2 = carnivorous

{ value (carnivorous, social_behavior, _1) }

```
value( Frame, Slot, Value) :-
    Query =.. [ Frame, Slot, Value],
    call( Query),!.
```

Frame = carnivorous
Slot = social_behavior
Value = _1

BT

```
value( Frame, Slot, Value) :-
    parent( Frame, ParentFrame),
    value( ParentFrame, Slot, Value).
```

Frame = carnivorous,
Slot = social_behavior,
Value = _1

{ carnivorous (social_behavior, _1) }

BT

fail

{ parent (carnivorous, ParentFrame), value (ParentFrame, social_behavior, _1) }

ParentFrame = _3

```
parent ( carn., _3 ) :-
(Query =.. [carn, istance, _3];
Query =.. [carn, subclass, _3]),
call (Query).
```

```
parent( Frame, ParentFrame) :-
    (Query =.. [Frame, instance, ParentFrame]
    ;
    Query =.. [Frame, subclass, ParentFrame]),
    call(Query).
```

{ parent (carnivorous, _3), value (_3, social_behavior, _1) }

BT

BT

{ carnivorous (instance, _3), value (_3, social_behavior, _1) }

{ carnivorous (subclass, _3), value (_3, social_behavior, _1) }

BT

faill

carnivorous (subclass, mammal)
_3 = mammal

{ value (mammal, social_behavior, _1) }

```
value( Frame, Slot, Value) :-
    Query =.. [ Frame, Slot, Value],
    call( Query),!.
```

Frame = mammal,
Slot = social_behavior,
Value = _1

{ mammal (social_behavior, _1), ! }

mammal (social_behavior, social_animal)
_1 = social_animal

{ ! }

! be not allowed back trace on this branch process end

{ }

_1 = social_animal
X = _1 = social_animal