

Tracing Example

```
fleck@monsoon [105]% prolog
SICStus 3.8.7 (hppa-hpux-B.11.00): Tue Oct 23 11:53:33 EDT 2001
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| ?- consult(kennedy).
{consulting /group/class/c002/kennedy...}
{Warning: clauses for user:marriage/3 are not together}
{Warning: clauses for user:birth/5 are not together}
{consulted /group/class/c002/kennedy in module user, 60 msec 10216 bytes}
```

```
yes
| ?- consult(familial).
{consulting /group/class/c002/familial...}
{consulted /group/class/c002/familial in module user, 10 msec 1608 bytes}
```

```
yes
| ?- trace.
{The debugger will first creep -- showing everything (trace)}
```

```
yes
{trace}
| ?- grandFatherOf(grace_Allen,X).
1 1 Call: grandFatherOf(grace_Allen,_203) ? c
2 2 Call: parentOf(grace_Allen,_643) ? c
3 3 Call: fatherOf(grace_Allen,_643) ? c
4 4 Call: birth(_643,_1372,grace_Allen,_1374,_1375) ? c
4 4 Exit: birth(michael_Allen,kara_Kennedy,grace_Allen,female,(9,19,1994)) ? c
3 3 Exit: fatherOf(grace_Allen,michael_Allen) ? c
2 2 Exit: parentOf(grace_Allen,michael_Allen) ? c
5 2 Call: fatherOf(michael_Allen,_203) ? c
6 3 Call: birth(_203,_3121,michael_Allen,_3123,_3124) ? c
6 3 Fail: birth(_203,_3121,michael_Allen,_3123,_3124) ? c
5 2 Fail: fatherOf(michael_Allen,_203) ? c
2 2 Redo: parentOf(grace_Allen,michael_Allen) ? c
3 3 Redo: fatherOf(grace_Allen,michael_Allen) ? c
4 4 Redo: birth(michael_Allen,kara_Kennedy,grace_Allen,female,(9,19,1994)) ? c
4 4 Fail: birth(_643,_1372,grace_Allen,_1374,_1375) ? c
3 3 Fail: fatherOf(grace_Allen,_643) ? c
7 3 Call: motherOf(grace_Allen,_643) ? c
8 4 Call: birth(_1371,_643,grace_Allen,_1374,_1375) ? c
8 4 Exit: birth(michael_Allen,kara_Kennedy,grace_Allen,female,(9,19,1994)) ? c
7 3 Exit: motherOf(grace_Allen,kara_Kennedy) ? c
2 2 Exit: parentOf(grace_Allen,kara_Kennedy) ? c
9 2 Call: fatherOf(kara_Kennedy,_203) ? c
10 3 Call: birth(_203,_3121,kara_Kennedy,_3123,_3124) ? c
10 3 Exit: birth(edward_Kennedy,virginia_Bennett,kara_Kennedy,female,(2,27,1959)) ? c
9 2 Exit: fatherOf(kara_Kennedy,edward_Kennedy) ? c
1 1 Exit: grandFatherOf(grace_Allen,edward_Kennedy) ? c
```

X = edward_Kennedy ?