XQuodLibet

File Windows QML Miscellanea Help

XQuodLibet

Version 1.1 (June 1999)

A Tactic-Based Inductive Theorem Prover

Copyright © 1999 by Universität Kaiserslautern, Germany

kuehler@informatik.uni-kl.de

XQL: QuodLibet Log

File

QuodLibet Log

```
QL[13] assume
    #     { minus(x,y) < x, less(x,y) = true, y = 0 }
    #     minus-ind-lma

QL[14] apply lemma-subs
    #     minus-ind-lma
    #     [ ] ..
    #     div-def

QL[15] apply subst-add
    #     [ x <-- 0, y
    #     [ y <-- 0 ]
    #     [ x <-- s(x),
    #     ...
    #     minus-ind-lma

QL[16] apply axiom-subs
    #     less-1
    #     [ ] ..
    #     minus-ind-lma
```

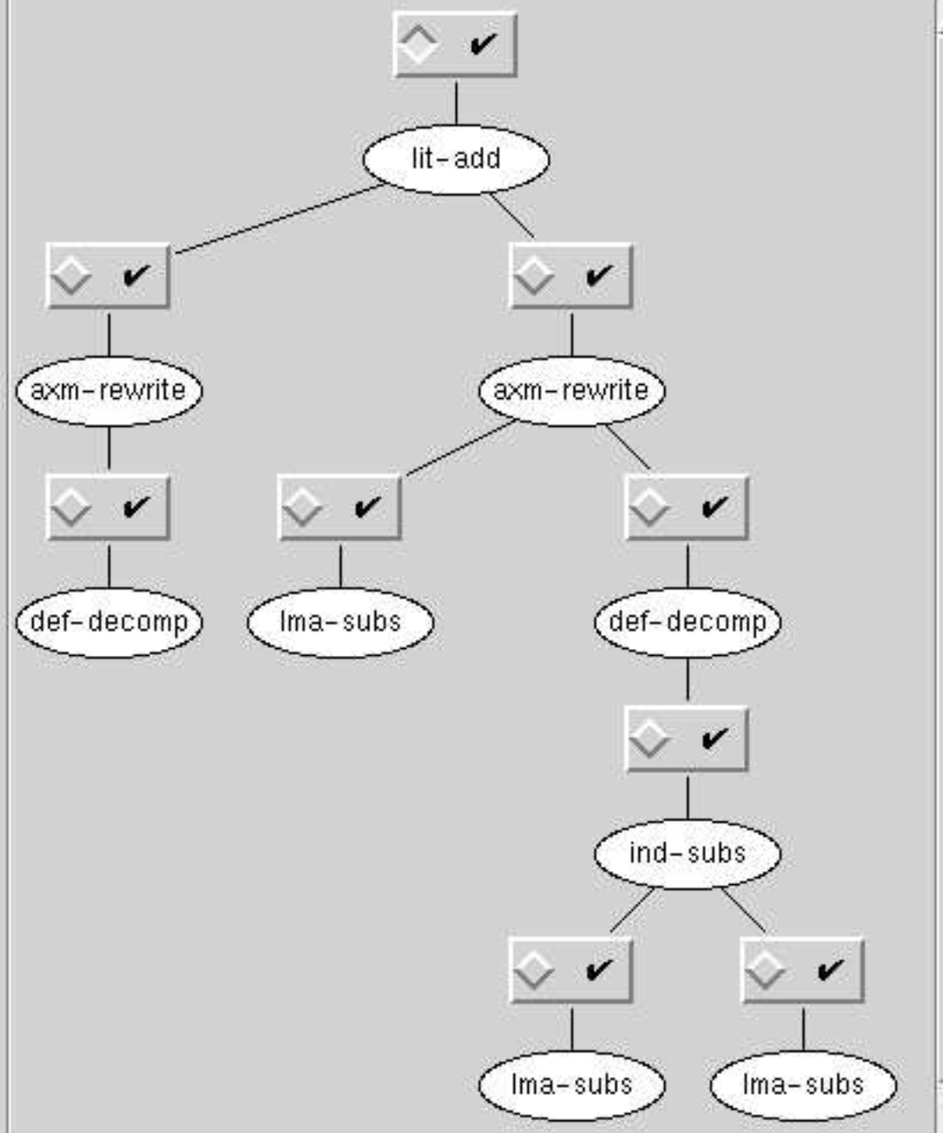
XQL: PS-Tree div-def

Window Inference Rules Tactics Commands

Current Goal Node

```
G-node root  "div-def"
 { def div(x,y),
   y = 0 } ;
 x
++ solved ++
```

Proof State Tree



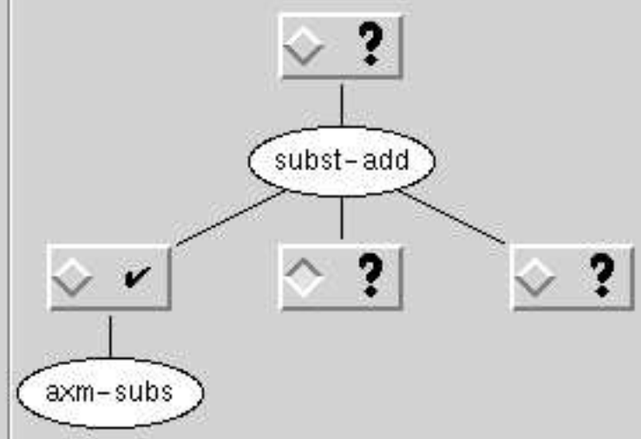
XQL: PS-Tree minus-ind-lma

Window Inference Rules Tactics Commands

Current Goal Node

```
G-node [1:2]
 { minus(x,0) < x,
   less(x,0) = true,
   0 = 0 } ;
 w_minus-ind-lma(x,0)
```

Proof State Tree



XQL: Pr

PS-Trees Windows View

Proof State Trees

```
++ less-def
++ minus-def
+  div-def
   minus-ind-lma
```

```
minus-ind-lma (not s
{ minus(x,y) < x,
  less(x,y) = true,
  y = 0 }
```

Defining Rules

```
less-1
less-2
less-3
minus-1
minus-2
div-1
div-2
```

```
div(x,y) = s(div
if
  y =/= 0,
  less(x,y) =/= t
  def less(x,y)
```

Add Defining Rule Delete Definin