

File Windows QML Miscellanea

QuodLibet Log

```
# [ y<--s(y),x<--s(x) ]
# ...
# minus-ind-lma
```

QL[31] call simplify-goal minus-ind-lma

Calling simplify-goal for [1^2] in minus-

Applying ==decomp to [1^2] in minus-ind-lma results in no further subgoals

Call of simplify-goal succeeds

The current PS-tree is minus-ind-lma

The current G-node in minus-ind-lma is [1

Runtime: 0.0 sec.

Done

QL[32]

XQL: Proof State Trees

PS-Trees Windows View

Proof State Trees

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

minus-ind-lma (not solved):

```
{ minus(x,y) < x,
  less(x,y) = true,
  y = 0 }
```

XQL: Defining Rules

Defining Rules

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

div(x,y) = s(div(minus(x,y),y))

if

```
y /= 0,
less(x,y) /= true,
def less(x,y)
```

Add Defining Rule Delete Defining Rule

XQL: PS-Tree minus-ind-lma

Window Inference Rules Tactics Commands

Root GNode Last GNode Current GNode Open G

Current Goal Node

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

Proof State Tree

XQL: PS-Tree div-def

Window Inference Rules Tactics Commands

Root GNode Last GNode Current GNode Next Open GNode

Current Goal Node

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

Proof State Tree