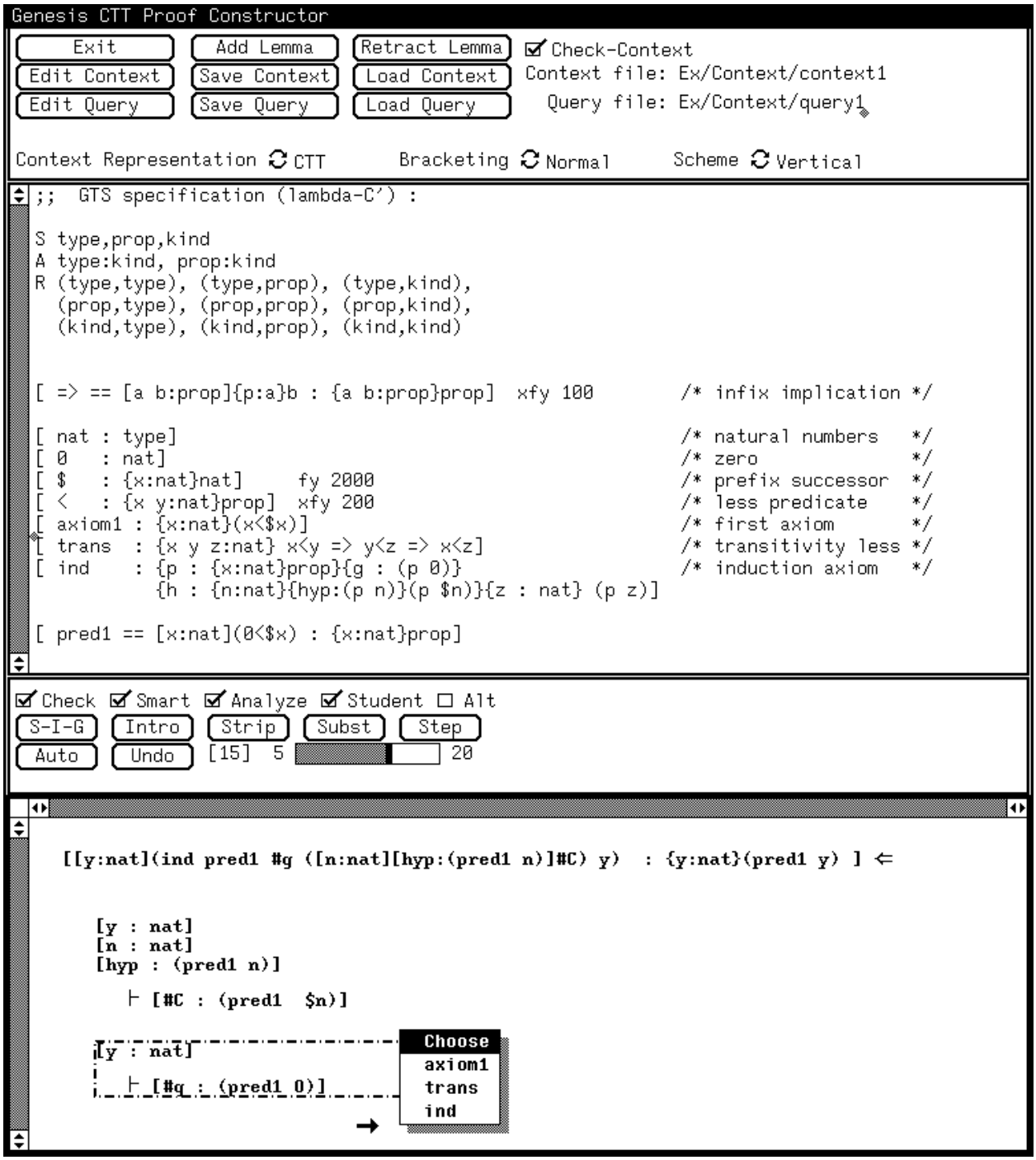
Genesis CTT Proof Constructor
Exit
Add Lemma
Retract Lemma
Check-Context
Edit Context
Save Context
Load Context
Context file: Ex/Context/context1
Edit Query
Save Query
Load Query
Query file: Ex/Context/query1
Context Representation CTT
Bracketing Normal
Scheme Vertical
;; GTS specification (lambda-C') :
S type,prop,kind
A type:kind, prop:kind
R (type,type), (type,prop), (type,kind),
(prop,type), (prop,prop), (prop,kind),
(kind,type), (kind,prop), (kind,kind)
[=> == [a b:prop]{p:a}b : {a b:prop}prop] xfy 100 /* infix implication */
[nat : type] /* natural numbers */
[0 : nat] /* zero */
[$: {x:nat}nat] fy 2000 /* prefix successor */
[< : {x y:nat}prop] xfy 200 /* less predicate */
[axiom1 : {x:nat}(x<$x)] /* first axiom */
[trans : {x y z:nat} x<y => y<z => x<z] /* transitivity less */
[ind : {p : {x:nat}prop}{g : (p 0)} /* induction axiom */
{h : {n:nat}{hyp:(p n)}(p $n)}{z : nat} (p z)]
[pred1 == [x:nat](0<$x) : {x:nat}prop]
Check
Smart
Analyze
Student
Alt
S-I-G
Intro
Strip
Subst
Step
Auto
Undo
[15] 5
20
[[y:nat](ind pred1 #g ([n:nat][hyp:(pred1 n)]#C) y) : {y:nat}(pred1 y)] ⇐
[y : nat]
[n : nat]
[hyp : (pred1 n)]
⊢ [#C : (pred1 $n)]
[y : nat]
⊢ [#q : (pred1 0)]
Choose
axiom1
trans
ind