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ma-single-pre-init1_wf  THM

⊢  ∀T,T':Type, x:Id, c:T, a:Id, P:(T→T'→Prop).
|  ma-single-pre-init1(x;T;c;a;T';x,v.P(x,v)) ∈ MsgA
| by Auto THEN Unfold ‘ma-single-pre-init1‘ 0 THEN Analyze
|    THEN
|    Try (Complete Auto)
|    THEN
|    Analyze
|    THEN
|    Try (Complete Auto)
|
|\
| .....subterm .....
| 1. T : Type
| 2. T' : Type
| 3. x : Id
| 4. T
| 5. Id
| 6. P : T→T'→Prop
| 7. s : State(x : T)
| ⊢  (λv.P(s(x),v)) ∈ T'→Prop
| | by GenConcl (s(x) = z) THEN Try (Complete Auto)
| |
| .....wf .....
| 1. T : Type
| 2. T' : Type
| 3. x : Id
| 4. T
| 5. Id
| 6. T→T'→Prop
| 7. s : State(x : T)
| ⊢  s(x) ∈ T
|   by Repeat
|      (Unfolds [‘fpf-single‘;‘fpf-dom‘;‘fpf-cap‘;‘fpf-ap‘;‘ma-state‘]
|       -1
|       THEN
|       Reduce -1)
|      THEN
|      DoSubsume
|      THEN
|      RWO
|      Thm* ∀d:EqDecider(A), i:A. (eqof(d)(i,i)) ∼ true₂
|      {eqof_eq_btrue}
|      0
|      THEN
|      Reduce 0
|      THEN
|      Analyze 0
|
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. .....implicit subterm .....
. 1. T : Type
. 2. T' : Type
. 3. x : Id
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. 4. T
. 5. Id
. 6. T→T'→Prop
. ⊢  (λx@0.x : T(x@0)?Void) ∈ Id→Type
.   by AssertBY (Void ∈ Type) Auto
.      THEN
.      Repeat
.      (Unfolds [‘fpf-single‘;‘fpf-dom‘;‘fpf-cap‘;‘fpf-ap‘] 0
.       THEN
.       Reduce 0)
END
```