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sigma_decls_mng_functionality  THM

⊢  ∀d1,d2:Collection(dec()), rho:Decl, u:(Σ[[d1]] rho).
|  d1 = d2 ⇒ u ∈ (Σ[[d2]] rho)
| by Auto THEN D (-2) THEN BackThruLemma ‘sigma_decls_mng2‘ THEN Auto
|
.....wf .....
1. d1 : Collection(dec())
2. d2 : Collection(dec())
3. rho : Decl
4. l : Label
5. u1 : decl_type([[d1]] rho;l)
6. d1 = d2
⊢  u1 ∈ [[dec_lookup(d2;l)]] rho
| by Unfold ‘sts_mng‘ 0 THEN MemTypeCD THEN Auto THEN D (-1)

|    THEN Unfolds ‘‘decl_type‘‘ (-4) THEN Reduce (-4)
|
|
1. d1 : Collection(dec())
2. d2 : Collection(dec())
3. rho : Decl
4. l : Label
5. u1 : [[d1]] rho(l)
6. d1 = d2
7. x : SimpleType
8. x ∈ dec_lookup(d2;l)
⊢  u1 ∈ [[x]] rho
| by Using [‘ds’,d1; ‘x’,l
|    ] (BackThruLemma ‘decls_mng_subtype‘) THEN Auto
|
1. d1 : Collection(dec())
2. d2 : Collection(dec())
3. rho : Decl
4. l : Label
5. [[d1]] rho(l)
6. d1 = d2
7. x : SimpleType
8. x ∈ dec_lookup(d2;l)
⊢  mk_dec(l, x) ∈ d1  by RW (SweepDnC (RevHypC (-3))) (-1) THEN Auto
|
1. d1 : Collection(dec())
2. d2 : Collection(dec())
3. rho : Decl
4. l : Label
5. [[d1]] rho(l)
6. d1 = d2
7. x : SimpleType
8. x ∈ dec_lookup(d1;l)
⊢  mk_dec(l, x) ∈ d1  by RW0 "member_dec_lookup" (-1) THEN Auto
END
```