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w-kind_wf  THM

⊢  ∀the_w:World, i:Id, a:Action(i). ¬isnull(a) ⇒ kind(a) ∈ Knd
| by All_Wld
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| 1. T : Id→Id→Type
| 2. TA : Id→Id→Type
| 3. M : IdLnk→Id→Type
| 4. i:Id→ℕ→(x:Id→T(i,x))
| 5. i:Id→ℕ→action(w-action-dec(TA;M;i))
| 6. i:Id→ℕ→({m:Msg(M)| source(mlnk(m)) = i } List)
| 7. Top
| 8. i : Id
| 9. a@0 : action(w-action-dec(TA;M;i))
| 10. ¬isl(a@0)
| ⊢  1of(outr(a@0)) ∈ Knd
|   by Analyze -2 THEN All Reduce THEN Analyze -1
|
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. .....subterm .....
. 1. T : Id→Id→Type
. 2. TA : Id→Id→Type
. 3. M : IdLnk→Id→Type
. 4. i:Id→ℕ→(x:Id→T(i,x))
. 5. i:Id→ℕ→action(w-action-dec(TA;M;i))
. 6. i:Id→ℕ→({m:Msg(M)| source(mlnk(m)) = i } List)
. 7. Top
. 8. i : Id
. 9. a@0 : action(w-action-dec(TA;M;i))
. ⊢  isl(a@0) ∈ 𝔹  by Analyze -1 THEN All Reduce
END
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