```
d-realizes_wf  THM

⊢  ∀D:Dsys, P:({es:ES| es is an event system of D }→Prop).
|  D realizes es.P(es) ∈ Prop  by Unfold ‘d-realizes‘ 0
|
.....subterm .....
1. D : Dsys
2. {es:ES| es is an event system of D }→Prop
3. D’ : Dsys
4. D ⊆ D’
5. w : World
6. p : FairFifo
7. PossibleWorld(D’;w)
⊢  ES(w) ∈ {es:ES| es is an event system of D }  by Analyze
|
.....set predicate .....
1. D : Dsys
2. {es:ES| es is an event system of D }→Prop
3. D’ : Dsys
4. D ⊆ D’
5. w : World
6. p : FairFifo
7. PossibleWorld(D’;w)
⊢  ES(w) is an event system of D
| by Unfold ‘d-es‘ 0 THEN InstConcl [w;p]
|
1. D : Dsys
2. {es:ES| es is an event system of D }→Prop
3. D’ : Dsys
4. D ⊆ D’
5. w : World
6. FairFifo
7. PossibleWorld(D’;w)
⊢  PossibleWorld(D;w)
  by Inst
     Thm* ∀A,B:Dsys.
          A ⊆ B
          ⇒
          (∀w:World. PossibleWorld(B;w) ⇒ PossibleWorld(A;w))
     {possible_DASH_world_DASH_monotonic}
     [D;D’;w]
END
```