

Eval^{11,40}

EventsWithValues

```

≡def E:Type
  × (eq:EqDecider(E)
  × pred?:(E→(?E))
  × info:(E→((:Id × Id) + (:IdLnk × E) × Id)))
  × oaxioms:EOrderAxioms(E; pred?; info)
  × T:(Id→Id→Type)
  × when:(x:Id→e:E→T(loc(e),x))
  × after:(x:Id→e:E→T(loc(e),x))
  × sxiom:(∀e:E. (¬(↑first(e))) ⇒ (∀x:Id. when(x,e) = after(x,pred(e))))
  × V:(Knd→Id→Type)
  × (val:(e:E→V(kind(e),loc(e)))
  × Top))

```

clarification:

EventsWithValues{i}

```

≡def E:Type{i}
  × (eq:EqDecider(E)
  × pred?:(E→(E + Unit))
  × info:(E→((:Id × Id) + (:IdLnk × E) × Id)))
  × oaxioms:EOrderAxioms{i}(E;
    pred?;
    info)
  × T:(Id→Id→Type{i})
  × when:(x:Id→e:E→T(loc(info;e),x))
  × after:(x:Id→e:E→T(loc(info;e),x))
  × sxiom:(∀e:E.
    (¬(↑first(pred?;e)))
    ⇒ (∀x:Id. when(x,e) = after(x,pred(pred?;e)) ∈ T(loc(info;e),x)))
  × V:(Knd→Id→Type{i})
  × (val:(e:E→V(kind(info;e),loc(info;e)))
  × Top))

```