

Encoding Structural Equality in CaPriCon

Marc Coiffier

Contents

```
'utils require import
```

- Required module: [utils](#)

```
Type 'A -> A 'x ->
```

```
'Eq_context { A 'a -> Type ? '.Eq -> .Eq ( x ) '.refl -> } def
```

```
'Eq A 'y -> Eq_context .Eq ( y ) ? ? "x = y" defconstr !
```

```
'refl Eq_context .refl ! ! "refl x" defconstr
```

The type of $\lambda(y : A)(e : x = y).\mu(e)$ is $\forall(y : A)(e : x = y)(Eq^P : \forall(a : A), x = a \rightarrow Set_1, Eq^P x(refl\ x) \rightarrow Eq^P y e)$.

```
2 lambdas [ 'Eq 'refl ] { export } each
```