```
PairwiseExtension (∘, ⊙, E, C): trait
  % Induce a binary operator on containers
  % from a binary operator on elements.
  assumes Container (E, C)
  introduces
    __∘ __: E, E → E
    __⊙ __: C, C → C
  asserts ∀ e1, e2: E, c1, c2: C
    empty ⊙ empty == empty;
    (c1 ≠ empty ∧ c2 ≠ empty)
      ⇒ c1 ⊙ c2 = insert(head(c1) ∘ head(c2),
                              tail(c1) ⊙ tail(c2));
  implies converts ⊙
    exempting ∀ e: E, c: C
      empty ⊙ insert(e, c), insert(e, c) ⊙ empty
```