```
FPAssumptions (smallest, largest,
               gap, rational): trait
  includes Rational
  introduces
    smallest, largest, gap: → Q
    rational: F → Q
    float: Q → F
    0, 1: → F
  asserts ∀ f: F
    smallest > 0;
    largest > smallest;
    rational(0) == 0;
    rational(1) == 1;
    rational(f) ≠ 0 ⇒ abs(rational(f)) ≥ smallest;
    rational(f) ≤ largest;
    gap > 0;
    float(rational(f)) == f;
```