## **Core Language**

## **Module Language**

```
program = toplevel-binding
                   . . .
toplevel-binding = (define-signature id = sig-expr)
                 | (define-module id = mod-expr)
       sig-expr = id
                 sig sig-component ...)
                 (\Pi (\{id : sig-expr\}) sig-expr)
                 (let ([id mod-expr]) sig-expr)
       mod-expr = id
                  (mod core-def ...)
                  (seal mod-expr :> sig-expr)
                 (mod-expr mod-expr)
                 | (\lambda (\{id : sig-expr\}) \mod-expr) |
                 (let ([id mod-expr]) mod-expr)
  sig-component = (type id)
                 (type id = core-type)
                 (val id : core-type)
```