

## component-realizes<sup>11,40</sup>

$$\begin{aligned} C &|- es, in, out. P(es; in; out) \\ \equiv_{\text{def}} & \forall X: \text{Interface}(ds; da; A). \\ & \text{let } R, Y = (C(X)) \text{ in } R \text{ |- } es. \text{es-decl}(es; ds; da) \Rightarrow P(es; [[X]]; [[Y]]) \end{aligned}$$

*clarification:*

$$\begin{aligned} & \text{component-realizes}\{i:l\} \\ & \quad (ds; da; A; B; C; es, in, out. P(es; in; out)) \\ \equiv_{\text{def}} & \forall X: \text{Interface}(ds; da; A). \\ & \text{let } R, Y = (C(X)) \\ & \text{in} \\ & \quad \text{scheme-realizes}\{i:l\} \\ & \quad \quad (R; \\ & \quad \quad \quad es. (\text{es-decl}(es; ds; da) \\ & \quad \quad \quad \Rightarrow P(es; \text{abs-interface}(es; X); \text{abs-interface}(es; Y)))) \end{aligned}$$