assign:  $(sd:SD) \rightarrow (sd':SD) \rightarrow (S \Rightarrow_s Compl) sd$  $\rightarrow sd \leq_c sd' \rightarrow R sd' \rightarrow L sd'$ assign  $\langle f, d \rangle \langle f', d' \rangle \beta sd \leq_s sd' r \text{ with } (\leq \text{-compare } \{\text{suc } d\} \{d'\})$ ... | leq  $\delta_1 \leq \delta_2$ = assign-dec  $((d' - (\operatorname{suc} d)) \delta_1 \leq \delta_2) (-\rightarrow \leq \delta_1 \leq \delta_2)$ (I-var  $\langle f, d \rangle$  $(sd \leq sd' \rightarrow sd \leq sd' - [d' - [suc - d]] sd \leq sd' \delta_1 \leq \delta_2)$  $(\beta ((sd \leq sd' \rightarrow sd \leq sd' - [d' - [suc - d]] sd \leq sd' \delta_1 \leq \delta_2))$ (s-I (I-var  $\langle f, d \rangle$  $((sd \leq_s sd' \rightarrow sd \leq_s sd' -_s [d' - [suc - d]] sd \leq_s sd' \delta_1 \leq \delta_2)))))$ ... | geq  $\delta_2 \leq \delta_1$  = assign-inc (((suc d) – d')  $\delta_2 \leq \delta_1$ )  $(l\text{-var }\langle f, d \rangle (\leq_s\text{-trans } sd\leq_s sd' +_s \rightarrow \leq_s)) r$  $(\beta ((\leq_{s}\text{-trans } sd\leq_{s}sd'+_{s}\rightarrow\leq_{s}))$  $(s-1 (l-var \langle f, d \rangle ((\leq_s-trans sd\leq_s sd' +_s \rightarrow \leq_s)))))$