

assert-es-bact^{11,40}

$$\begin{aligned}
& \forall ds:\text{fpf}(\text{Id}; x.\text{Type}), da:\text{fpf}(\text{Knd}; k.\text{Type}), a:\text{ecl}(ds; da), es:\text{event_system}\{i:l\}, i:\text{Id}. \\
& (\forall x:\text{Id}. \text{subtype_rel}(\text{es-vartype}(es; i; x); \text{fpf-cap}(ds; \text{id-deq}; x; \text{top}))) \\
& \Rightarrow (\forall e:\text{es-E}(es). \\
& \quad (\text{loc}(e) = i) \Rightarrow \text{subtype_rel}(\text{es-valtype}(es; e); \text{ma-valtype}(da; \text{es-kind}(es; e)))) \\
& \Rightarrow (\forall n:\mathbb{N}, e_1, e_2:\{e:\text{es-E}(es) \mid \text{loc}(e) = i\} . \\
& \quad (\uparrow\text{es-bact}\{i:l\}(ds; da; a; es; n; e_1; e_2)) \iff (\text{ecl-es-act}(es; n; a)(e_1, e_2)))
\end{aligned}$$