

ecl-es-act-ecl-act^{0,22}

$\forall ds:x:\text{Id} \text{ fp} \rightarrow \text{Type}, da:k:\text{Kind} \text{ fp} \rightarrow \text{Type}, x:\text{ecl}(ds;da), es:\text{ES}, i:\text{Id}.$
 $(\forall x:\text{Id}. \text{vartype}(i;x) \subseteq \rho \text{ ds}(x)?\text{Top})$
 $\Rightarrow (\forall e:\text{E}. \text{loc}(e) = i \Rightarrow \text{valtype}(e) \subseteq \rho \text{ Valtype}(da;\text{kind}(e)))$
 $\Rightarrow (\forall n:\mathbb{N}, e_1, e_2:\{e:\text{E} \mid \text{loc}(e) = i \}.$
 $\quad \text{ecl-es-act}(es;n;x)(e_1,e_2) \Leftrightarrow \text{ecl-act}(ds;da;n;x)(\text{es-hist}\{i:l\}(es;e_1;e_2)))$