Berechnen der Adreßumgebung

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$elab\_def\ (\textbf{class}\ c\ \textbf{extends}\ s\ \{b\}) = elab\_def\ b\ \emptyset\ 0\ 0\ 0$

$elab\_def\ c_1;c_2\ \rho\ nav\ nas\ loc =$
$\quad \textbf{let}\ (\rho', nav', nas', loc') = elab\_def\ c_1\ \rho\ nav\ nas\ loc$
$\quad \textbf{in}\ elab\_def\ c_2\ \rho'\ nav'\ nas'\ loc'\ \textbf{end}$

$elab\_def\ (\textbf{static}\ t\ x{=}init)\ \rho\ nav\ nas\ loc =$
$\quad (\rho[\,(t, nas)/x\,], nav, nas + size\_of(t), loc)$

within a class:
$elab\_def\ (t\ x{=}init)\ \rho\ nav\ nas\ loc =$
$\quad (\rho[\,(t, nav)/x\,], nav + size\_of(t), nas, loc)$

within a method:

$$elab\_def\,(t\ x{=}init)\ \rho\ nav\ nas\ loc =$$
$$(\rho[\,(t,loc)/x\,], nav, nas, loc + size\_of(t))$$

$$elab\_def\,(\textbf{static}\ t\ m(t_1\ p_1,\ldots,t_k\ p_k)\ \{b\})\ \ \rho\ nav\ nas\ loc =$$
$$\textbf{let}\ (\rho', nav', nas', loc') = elab\_def\ b\ \rho[\,(t_i, i-1)/p_i\,]\ 0\ 0\ k$$
$$\textbf{in}\ (\rho[\,(t, loc', \rho')/m(t_1,\ldots,t_k)\,], nav, nas, loc)\ \textbf{end}$$

$$elab\_def\,(t\ m(t_1\ p_1,\ldots,t_k\ p_k)\ \{b\})\ \ \rho\ nav\ nas\ loc =$$
$$\textbf{let}\ (\rho', nav', nas', loc') = elab\_def\ b\ \rho[\,(t_i, i)/p_i\,]\ 0\ 0\ k+1$$
$$\textbf{in}\ (\rho[\,(t, loc', \rho')/m(t_1,\ldots,t_k)\,], nav, nas, loc)\ \textbf{end}$$

For all other cases we have: $elab\_def\,(\_)\ \rho\ nav\ nas\ loc = (\rho, nav, nas, loc)$