section *typechecker_speed* **parents** *standard_toolkit*

$$
\begin{array}{|l}
\hline
\underline{~S1~} \\
\quad a, b, c, d, e, f, g, h, i, j : \mathbb{N} \\
\hline
\quad a + b < c * d * e;\ f + g < h * i * j \\
\hline
\end{array}
$$

$$
\begin{array}{|l}
\hline
\underline{~S1a~} \\
\quad S1;\ S1_1;\ (S1 \wedge S1')[x/a, x'/a']_1 \\
\hline
\quad a = a_1 \\
\hline
\end{array}
$$

$$
\begin{array}{|l}
\hline
\underline{~S2~} \\
\quad S1;\ S1_1;\ S1_2;\ S1_3;\ S1_4;\ S1_5;\ S1_6;\ S1_7;\ S1_8;\ S1_9 \\
\hline
\quad \theta\,(S1_1) = \theta\,(S1_1) \\
\hline
\end{array}
$$