```
/* The second Glue proof for the Traffic Control CPS, for the Speed Limit Control Program.*/
\functions {
\programVariables {
}
\problem {
 (\forall {\sf R} x1 . \forall {\sf R} v1 . \forall {\sf R} a1 . \forall {\sf R} vs1 .\forall {\sf R} xs1 .\forall {\sf R} B .
\forall R A. \forall R ep.
\forall R xj. \forall R vj. \forall R aj. \forall R sl. \forall R slPos . \forall R MAXBREAK
 . \forall R MAXACCEL . \forall R TICK.
 (x1 - 1 < xj & xj <= x1 & (x1 >= 0 -> xj >= 0) & (x1 < 0 -> xj <0) &
v1 - 1 < vj & vj <= v1 & (v1 >= 0 -> vj >= 0) & (v1 < 0 -> vj <0) &
a1 - 1 < aj \& aj <= a1 \& (a1 >= 0 -> aj >= 0) \& (a1 < 0 -> aj <0) &
vsl - 1 < sl \& sl <= vsl \& (vsl >= 0 -> sl >= 0) \& (vsl < 0 -> sl < 0) &
xsl - 1 < slPos & slPos <= xsl & (xsl>= 0 -> slPos >= 0) & (xsl < 0 -> slPos <0) & (xsl < 0 -> slPos
-B + 1 > MAXBREAK & MAXBREAK >= -B & (-B >= 0 -> MAXBREAK >= 0) & (-B < 0 -> MAXBREAK < 0) & */
A-1 < MAXACCEL & MAXACCEL <= A & (A >= 0 -> MAXACCEL >= 0) & (A < 0 -> MAXACCEL <0) &
TICK = ep & ep = 2 & vj >= 0 & v1 >= 0 & B > 0 & MAXACCEL >= 0 & xj >= 0 & x1 >= 0 & s1 >= 0 &
vsl >= 0 \& (x1 >= xsl -> v1 <= vsl) \& (xj >= slPos -> vj <= sl)) ->
 (sl >= 0 &
 (sl < (vj +1) -> (slPos >= xj+1 + ((vj+1)^2) + ((MAXACCEL+1) + 1) * ((MAXACCEL+1) *TICK^2 + (vj +1) -> (slPos >= xj+1 + ((vj+1)^2) + ((MAXACCEL+1) + 1) * 
TICK*(vj+1)))) &
 (sl >= vj-1 -> (aj <= ((sl - vj) / TICK) - 2))) ->
 (vsl < v1 -> xsl >= x1 + (v1^2) + (A + 1) * (A * ep^2 + ep * v1)) &
 (vsl >= v1 -> a1 <= (vsl - v1) / ep)))))
```