| IMP-FL     |   |
|------------|---|
|            | IMP-FL-SYNTAX  AX   |
| SYNTA      | emptyIds#<br>  consIds#ee<br>  skip#  |
| END MOD    | Bool  |
|            | GURATION:   |
|            | \$PGM •Map  |
| RULE       | $\frac{k  \text{div\#ee}(E1,E2) \curvearrowright K}{\text{when 'notBool('isKResult}(E1))}$  |
| RULE       |   |
|            | $k$ $E2 \curvearrowright \text{div#eH}(E1) \curvearrowright K$  |
| RULE       |   |
| DIVI E     | $div\#ee(V,E) \curvearrowright K$   |
| RULE       |   |
| RULE       |   |
|            | $k$ $E1 \curvearrowright plus\#He(E2) \curvearrowright K$   |
| RULE       |   |
| RULE       |   |
|            |   |
| RULE       | $V \curvearrowright plus\#eH(E) \curvearrowright K $ when 'isKResult( $V$ )   |
| RULE       | $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$  |
|            | $ \begin{array}{c c} & & \\ \hline E1 \curvearrowright le\#He(E2) \curvearrowright K \end{array} $  |
| RULE       |   |
| RULE       |   |
|            | $egin{array}{ c c c c c c c c c c c c c c c c c c c$  |
| RULE       |   |
|            | $not \# e(V) \curvearrowright K$  |
| RULE       |   |
| RULE       |   |
|            |   |
| RULE       |   |
| RULE       |   |
|            |   |
| RULE       | $ \begin{array}{c} \text{ite\#eee}(E,S1,S2)\curvearrowright K \\ \hline \\ k \\ \hline \\ E\curvearrowright \text{ite\#Hee}(S1,S2)\curvearrowright K \\ \end{array} $ when 'notBool('isKResult}(E)) |
| RULE       | $ \begin{array}{c c} & & \\ \hline & & \\ \hline & V \curvearrowright ite\#Hee(S1,S2) \curvearrowright K \end{array} \qquad \text{when 'isKResult}(V) $   |
|            |   |
| RULE       | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   |
|            | $I \curvearrowright K \qquad EL \ X \mapsto I \ ER$   |
|            | T k env   |
| RULE       |   |
|            | $K$ $EL \ X \mapsto I \ ER$   |
| RULE       |   |
| RULE       |   |
|            | $I1 \div_{Int} I2 \curvearrowright K$   |
| RULE       | $ \begin{array}{c c}  & k \\  & \text{le#ee}(I1, I2) \curvearrowright K \end{array} $   |
| RULE       |   |
|            | $igcellsymbol{k} igcap_{Bool} B \curvearrowright K$   |
| RULE       |   |
| RULE       | $ \begin{array}{c} B \curvearrowright K \\ \hline \text{and} \# \text{ee}(\text{false},) \curvearrowright K \end{array} $   |
| KOLL       | $\frac{k}{false \curvearrowright K}$  |
| RULE       | $\frac{\int_{k}^{k} skip\#(\bullet_{ListK}) \curvearrowright K}{k}$   |
|            |   |
| RULE       | $ \underbrace{\begin{array}{c} seq\#ee(E1,E2) \curvearrowright K \\ k \\ E1 \curvearrowright E2 \curvearrowright K \end{array}} $   |
| RULE       | ite#eee(true, $E1, E2) \curvearrowright K$  |
|            | $E1 \curvearrowright K$   |
| RULE       | ite#eee(false, $E1, E2) \curvearrowright K$ $E2 \curvearrowright K$   |
| RULE       |   |
|            |   |
| RULE       |   |
|            | $ \begin{array}{c c}  & \\  & \\  & \\  & \\  & \\  & \\  & \\  & $   |
| RULE       |   |
| END MODULE |   |