

$$\begin{aligned}
& + \sum_T YE(K, S, X, T) * RS(S, X, 1) \\
& \quad * (PRO(K, X) * WE(K, S, X, T, 0) + PROS(K, X) * WE(K, S, X, T, 1)) \\
& + \sum_{XX} F(K-1, S, X-1, XX, 1, 1) * Q(K, S, X, 1) * RS(S, X, 1) \\
& \quad * (1 + RV(K, X)) * TMRV(K, X, V+1) \\
& + F(K-1, S, X-1, 0, 5, 1) * Q(K, S, X, 1) * RS(S, X, 1) \\
& \quad * (1 + RV(K, X)) * TMRV(K, X, V+1) \\
& + \sum_{XX} F(K-1, S, X-1, XX, 3, 1) * Q(K, S, X, 1) * RS(S, X, 1) \\
& \quad * (1 + RV(K, X)) * TMRV(K, X, V+1) \\
& + F(K-1, S, X-1, 0, 7, 1) * Q(K, S, X, 1) * RS(S, X, 1) \\
& \quad * (1 + RV(K, X)) * TMRV(K, X, V+1) \\
& + F(K-1, S, X-1, 0, 9, 1) * Q(K, S, X, 2) * RS(S, X, 2) \\
& \quad * \frac{CL(S, 1) + CL(S, 2)}{CL(S, 1) * 1.25 + CL(S, 2)} * (1 + RV(K, X)) * TMRV(K, X, V+1) \\
& + F(K-1, S, X-1, 0, 10, 1) * Q(K, S, X, 2) * RS(S, X, 2) \\
& \quad * \frac{CL(S, 1) + CL(S, 2)}{CL(S, 1) * 1.25 + CL(S, 2)} * \frac{7.125/1000}{9.5/1000} * \frac{25}{20} \\
& \quad * (1 + RV(K, X)) * TMRV(K, X, V+1) \quad)
\end{aligned}$$

$$FN(K, S, V, 0, 11, 1) = (1 - \alpha) * \frac{3}{4} *$$

$$(\sum_T Y1(K, S, X, T) * RS(S, X, 1)$$

$$\begin{aligned}
& *_{\max} \left(\left(\frac{7.125}{1000} * W(K, S, X, T, 0) \right. \right. \\
& \quad \left. \left. + \frac{5.481}{1000} * \left(W(K, S, X, T, 1) - \frac{1}{2} * BB(K, S, X, T) * CHT(K, X) \right) \right) \right. \\
& \quad \left. * \frac{25}{\min(25, Z(K, S, X, T, 0) - \frac{1}{2})} \right), \\
& PRO(K, X) * W(K, S, X, T, 0) \\
& \quad \left. + PROS(K, X) * \left(W(K, S, X, T, 1) - \frac{1}{2} * BB(K, S, X, T) * CHT(K, X) \right) \right)
\end{aligned}$$