

Sample outcome from SFEcon's general price equilibrium algorithm:

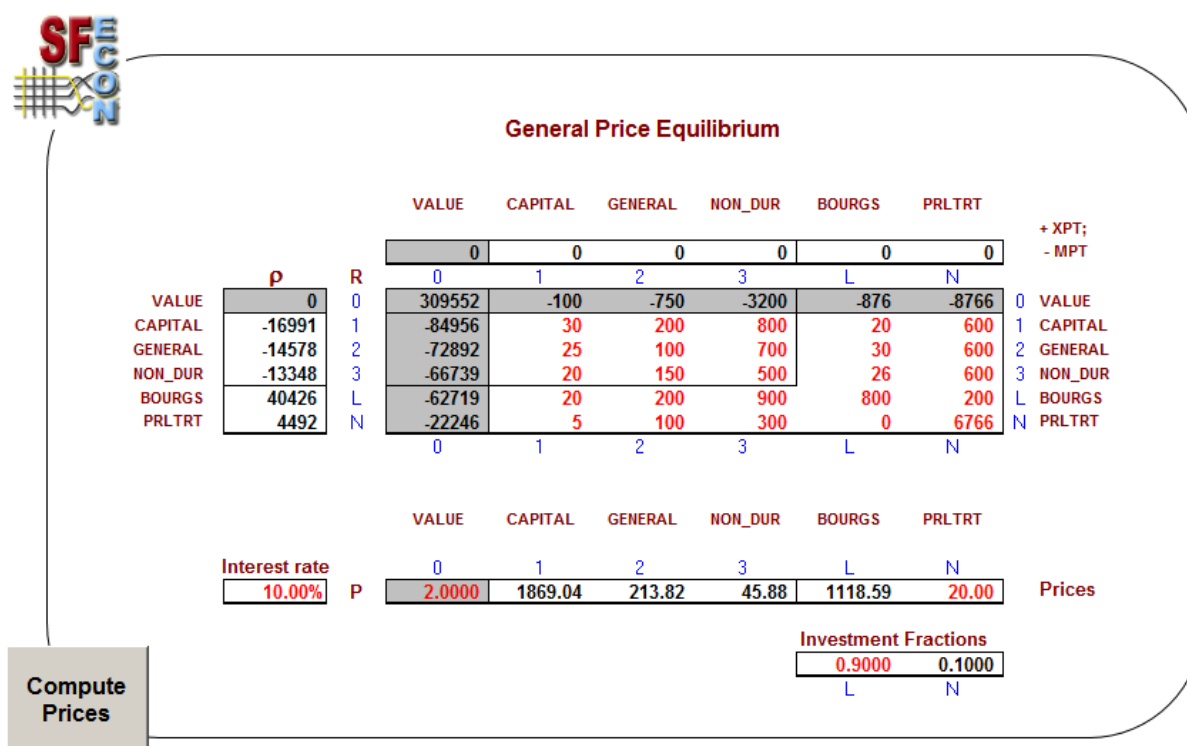


Fig. 1

Profits ρ earned by industrial sectors 1, 2, & 3 . . .

1. total the shortfall ρ of wages to cover consumption by household sectors L & N that must be made up by passive investment income; and
2. equal the interest rate times the money equivalent of a sector's physical asset turnover.

$$\begin{array}{c}
 1 \\
 2 \\
 3 \\
 L \\
 N
 \end{array}
 \begin{pmatrix}
 R_{11} - Y_1 & R_{12} & R_{13} & R_{1L} & R_{1N} \\
 R_{21} & R_{22} - Y_2 & R_{23} & R_{2L} & R_{2N} \\
 R_{31} & R_{32} & R_{33} - Y_3 & R_{3L} & R_{3N} \\
 R_{L1} & R_{L2} & R_{L3} & R_{LL} - \tau_L & R_{LN} \\
 R_{N1} & R_{N2} & R_{N3} & R_{NL} & R_{NN} - \tau_N
 \end{pmatrix}
 \times
 \begin{pmatrix}
 P_1 \\
 P_2 \\
 P_3 \\
 P_L \\
 P_N
 \end{pmatrix}
 =$$

Fig. 2

$$-\mathbf{1} \times
 \begin{pmatrix}
 \left\{ -P_1 R_{11} \quad -P_2 R_{12} \quad -P_3 R_{13} \quad -P_L R_{1L} \quad -P_N R_{1N} \right\} \\
 \left\{ -P_1 R_{21} \quad -P_2 R_{22} \quad -P_3 R_{23} \quad -P_L R_{2L} \quad -P_N R_{2N} \right\} \\
 \left\{ -P_1 R_{31} \quad -P_2 R_{32} \quad -P_3 R_{33} \quad -P_L R_{3L} \quad -P_N R_{3N} \right\} \\
 \left\{ +P_1 \begin{pmatrix} R_{11}^+ \\ R_{21}^+ \\ R_{31}^+ \end{pmatrix} + P_2 \begin{pmatrix} R_{12}^+ \\ R_{22}^+ \\ R_{32}^+ \end{pmatrix} + P_3 \begin{pmatrix} R_{13}^+ \\ R_{23}^+ \\ R_{33}^+ \end{pmatrix} + P_L \begin{pmatrix} R_{1L}^+ \\ R_{2L}^+ \\ R_{3L}^+ \end{pmatrix} + P_N \begin{pmatrix} R_{1N}^+ \\ R_{2N}^+ \\ R_{3N}^+ \end{pmatrix} \right\} \times C_L \\
 \left\{ +P_1 \begin{pmatrix} R_{11}^+ \\ R_{21}^+ \\ R_{31}^+ \end{pmatrix} + P_2 \begin{pmatrix} R_{12}^+ \\ R_{22}^+ \\ R_{32}^+ \end{pmatrix} + P_3 \begin{pmatrix} R_{13}^+ \\ R_{23}^+ \\ R_{33}^+ \end{pmatrix} + P_L \begin{pmatrix} R_{1L}^+ \\ R_{2L}^+ \\ R_{3L}^+ \end{pmatrix} + P_N \begin{pmatrix} R_{1N}^+ \\ R_{2N}^+ \\ R_{3N}^+ \end{pmatrix} \right\} \times C_N
 \end{pmatrix}
 \begin{array}{c}
 1 \\
 2 \\
 3 \\
 L \\
 N
 \end{array}$$

Fig. 3