$$\begin{Bmatrix} REIS \\ Wage+Salary \\ 1989 \\ (100x29) \end{Bmatrix} = \begin{Bmatrix} REIS \\ Earnings^* \\ 1989 \\ (800x29) \end{Bmatrix} \rightarrow map\ SIC\ into\ I\text{-}O \rightarrow \begin{Bmatrix} REIS \\ Earnings^* \\ 1989 \\ (500x29) \end{Bmatrix}$$

$$G_{PC} = \{ N_{PC} - H_{PC} A_{CC} \} A_{CP} = \{ \hat{p}_{CP} \} G_{CP} E_{C_i} / R_{CP_i} \quad if\ E_{C_i} < R_{CP_i} R_{CP} = G_{CP} X_P R_{CP}$$

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$$\begin{Bmatrix} Earnings \\ Estimate \\ 1992 \\ (500x29) \end{Bmatrix} = \begin{Bmatrix} (Earnings89)/ \\ (Wages+Salaries) \\ ratios \\ (500x29) \end{Bmatrix} * \begin{Bmatrix} ES202 \\ Wage+Salary \\ 1992 \\ (500x29) \end{Bmatrix} \begin{Bmatrix} REIS \\ Earnings \\ 1989 \\ (100x29) \end{Bmatrix} = \begin{Bmatrix} REIS \\ Wage+Salary \\ 1989 \\ (100x29) \end{Bmatrix} = \begin{Bmatrix} REIS \\ Earnings^* \\ 1989 \\ (800x29) \end{Bmatrix} \rightarrow map\ SIC\ into\ I\text{-}O \rightarrow \begin{Bmatrix} REIS \\ Earnings^* \\ 1989 \\ (500x29) \end{Bmatrix}$$

$$[a_i] = [F_x] \frac{1}{F^*} = \alpha_{cr} = \frac{V_{cr}}{R^*} = \alpha_{cf} = \frac{V_{cf}}{F^*} = \alpha_{rr} = \frac{V_{rr}}{R^*} = \alpha_{rf} = \frac{V_{rf}}{F^*} = \alpha_{fi} = \frac{V_{fi}}{R^*} = \alpha_{ff} = \frac{V_{ff}}{F^*} =$$

$$\begin{Bmatrix} A_{WF,WF} & A_{WF,TL} & A_{WF,WS} & A_{WF,BR} & A_{WF,CE} & A_{WF,CU} & A_{WF,UB} & A_{WF,SW} & A_{WF,SE} \\ A_{TL,WF} & A_{TL,TL} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ A_{WS,WF} & 0 & A_{WS,WS} & 0 & 0 & 0 & 0 & 0 & 0 \\ A_{BR,WF} & 0 & 0 & A_{BR,BR} & 0 & 0 & 0 & 0 & 0 \\ A_{CE,WF} & 0 & 0 & 0 & A_{CE,CE} & 0 & 0 & 0 & 0 \\ A_{CU,WF} & 0 & 0 & 0 & 0 & A_{CU,CU} & 0 & 0 & \\ A_{UB,WF} & 0 & 0 & 0 & 0 & 0 & A_{UB,UB} & 0 & 0 \end{Bmatrix} \begin{Bmatrix} \{B^{EB}\} & [b_c^{EB}] & [b_r^{EB}] & [b_i^{EB}] & [b_f^{EB}] \\ (b_{cx}^{EB}) & b_{cc}^{EB} & b_{cr}^{EB} & b_{ci}^{EB} & b_{cf}^{EB} \\ (b_{rx}^{EB}) & b_{rc}^{EB} & b_{rr}^{EB} & b_{ri}^{EB} & b_{rf}^{EB} \\ (b_{ix}^{EB}) & b_{ic}^{EB} & b_{ir}^{EB} & b_{ii}^{EB} & b_{if}^{EB} \\ (0) & 0 & 0 & 0 & 1 \end{Bmatrix} =$$

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$$\begin{Bmatrix} b_{cc}^{EB} & [b_r^{EB}] & [b_i^{EB}] & [b_f^{EB}] \\ b_{cc}^{EB} & b_{cr}^{EB} & b_{ci}^{EB} & b_{cf}^{EB} \\ b_{rc}^{EB} & b_{rr}^{EB} & b_{ri}^{EB} & b_{rf}^{EB} \\ b_{ic}^{EB} & b_{ir}^{EB} & b_{ii}^{EB} & b_{if}^{EB} \\ 0 & 0 & 0 & 1 \end{Bmatrix} \begin{Bmatrix} [E] \\ V_{ce} \\ V_{re}+Y_r \\ V_{ie}+Y_i \\ Y_f \end{Bmatrix} \begin{Bmatrix} (Earnings89)/ \\ (Wage+Salary) \\ ratios \\ (500x29) \end{Bmatrix} = \begin{Bmatrix} REIS \\ Earnings^* \\ 1989 \\ (500x29) \end{Bmatrix} \div \begin{Bmatrix} ES202 \\ Wage+Salary \\ 1992 \\ (500x29) \end{Bmatrix} \begin{Bmatrix} [Y] \\ C^* \\ R^* \\ I^* \\ F^* \end{Bmatrix} = \begin{Bmatrix} \{B^{EB}\} & [b_c^{EB}] & [b_r^{EB}] & [b_i^{EB}] & [b_f^{EB}] \\ (b_{cx}^{EB}) & b_{cc}^{EB} & b_{cr}^{EB} & b_{ci}^{EB} & b_{cf}^{EB} \\ (b_{rx}^{EB}) & b_{rc}^{EB} & b_{rr}^{EB} & b_{ri}^{EB} & b_{rf}^{EB} \\ (b_{ix}^{EB}) & b_{ic}^{EB} & b_{ir}^{EB} & b_{ii}^{EB} & b_{if}^{EB} \\ (0) & 0 & 0 & 0 & 1 \end{Bmatrix} \begin{Bmatrix} [E] \\ V_{ce} \\ V_{re}+Y_r \\ Visible+Y_i \\ Y_f \end{Bmatrix} \begin{Bmatrix} (Earnings89)/ \\ (Wage+Salary) \\ ratios \\ (500x29) \end{Bmatrix} = \begin{Bmatrix} REIS \\ Earnings^* \\ 1989 \\ (500x29) \end{Bmatrix}$$