



$$y = G(u + DH(w - Cy))$$

$$(I + GDHC)y = Gu + GDHw$$

$$y = (I + GDHC)^{-1} (Gu + GDHw)$$

$$y = (I + GDHC)^{-1} \begin{bmatrix} G & GDH \end{bmatrix} \begin{bmatrix} u \\ w \end{bmatrix}$$