$$c = c\,c1 + c\ (1 - c1) - c2\ (r - \pi - epsilonb) \tag{1}$$

$$i = i\,i1 + i\ (1 - i1) + i2\,q + epsilonq \tag{2}$$

$$q = q1\,r^k - (r - \pi - epsilonb) + q\ (1 - q1) \tag{3}$$

$$y = c\,ccy + i\,ciy + cvy\,v + epsilong \tag{4}$$

$$y = cpsip\ (calpha\,k + (1 - calpha)\ n + epsilona) \tag{5}$$

$$\pi - \pi\,cgammap = (\pi - \pi\,cgammap)\ pi1 - pi2\ (100\,epsilonp - mc) \tag{6}$$

$$mc = (1 - calpha)\ w + r^k\,calpha - epsilona \tag{7}$$

$$\pi = \pi\,cgammaw + cbeta\ (\pi - \pi\,cgammaw) - w1\ (comega\,u - 100\,epsilonw) \tag{8}$$

$$comega\,u = w - (z + epsilons + comega\,e) \tag{9}$$

$$comega\,u^n = 100\,epsilonw \tag{10}$$

$$l = u + e \tag{11}$$

$$z = z\ (1 - cv) + \frac{cv}{1 - \frac{ch}{ctau}}\ \left(c - c\,\frac{ch}{ctau}\right) \tag{12}$$

$$\bar{k} = \bar{k}\,k1 + i\ (1 - k1) + epsilonq\,k2 \tag{13}$$

$$k = v + \bar{k} \tag{14}$$

$$v = r^k\ \frac{1 - cpsi}{cpsi} \tag{15}$$

$$k = n + w - r^k \tag{16}$$

$$r = r\,crhointr + (1 - crhointr)\ (\pi\,crpi + cry\,y^{gap}) - epsilonr \tag{17}$$

$$0 = e1\ (n - e) \tag{18}$$

$$cf = c1\,cf + (1 - c1)\ cf - c2\ (rf - epsilonb) \tag{19}$$

$$invf = epsilonq + i1\,invf + (1 - i1)\ invf + i2\,qf \tag{20}$$

$$qf = q1\,rkf - (rf - epsilonb) + (1 - q1)\ qf \tag{21}$$

$$yf = epsilong + ccy\,cf + ciy\,invf + cvy\,vf \tag{22}$$
$$yf = cpsip\ (epsilona + calpha\,kf + (1 - calpha)\ nf) \tag{23}$$
$$0 = (1 - calpha)\ wf + calpha\,rkf - epsilona \tag{24}$$
$$wf = epsilons + zf + comega\,nf \tag{25}$$
$$zf = (1 - cv)\ zf + \frac{cv}{1 - \frac{ch}{ctau}}\ \left(cf - \frac{ch}{ctau}\,cf\right) \tag{26}$$
$$kbarf = epsilonq\,k2 + k1\,kbarf + (1 - k1)\ invf \tag{27}$$
$$kf = vf + kbarf \tag{28}$$
$$vf = \frac{1 - cpsi}{cpsi}\,rkf \tag{29}$$
$$kf = nf + wf - rkf \tag{30}$$
$$0 = e1\ (nf - ef) \tag{31}$$
$$y^{gap} = y - yf \tag{32}$$
$$epsilonb = epsilonb\,crhob + etab \tag{33}$$
$$epsilonq = epsilonq\,crhoq + etaq \tag{34}$$
$$epsilong = epsilong\,crhog + etag + crhoga\,etaa \tag{35}$$
$$epsilona = etaa + epsilona\,crhoa \tag{36}$$
$$epsilonp = epsilonp\,crhop + etap - cmup\,AUX\_EXO\_LAG\_54\_0 \tag{37}$$
$$epsilonr = epsilonr\,crhor + etar \tag{38}$$
$$epsilons = epsilons\,crhos + etas \tag{39}$$
$$epsilonw = epsilonw\,crhow + etaw - cmuw\,AUX\_EXO\_LAG\_56\_0 \tag{40}$$
$$dyobs = ctaubar + cebar \tag{41}$$
$$dcobs = ctaubar + cebar \tag{42}$$
$$diobs = ctaubar + cebar \tag{43}$$
$$piobs = \pi + cpibar \tag{44}$$
$$dwobs - piobs = ctaubar \tag{45}$$
$$deobs = cebar \tag{46}$$
$$uobs = u + cubar \tag{47}$$
$$robs = 4\,crbar + r\,4 \tag{48}$$
$$ryear = r\,4 \tag{49}$$
$$piyear = \pi + \pi + AUX\_ENDO\_LAG\_2\_1 + AUX\_ENDO\_LAG\_2\_2 \tag{50}$$
$$AUX\_ENDO\_LAG\_2\_1 = \pi \tag{51}$$
$$AUX\_ENDO\_LAG\_2\_2 = AUX\_ENDO\_LAG\_2\_1 \tag{52}$$
$$AUX\_EXO\_LAG\_54\_0 = etap \tag{53}$$
$$AUX\_EXO\_LAG\_56\_0 = etaw \tag{54}$$