

Table 1: Endogenous

Variable	L <sup>A</sup> T <sub>E</sub> X	Description
path	<i>path</i>	path
pathA	<i>pathA</i>	pathA
fee	<i>fee</i>	fee
ca	<i>ca</i>	ca
rstar	<i>rstar</i>	rstar
r	<i>r</i>	r
rk	<i>rk</i>	rk
w	<i>w</i>	w
b	<i>b</i>	b
y	<i>y</i>	y
varpi	<i>varpi</i>	varpi
s	<i>s</i>	s
inv	<i>inv</i>	inv
c	<i>c</i>	c
cw	<i>cw</i>	cw
cwper	<i>cwper</i>	cwper
cr	<i>cr</i>	cr
crper	<i>crper</i>	crper
tauw	<i>tauw</i>	tauw
N	<i>N</i>	N
stoyw	<i>stoyw</i>	stoyw
PiF	<i>PiF</i>	PiF
Tw	<i>Tw</i>	Tw
hw	<i>hw</i>	hw
Dr	<i>Dr</i>	Dr
Dw	<i>Dw</i>	Dw
ep	<i>ep</i>	ep
varsig	<i>varsig</i>	varsig
zetar	<i>zetar</i>	zetar
zetay	<i>zetay</i>	zetay
gw	<i>gw</i>	gw
g	<i>g</i>	g
gE	<i>gE</i>	gE
iy	<i>iy</i>	iy
gpc	<i>gpc</i>	gpc
gy	<i>gy</i>	gy
zz	<i>zz</i>	zz
far	<i>far</i>	far
faw	<i>faw</i>	faw
dr	<i>dr</i>	dr
dw	<i>dw</i>	dw
mu	<i>mu</i>	mu
k	<i>k</i>	k
u	<i>u</i>	u

Table 1 – Continued

Variable	L <sup>A</sup> T <sub>E</sub> X	Description
del	<i>del</i>	del
delprime	<i>delprime</i>	delprime
gM	<i>gM</i>	gM
v	<i>v</i>	v
j	<i>j</i>	j
lam	<i>lam</i>	lam
gA	<i>gA</i>	gA
za	<i>za</i>	za
PiA	<i>PiA</i>	PiA
PiRD	<i>PiRD</i>	PiRD
fa	<i>fa</i>	fa
n	<i>n</i>	n
gn	<i>gn</i>	gn
gamma	<i>gamma</i>	gamma
er	<i>er</i>	er
ey	<i>ey</i>	ey
en	<i>en</i>	en
psi	<i>psi</i>	psi
shockr	<i>shockr</i>	shockr
shocky	<i>shocky</i>	shocky
shockn	<i>shockn</i>	shockn
fert	<i>fert</i>	fert
omegay	<i>omegay</i>	omegay
shareW	<i>shareW</i>	shareW
shareR	<i>shareR</i>	shareR
AUX_ENDO_LAG_42_1	<i>AUX_ENDO_LAG_42_1</i>	AUX_ENDO_LAG_42_1
AUX_ENDO_LAG_51_1	<i>AUX_ENDO_LAG_51_1</i>	AUX_ENDO_LAG_51_1
AUX_ENDO_LAG_64_1	<i>AUX_ENDO_LAG_64_1</i>	AUX_ENDO_LAG_64_1
AUX_ENDO_LAG_64_2	<i>AUX_ENDO_LAG_64_2</i>	AUX_ENDO_LAG_64_2
AUX_ENDO_LAG_64_3	<i>AUX_ENDO_LAG_64_3</i>	AUX_ENDO_LAG_64_3
AUX_ENDO_LAG_64_4	<i>AUX_ENDO_LAG_64_4</i>	AUX_ENDO_LAG_64_4
AUX_ENDO_LAG_64_5	<i>AUX_ENDO_LAG_64_5</i>	AUX_ENDO_LAG_64_5
AUX_ENDO_LAG_64_6	<i>AUX_ENDO_LAG_64_6</i>	AUX_ENDO_LAG_64_6
AUX_ENDO_LAG_64_7	<i>AUX_ENDO_LAG_64_7</i>	AUX_ENDO_LAG_64_7
AUX_ENDO_LAG_64_8	<i>AUX_ENDO_LAG_64_8</i>	AUX_ENDO_LAG_64_8
AUX_ENDO_LAG_64_9	<i>AUX_ENDO_LAG_64_9</i>	AUX_ENDO_LAG_64_9
AUX_ENDO_LAG_64_10	<i>AUX_ENDO_LAG_64_10</i>	AUX_ENDO_LAG_64_10
AUX_ENDO_LAG_64_11	<i>AUX_ENDO_LAG_64_11</i>	AUX_ENDO_LAG_64_11
AUX_ENDO_LAG_64_12	<i>AUX_ENDO_LAG_64_12</i>	AUX_ENDO_LAG_64_12
AUX_ENDO_LAG_64_13	<i>AUX_ENDO_LAG_64_13</i>	AUX_ENDO_LAG_64_13
AUX_ENDO_LAG_64_14	<i>AUX_ENDO_LAG_64_14</i>	AUX_ENDO_LAG_64_14
AUX_ENDO_LAG_64_15	<i>AUX_ENDO_LAG_64_15</i>	AUX_ENDO_LAG_64_15
AUX_ENDO_LAG_64_16	<i>AUX_ENDO_LAG_64_16</i>	AUX_ENDO_LAG_64_16
AUX_ENDO_LAG_64_17	<i>AUX_ENDO_LAG_64_17</i>	AUX_ENDO_LAG_64_17
AUX_ENDO_LAG_64_18	<i>AUX_ENDO_LAG_64_18</i>	AUX_ENDO_LAG_64_18

Table 1 – Continued

Variable	L <sup>A</sup> T <sub>E</sub> X	Description
AUX_ENDO_LAG_64_19	<i>AUX_ENDO_LAG_64_19</i>	AUX_ENDO_LAG_64_19
AUX_ENDO_LAG_64_20	<i>AUX_ENDO_LAG_64_20</i>	AUX_ENDO_LAG_64_20
AUX_ENDO_LAG_64_21	<i>AUX_ENDO_LAG_64_21</i>	AUX_ENDO_LAG_64_21
AUX_ENDO_LAG_64_22	<i>AUX_ENDO_LAG_64_22</i>	AUX_ENDO_LAG_64_22
AUX_ENDO_LAG_64_23	<i>AUX_ENDO_LAG_64_23</i>	AUX_ENDO_LAG_64_23
AUX_ENDO_LAG_64_24	<i>AUX_ENDO_LAG_64_24</i>	AUX_ENDO_LAG_64_24
AUX_ENDO_LAG_64_25	<i>AUX_ENDO_LAG_64_25</i>	AUX_ENDO_LAG_64_25
AUX_ENDO_LAG_64_26	<i>AUX_ENDO_LAG_64_26</i>	AUX_ENDO_LAG_64_26
AUX_ENDO_LAG_64_27	<i>AUX_ENDO_LAG_64_27</i>	AUX_ENDO_LAG_64_27
AUX_ENDO_LAG_64_28	<i>AUX_ENDO_LAG_64_28</i>	AUX_ENDO_LAG_64_28
AUX_EXO_LAG_69_0	<i>AUX_EXO_LAG_69_0</i>	AUX_EXO_LAG_69_0
AUX_EXO_LAG_69_1	<i>AUX_EXO_LAG_69_1</i>	AUX_EXO_LAG_69_1
AUX_EXO_LAG_69_2	<i>AUX_EXO_LAG_69_2</i>	AUX_EXO_LAG_69_2
AUX_EXO_LAG_69_3	<i>AUX_EXO_LAG_69_3</i>	AUX_EXO_LAG_69_3
AUX_EXO_LAG_69_4	<i>AUX_EXO_LAG_69_4</i>	AUX_EXO_LAG_69_4
AUX_EXO_LAG_69_5	<i>AUX_EXO_LAG_69_5</i>	AUX_EXO_LAG_69_5
AUX_EXO_LAG_69_6	<i>AUX_EXO_LAG_69_6</i>	AUX_EXO_LAG_69_6
AUX_EXO_LAG_69_7	<i>AUX_EXO_LAG_69_7</i>	AUX_EXO_LAG_69_7
AUX_EXO_LAG_69_8	<i>AUX_EXO_LAG_69_8</i>	AUX_EXO_LAG_69_8
AUX_EXO_LAG_69_9	<i>AUX_EXO_LAG_69_9</i>	AUX_EXO_LAG_69_9
AUX_EXO_LAG_69_10	<i>AUX_EXO_LAG_69_10</i>	AUX_EXO_LAG_69_10
AUX_EXO_LAG_69_11	<i>AUX_EXO_LAG_69_11</i>	AUX_EXO_LAG_69_11
AUX_EXO_LAG_69_12	<i>AUX_EXO_LAG_69_12</i>	AUX_EXO_LAG_69_12
AUX_EXO_LAG_69_13	<i>AUX_EXO_LAG_69_13</i>	AUX_EXO_LAG_69_13
AUX_EXO_LAG_69_14	<i>AUX_EXO_LAG_69_14</i>	AUX_EXO_LAG_69_14
AUX_EXO_LAG_69_15	<i>AUX_EXO_LAG_69_15</i>	AUX_EXO_LAG_69_15
AUX_EXO_LAG_69_16	<i>AUX_EXO_LAG_69_16</i>	AUX_EXO_LAG_69_16
AUX_EXO_LAG_69_17	<i>AUX_EXO_LAG_69_17</i>	AUX_EXO_LAG_69_17
AUX_EXO_LAG_69_18	<i>AUX_EXO_LAG_69_18</i>	AUX_EXO_LAG_69_18
AUX_EXO_LAG_69_19	<i>AUX_EXO_LAG_69_19</i>	AUX_EXO_LAG_69_19
AUX_EXO_LAG_69_20	<i>AUX_EXO_LAG_69_20</i>	AUX_EXO_LAG_69_20
AUX_EXO_LAG_69_21	<i>AUX_EXO_LAG_69_21</i>	AUX_EXO_LAG_69_21
AUX_EXO_LAG_69_22	<i>AUX_EXO_LAG_69_22</i>	AUX_EXO_LAG_69_22
AUX_EXO_LAG_69_23	<i>AUX_EXO_LAG_69_23</i>	AUX_EXO_LAG_69_23
AUX_EXO_LAG_69_24	<i>AUX_EXO_LAG_69_24</i>	AUX_EXO_LAG_69_24
AUX_EXO_LAG_69_25	<i>AUX_EXO_LAG_69_25</i>	AUX_EXO_LAG_69_25
AUX_EXO_LAG_69_26	<i>AUX_EXO_LAG_69_26</i>	AUX_EXO_LAG_69_26
AUX_EXO_LAG_69_27	<i>AUX_EXO_LAG_69_27</i>	AUX_EXO_LAG_69_27
AUX_EXO_LAG_69_28	<i>AUX_EXO_LAG_69_28</i>	AUX_EXO_LAG_69_28

Table 2: Exogenous

Variable	$\LaTeX$	Description
delall	<i>delall</i>	delall

Table 3: Parameters

Variable	$\LaTeX$	Description
Rstar_SS	<i>Rstar_SS</i>	Rstar_SS
R_SS	<i>R_SS</i>	R_SS
SHINNOVW	<i>SHINNOVW</i>	SHINNOVW
YINNOVSH	<i>YINNOVSH</i>	YINNOVSH
OMEGAR	<i>OMEGAR</i>	OMEGAR
ZETAYSS	<i>ZETAYSS</i>	ZETAYSS
ZETARSS	<i>ZETARSS</i>	ZETARSS
REPLACSS	<i>REPLACSS</i>	REPLACSS
RHOYW	<i>RHOYW</i>	RHOYW
LAMY	<i>LAMY</i>	LAMY
PSISS	<i>PSISS</i>	PSISS
GSS	<i>GSS</i>	GSS
PERS	<i>PERS</i>	PERS
RATIODEL	<i>RATIODEL</i>	RATIODEL
OMEGAYSS	<i>OMEGAYSS</i>	OMEGAYSS
RHOU	<i>RHOU</i>	RHOU
BBETA	<i>BBETA</i>	BBETA
ALPHA	<i>ALPHA</i>	ALPHA
GAMMAI	<i>GAMMAI</i>	GAMMAI
VARNU	<i>VARNU</i>	VARNU
BMEGA	<i>BMEGA</i>	BMEGA
CHI	<i>CHI</i>	CHI
RHO	<i>RHO</i>	RHO
PHI	<i>PHI</i>	PHI
ELASMU	<i>ELASMU</i>	ELASMU
ELASLAM	<i>ELASLAM</i>	ELASLAM
DELPRIMESS	<i>DELPRIMESS</i>	DELPRIMESS
DELSS	<i>DELSS</i>	DELSS
MUSS	<i>MUSS</i>	MUSS
LAMSS	<i>LAMSS</i>	LAMSS
USS	<i>USS</i>	USS
VARPISS	<i>VARPISS</i>	VARPISS
ZASS	<i>ZASS</i>	ZASS
KSS	<i>KSS</i>	KSS
NSS	<i>NSS</i>	NSS
GAMMASS	<i>GAMMASS</i>	GAMMASS
RHOE	<i>RHOE</i>	RHOE

Table 3 – Continued

Variable	L <sup>A</sup> T <sub>E</sub> X	Description
CHIE	<i>CHIE</i>	CHIE
gn_1	<i>gn_1</i>	gn_1
gn_2	<i>gn_2</i>	gn_2
gn_3	<i>gn_3</i>	gn_3
gn_4	<i>gn_4</i>	gn_4
gn_5	<i>gn_5</i>	gn_5
gn_6	<i>gn_6</i>	gn_6
gn_7	<i>gn_7</i>	gn_7
gn_8	<i>gn_8</i>	gn_8
gn_9	<i>gn_9</i>	gn_9
gn_10	<i>gn_10</i>	gn_10
gn_11	<i>gn_11</i>	gn_11
gn_12	<i>gn_12</i>	gn_12
gn_13	<i>gn_13</i>	gn_13
gn_14	<i>gn_14</i>	gn_14
gn_15	<i>gn_15</i>	gn_15
gn_16	<i>gn_16</i>	gn_16
gn_17	<i>gn_17</i>	gn_17
gn_18	<i>gn_18</i>	gn_18
gn_19	<i>gn_19</i>	gn_19
gn_20	<i>gn_20</i>	gn_20
gn_21	<i>gn_21</i>	gn_21
gn_22	<i>gn_22</i>	gn_22
gn_23	<i>gn_23</i>	gn_23
gn_24	<i>gn_24</i>	gn_24
gn_25	<i>gn_25</i>	gn_25
gn_26	<i>gn_26</i>	gn_26
gn_27	<i>gn_27</i>	gn_27
gn_28	<i>gn_28</i>	gn_28
gn_29	<i>gn_29</i>	gn_29
gn_30	<i>gn_30</i>	gn_30
dws_1	<i>dws_1</i>	dws_1
dws_2	<i>dws_2</i>	dws_2
dws_3	<i>dws_3</i>	dws_3
dws_4	<i>dws_4</i>	dws_4
dws_5	<i>dws_5</i>	dws_5
dws_6	<i>dws_6</i>	dws_6
dws_7	<i>dws_7</i>	dws_7
dws_8	<i>dws_8</i>	dws_8
dws_9	<i>dws_9</i>	dws_9
dws_10	<i>dws_10</i>	dws_10
dws_11	<i>dws_11</i>	dws_11
dws_12	<i>dws_12</i>	dws_12
dws_13	<i>dws_13</i>	dws_13
dws_14	<i>dws_14</i>	dws_14

Table 3 – Continued

Variable	$\LaTeX$	Description
dws_15	<i>dws_15</i>	dws_15
dws_16	<i>dws_16</i>	dws_16
dws_17	<i>dws_17</i>	dws_17
dws_18	<i>dws_18</i>	dws_18
dws_19	<i>dws_19</i>	dws_19
dws_20	<i>dws_20</i>	dws_20
dws_21	<i>dws_21</i>	dws_21
dws_22	<i>dws_22</i>	dws_22
dws_23	<i>dws_23</i>	dws_23
dws_24	<i>dws_24</i>	dws_24
dws_25	<i>dws_25</i>	dws_25
dws_26	<i>dws_26</i>	dws_26
dws_27	<i>dws_27</i>	dws_27
dws_28	<i>dws_28</i>	dws_28
dws_29	<i>dws_29</i>	dws_29
dws_30	<i>dws_30</i>	dws_30
drs_1	<i>drs_1</i>	drs_1
drs_2	<i>drs_2</i>	drs_2
drs_3	<i>drs_3</i>	drs_3
drs_4	<i>drs_4</i>	drs_4
drs_5	<i>drs_5</i>	drs_5
drs_6	<i>drs_6</i>	drs_6
drs_7	<i>drs_7</i>	drs_7
drs_8	<i>drs_8</i>	drs_8
drs_9	<i>drs_9</i>	drs_9
drs_10	<i>drs_10</i>	drs_10
drs_11	<i>drs_11</i>	drs_11
drs_12	<i>drs_12</i>	drs_12
drs_13	<i>drs_13</i>	drs_13
drs_14	<i>drs_14</i>	drs_14
drs_15	<i>drs_15</i>	drs_15
drs_16	<i>drs_16</i>	drs_16
drs_17	<i>drs_17</i>	drs_17
drs_18	<i>drs_18</i>	drs_18
drs_19	<i>drs_19</i>	drs_19
drs_20	<i>drs_20</i>	drs_20
drs_21	<i>drs_21</i>	drs_21
drs_22	<i>drs_22</i>	drs_22
drs_23	<i>drs_23</i>	drs_23
drs_24	<i>drs_24</i>	drs_24
drs_25	<i>drs_25</i>	drs_25
drs_26	<i>drs_26</i>	drs_26
drs_27	<i>drs_27</i>	drs_27
drs_28	<i>drs_28</i>	drs_28
drs_29	<i>drs_29</i>	drs_29

Table 3 – Continued

Variable	$\LaTeX$	Description
drs_30	<i>drs_30</i>	drs_30
Rh_1	<i>Rh_1</i>	Rh_1
Rh_2	<i>Rh_2</i>	Rh_2
Rh_3	<i>Rh_3</i>	Rh_3
Rh_4	<i>Rh_4</i>	Rh_4
Rh_5	<i>Rh_5</i>	Rh_5
Rh_6	<i>Rh_6</i>	Rh_6
Rh_7	<i>Rh_7</i>	Rh_7
Rh_8	<i>Rh_8</i>	Rh_8
Rh_9	<i>Rh_9</i>	Rh_9
Rh_10	<i>Rh_10</i>	Rh_10
Rh_11	<i>Rh_11</i>	Rh_11
Rh_12	<i>Rh_12</i>	Rh_12
Rh_13	<i>Rh_13</i>	Rh_13
Rh_14	<i>Rh_14</i>	Rh_14
Rh_15	<i>Rh_15</i>	Rh_15
Rh_16	<i>Rh_16</i>	Rh_16
Rh_17	<i>Rh_17</i>	Rh_17
Rh_18	<i>Rh_18</i>	Rh_18
Rh_19	<i>Rh_19</i>	Rh_19
Rh_20	<i>Rh_20</i>	Rh_20
Rh_21	<i>Rh_21</i>	Rh_21
Rh_22	<i>Rh_22</i>	Rh_22
Rh_23	<i>Rh_23</i>	Rh_23
Rh_24	<i>Rh_24</i>	Rh_24
Rh_25	<i>Rh_25</i>	Rh_25
Rh_26	<i>Rh_26</i>	Rh_26
Rh_27	<i>Rh_27</i>	Rh_27
Rh_28	<i>Rh_28</i>	Rh_28
Rh_29	<i>Rh_29</i>	Rh_29
Rh_30	<i>Rh_30</i>	Rh_30

Table 4: Parameter Values

Parameter	Value
<i>Rstar_SS</i>	1.013
<i>R_SS</i>	1.161
<i>SHINNOVW</i>	0.010
<i>YINNOVSH</i>	0.060
<i>OMEGAR</i>	0.975
<i>ZETAYSS</i>	0.700
<i>ZETARSS</i>	0.227
<i>REPLACSS</i>	0.756
<i>RHOYW</i>	0.512
<i>LAMY</i>	0.049
<i>PSISS</i>	0.708
<i>GSS</i>	1.046
<i>PERS</i>	0.900
<i>RATIODEL</i>	0.333
<i>OMEGAYSS</i>	0.950
<i>RHOU</i>	-3.000
<i>BBETA</i>	0.960
<i>ALPHA</i>	0.333
<i>GAMMAI</i>	0.500
<i>VARNU</i>	1.667
<i>BMEGA</i>	0.128
<i>CHI</i>	64.671
<i>RHO</i>	0.900
<i>PHI</i>	0.850
<i>ELASMU</i>	-1.000
<i>ELASLAM</i>	0.855
<i>DELPRIMESS</i>	0.301
<i>DELSS</i>	0.080
<i>MUSS</i>	1.100
<i>LAMSS</i>	0.100
<i>USS</i>	0.800
<i>VARPISS</i>	0.135
<i>ZASS</i>	3.126
<i>KSS</i>	0.658
<i>NSS</i>	1.010
<i>GAMMASS</i>	0.900
<i>RHOE</i>	0.900
<i>CHIE</i>	1689.513
<i>gn_1</i>	1.012
<i>gn_2</i>	1.012
<i>gn_3</i>	1.012
<i>gn_4</i>	1.012
<i>gn_5</i>	1.012



Table 4 – Continued

Parameter	Value
<i>gn_6</i>	1.011
<i>gn_7</i>	1.011
<i>gn_8</i>	1.011
<i>gn_9</i>	1.010
<i>gn_10</i>	1.010
<i>gn_11</i>	1.010
<i>gn_12</i>	1.010
<i>gn_13</i>	1.010
<i>gn_14</i>	1.009
<i>gn_15</i>	1.009
<i>gn_16</i>	1.009
<i>gn_17</i>	1.009
<i>gn_18</i>	1.009
<i>gn_19</i>	1.009
<i>gn_20</i>	1.008
<i>gn_21</i>	1.008
<i>gn_22</i>	1.008
<i>gn_23</i>	1.008
<i>gn_24</i>	1.008
<i>gn_25</i>	1.007
<i>gn_26</i>	1.007
<i>gn_27</i>	1.007
<i>gn_28</i>	1.007
<i>gn_29</i>	1.007
<i>gn_30</i>	1.006
<i>dws_1</i>	-0.001
<i>dws_2</i>	-0.001
<i>dws_3</i>	-0.001
<i>dws_4</i>	-0.001
<i>dws_5</i>	-0.001
<i>dws_6</i>	-0.003
<i>dws_7</i>	-0.003
<i>dws_8</i>	-0.002
<i>dws_9</i>	-0.002
<i>dws_10</i>	-0.003
<i>dws_11</i>	-0.004
<i>dws_12</i>	-0.004
<i>dws_13</i>	-0.005
<i>dws_14</i>	-0.005
<i>dws_15</i>	-0.005
<i>dws_16</i>	-0.006
<i>dws_17</i>	-0.006
<i>dws_18</i>	-0.006
<i>dws_19</i>	-0.005

Table 4 – Continued

Parameter	Value
<i>dws_20</i>	-0.004
<i>dws_21</i>	-0.003
<i>dws_22</i>	-0.002
<i>dws_23</i>	-0.002
<i>dws_24</i>	-0.001
<i>dws_25</i>	-0.001
<i>dws_26</i>	-0.001
<i>dws_27</i>	-0.001
<i>dws_28</i>	-0.001
<i>dws_29</i>	-0.001
<i>dws_30</i>	-0.001
<i>drs_1</i>	0.003
<i>drs_2</i>	0.004
<i>drs_3</i>	0.004
<i>drs_4</i>	0.004
<i>drs_5</i>	0.005
<i>drs_6</i>	0.005
<i>drs_7</i>	0.005
<i>drs_8</i>	0.005
<i>drs_9</i>	0.005
<i>drs_10</i>	0.005
<i>drs_11</i>	0.005
<i>drs_12</i>	0.005
<i>drs_13</i>	0.006
<i>drs_14</i>	0.006
<i>drs_15</i>	0.006
<i>drs_16</i>	0.006
<i>drs_17</i>	0.006
<i>drs_18</i>	0.006
<i>drs_19</i>	0.005
<i>drs_20</i>	0.005
<i>drs_21</i>	0.003
<i>drs_22</i>	0.003
<i>drs_23</i>	0.002
<i>drs_24</i>	0.002
<i>drs_25</i>	0.002
<i>drs_26</i>	0.002
<i>drs_27</i>	0.002
<i>drs_28</i>	0.002
<i>drs_29</i>	0.002
<i>drs_30</i>	0.002
<i>Rh_1</i>	0.015
<i>Rh_2</i>	0.015
<i>Rh_3</i>	0.014

Table 4 – Continued

<b>Parameter</b>	<b>Value</b>
<i>Rh_4</i>	0.014
<i>Rh_5</i>	0.013
<i>Rh_6</i>	0.013
<i>Rh_7</i>	0.012
<i>Rh_8</i>	0.012
<i>Rh_9</i>	0.011
<i>Rh_10</i>	0.011
<i>Rh_11</i>	0.010
<i>Rh_12</i>	0.009
<i>Rh_13</i>	0.008
<i>Rh_14</i>	0.007
<i>Rh_15</i>	0.006
<i>Rh_16</i>	0.005
<i>Rh_17</i>	0.004
<i>Rh_18</i>	0.003
<i>Rh_19</i>	0.001
<i>Rh_20</i>	0.000
<i>Rh_21</i>	-0.001
<i>Rh_22</i>	-0.003
<i>Rh_23</i>	-0.004
<i>Rh_24</i>	-0.005
<i>Rh_25</i>	-0.006
<i>Rh_26</i>	-0.008
<i>Rh_27</i>	-0.009
<i>Rh_28</i>	-0.010
<i>Rh_29</i>	-0.011
<i>Rh_30</i>	-0.013

$$\begin{aligned}
shockR = & delall_t Rh\_1 + delall_{t-1} Rh\_2 + delall_{t-2} Rh\_3 + delall_{t-3} Rh\_4 + delall_{t-4} Rh\_5 \\
& + delall_{t-5} Rh\_6 + delall_{t-6} Rh\_7 + delall_{t-7} Rh\_8 + delall_{t-8} Rh\_9 + delall_{t-9} Rh\_10 \\
& + delall_{t-10} Rh\_11 + delall_{t-11} Rh\_12 + delall_{t-12} Rh\_13 + delall_{t-13} Rh\_14 \\
& + delall_{t-14} Rh\_15 + delall_{t-15} Rh\_16 + delall_{t-16} Rh\_17 + delall_{t-17} Rh\_18 \\
& + delall_{t-18} Rh\_19 + delall_{t-19} Rh\_20 + delall_{t-20} Rh\_21 + delall_{t-21} Rh\_22 \\
& + delall_{t-22} Rh\_23 + delall_{t-23} Rh\_24 + delall_{t-24} Rh\_25 + delall_{t-25} Rh\_26 \\
& + delall_{t-26} Rh\_27 + delall_{t-27} Rh\_28 + delall_{t-28} Rh\_29 + delall_{t-29} Rh\_30
\end{aligned}$$

$$hw_t = w_t + \frac{OMEGAR}{r_t zz_t} \frac{g_{t+1}}{gw_t} hw_{t+1} \quad (1)$$

$$Tw_t = tauw_t + \frac{OMEGAR}{r_t zz_t} \frac{g_{t+1}}{gw_t} Tw_{t+1} \quad (2)$$

$$Dr_t = dr_t + \frac{g_{t+1} Dr_{t+1} gamma_t zetar_{t-1}}{gw_t r_t zetar_t} \quad (3)$$

$$Dw_t = dw_t + \frac{OMEGAR}{r_t zz_t} \frac{g_{t+1}}{gw_t} Dw_{t+1} + Dr_{t+1} \frac{(1 - OMEGAR) ep_{t+1}^{\frac{RHO-1}{RHO}}}{r_t zz_t} \frac{g_{t+1}}{gw_t zetar_t} \quad (4)$$

$$cw_t = varsig_t \left( Dw_t + hw_t + \frac{r_{t-1} faw_{t-1}}{g_t} - Tw_t \right) \quad (5)$$

$$cr_t = varsig_t ep_t \left( Dr_t + \frac{r_{t-1} far_{t-1}}{g_t} \right) \quad (6)$$

$$1 - varsig_t ep_t = \frac{gamma_t (r_t BBETA)^{\frac{1}{1-RHO}}}{r_t} \frac{varsig_t ep_t}{ep_{t+1} varsig_{t+1}} \quad (7)$$

$$1 - varsig_t = \frac{(zz_t r_t BBETA)^{\frac{1}{1-RHO}}}{r_t zz_t} \frac{varsig_t}{varsig_{t+1}} \quad (8)$$

$$zz_t = OMEGAR + (1 - OMEGAR) ep_{t+1}^{\frac{RHO-1}{RHO}} \quad (9)$$

$$cwper_t = cw_t (zetar_t + 1 + zeta_y_t) \quad (10)$$

$$crper_t = \frac{cr_t (zetar_t + 1 + zeta_y_t)}{zetar_t} \quad (11)$$

$$gw_t = OMEGAR + (1 - omegay_t) zeta_y_{t-1} \quad (12)$$

$$n_t = gw_t \frac{zetay_t}{zetay_{t-1}} \quad (13)$$

$$gw_t zetar_t = 1 - OMEGAR + gamma_t zetar_{t-1} \quad (14)$$

$$gn_t = (gw_t zetar_t + gw_t + zetay_{t-1} n_t) (zetay_{t-1} + 1 + zetar_{t-1})^{(-1)} \quad (15)$$

$$gE_t = \frac{OMEGAR + (1 - omegay_t) zetay_{t-1} (RHOE + \frac{CHIE}{2} iy_t^2)}{gw_t} \quad (16)$$

$$tauw_t = w_t iy_t \quad (17)$$

$$varsig_t^{\frac{(-1)}{RHOV}} = \frac{g_{t+1} iy_t CHIE zetay_t BBETA varsig_{t+1}^{\frac{(-1)}{RHOV}} (1 - omegay_{t+1}) w_{t+1}}{n_t gE_t w_t gw_t} \quad (18)$$

$$fert_t = n_t - omegay_t \quad (19)$$

$$(1 - ALPHA) (1 - GAMMAI) = w_t mu_t \quad (20)$$

$$ALPHA (1 - GAMMAI) = mu_t (rk_t + del_t) \frac{k_{t-1}}{g_t} \quad (21)$$

$$ALPHA (1 - GAMMAI) = \frac{k_{t-1}}{g_t} mu_t delprime_t u_t \quad (22)$$

$$g_t = \frac{mu_t}{mu_{t-1}} gM_t gA_{t-1}^{1-VARNU} \quad (23)$$

$$g_t \quad (24)$$

$$= gM_t^{GAMMAI} (gE_{t-1} gw_{t-1})^{(1-ALPHA)(1-GAMMAI)} \frac{N_t^{mu_t-1}}{N_{t-1}^{mu_{t-1}-1}} \left( \frac{k_{t-1} u_t g_{t-1}}{u_{t-1} AUX\_ENDO\_LAG\_42\_1_{t-1}} \right)^{ALPHA(1-GAMMAI)}$$

$$\frac{mu_t - 1}{mu_t} N_t^{(-mu_t)} = BMEGA v_t \quad (25)$$

$$mu_t = MUSS (1 + ELASMU (N_t - 1)) \quad (26)$$

$$del_t = DELSS + delprime_t (u_t - USS) \quad (27)$$

$$delprime_t = DELPRIMESS + \frac{(u_t - USS) DELPRIMESS RATIODEL}{USS} \quad (28)$$

$$\frac{gA_t z a_t}{z a_{t-1}} = stoyw_t^{RHOYW} CHI \left( \frac{s_t}{psi_t} \right)^{RHO} + PHI \quad (29)$$

$$stoyw_t = \frac{zetaay_{t-1} (1 - omegay_t) YINNOVSH}{zetar_{t-1} + 1 + zetaay_{t-1}} + \frac{OMEGAR (1 - LAMY)}{gn_t} stoyw_{t-1} \quad (30)$$

$$gA_t = PHI + PHI lam_t (z a_{t-1} - 1) \quad (31)$$

$$s_t = PHI \frac{g_{t+1}}{r_t} j_{t+1} \left( 1 - \frac{z a_{t-1} PHI}{gA_t z a_t} \right) \quad (32)$$

$$v_t = \frac{GAMMAI \left( 1 - \frac{1}{VARNU} \right)}{mu_t} + \frac{g_{t+1}}{gA_t} \frac{PHI}{r_t} v_{t+1} \quad (33)$$

$$varpi_t = \frac{PHI}{r_t} \frac{g_{t+1}}{gA_t} z a_{t-1} lam_t ELASLAM \left( v_{t+1} - \frac{j_{t+1}}{z a_t} \right) \quad (34)$$

$$j_t = \frac{PHI}{r_t} z a_{t-1} \frac{g_{t+1}}{gA_t} \left( lam_t v_{t+1} + \frac{j_{t+1} (1 - lam_t)}{z a_t} \right) - varpi_t \quad (35)$$

$$lam_t = LAMSS \left( 1 + ELASLAM \left( \frac{varpi_t - VARPISS}{VARPISS} - \frac{z a_{t-1} - ZASS}{ZASS} - \frac{psi_t - PSISS}{PSISS} \right) \right) \quad (36)$$

$$PiA_t = \frac{GAMMAI \left( 1 - \frac{1}{VARNU} \right)}{mu_t} - PHI j_t \left( 1 - \frac{PHI AUX\_ENDO\_LAG\_51\_1_{t-1}}{gA_{t-1} z a_{t-1}} \right) - \frac{r_{t-1} varpi_{t-1} \left( 1 - \frac{1}{AUX\_ENDO\_LAG\_51\_1_{t-1}} \right)}{g_t} \quad (37)$$

$$PiRD_t = PHI j_t \left( 1 - \frac{PHI AUX\_ENDO\_LAG\_51\_1_{t-1}}{gA_{t-1} z a_{t-1}} \right) - \frac{r_{t-1} s_{t-1}}{g_t} \quad (38)$$

$$psi_t = v_t \quad (39)$$

$$r_t = 1 + rk_{t+1} \quad (40)$$

$$dr_t = \frac{far_{t-1} PiF_t}{fa_{t-1}} \quad (41)$$

$$dw_t = \frac{faw_{t-1} PiF_t}{fa_{t-1}} + SHINNOVW (PiA_t + PiRD_t) \quad (42)$$

$$b_t = s_t + varpi_t \left( 1 - \frac{1}{za_{t-1}} \right) \quad (43)$$

$$PiF_t = \frac{k_{t-1}}{g_t} (1 + rk_t) + \frac{r_{t-1} b_{t-1}}{g_t} + \frac{ca_{t-1} rstar_{t-1}}{g_t} - \frac{r_{t-1} fa_{t-1}}{g_t} - k_t - b_t - ca_t \\ + fa_t + (PiA_t + PiRD_t) (1 - SHINNOVW) - \frac{abs(ca_{t-1} fee_{t-1})}{g_t} \quad (44)$$

$$k_t = \frac{k_{t-1}}{g_t} (1 - del_t) + inv_t \quad (45)$$

$$y_t = 1 - \frac{GAMMAI}{mu_t VARNU} - psi_t N_t BMEGA \quad (46)$$

$$y_t = tauw_t + ca_t + varpi_t \left( 1 - \frac{1}{za_{t-1}} \right) + s_t + inv_t + c_t \quad (47)$$

$$c_t = cw_t + cr_t \quad (48)$$

$$fa_t = ca_t + b_t + k_t \quad (49)$$

$$far_t = dr_t + \frac{r_{t-1} far_{t-1}}{g_t} - cr_t + (1 - OMEGAR) \left( dw_t + w_t + \frac{r_{t-1} faw_{t-1}}{g_t} - cw_t - tauw_t \right) \quad (50)$$

$$fa_t = far_t + faw_t \quad (51)$$

$$\log(r_{t+1} - rstar_{t+1}) = \log(r_t - rstar_t) \quad (52)$$

$$fee_t = r_t - rstar_t \quad (53)$$

$$path_t = ca_t \quad (54)$$

$$pathA_t = \frac{ca_t fee_t}{g_t} \quad (55)$$

$$\begin{aligned}
rstar_t = & Rstar\_SS + delall_t Rh\_1 + Rh\_2 AUX\_EXO\_LAG\_69\_0_{t-1} \\
& + Rh\_3 AUX\_EXO\_LAG\_69\_1_{t-1} + Rh\_4 AUX\_EXO\_LAG\_69\_2_{t-1} \\
& + Rh\_5 AUX\_EXO\_LAG\_69\_3_{t-1} + Rh\_6 AUX\_EXO\_LAG\_69\_4_{t-1} \\
& + Rh\_7 AUX\_EXO\_LAG\_69\_5_{t-1} + Rh\_8 AUX\_EXO\_LAG\_69\_6_{t-1} \\
& + Rh\_9 AUX\_EXO\_LAG\_69\_7_{t-1} + Rh\_10 AUX\_EXO\_LAG\_69\_8_{t-1} \\
& + Rh\_11 AUX\_EXO\_LAG\_69\_9_{t-1} + Rh\_12 AUX\_EXO\_LAG\_69\_10_{t-1} \\
& + Rh\_13 AUX\_EXO\_LAG\_69\_11_{t-1} + Rh\_14 AUX\_EXO\_LAG\_69\_12_{t-1} \\
& + Rh\_15 AUX\_EXO\_LAG\_69\_13_{t-1} + Rh\_16 AUX\_EXO\_LAG\_69\_14_{t-1} \\
& + Rh\_17 AUX\_EXO\_LAG\_69\_15_{t-1} + Rh\_18 AUX\_EXO\_LAG\_69\_16_{t-1} \\
& + Rh\_19 AUX\_EXO\_LAG\_69\_17_{t-1} + Rh\_20 AUX\_EXO\_LAG\_69\_18_{t-1} \\
& + Rh\_21 AUX\_EXO\_LAG\_69\_19_{t-1} + Rh\_22 AUX\_EXO\_LAG\_69\_20_{t-1} \\
& + Rh\_23 AUX\_EXO\_LAG\_69\_21_{t-1} + Rh\_24 AUX\_EXO\_LAG\_69\_22_{t-1} \\
& + Rh\_25 AUX\_EXO\_LAG\_69\_23_{t-1} + Rh\_26 AUX\_EXO\_LAG\_69\_24_{t-1} \\
& + Rh\_27 AUX\_EXO\_LAG\_69\_25_{t-1} + Rh\_28 AUX\_EXO\_LAG\_69\_26_{t-1} \\
& + Rh\_29 AUX\_EXO\_LAG\_69\_27_{t-1} + Rh\_30 AUX\_EXO\_LAG\_69\_28_{t-1}
\end{aligned} \tag{56}$$

$$gpc_t = \frac{g_{t-1} \frac{y_t}{y_{t-1}}}{gn_{t-1}} \tag{57}$$

$$gy_t = g_t \frac{y_t}{y_{t-1}} \tag{58}$$

$$gn_t = NSS + en_t \tag{59}$$

$$shareW_t = \frac{1}{zetar_t + 1 + zetay_t} \tag{60}$$

$$shareR_t = \frac{zetar_t}{zetar_t + 1 + zetay_t} \tag{61}$$

$$\frac{1}{zetar_t + 1 + zetay_t} = \frac{1}{1 + ZETAYSS + ZETARSS} + ey_t \tag{62}$$

$$\frac{zetar_t}{zetar_t + 1 + zetay_t} = \frac{ZETARSS}{1 + ZETAYSS + ZETARSS} + er_t \tag{63}$$



$$\begin{aligned}
en_t = & shockn_t (gn\_1 - NSS) + shockn_{t-1} (gn\_2 - NSS) \\
& + (gn\_3 - NSS) AUX\_ENDO\_LAG\_64\_1_{t-1} + (gn\_4 - NSS) AUX\_ENDO\_LAG\_64\_2_{t-1} \\
& + (gn\_5 - NSS) AUX\_ENDO\_LAG\_64\_3_{t-1} + (gn\_6 - NSS) AUX\_ENDO\_LAG\_64\_4_{t-1} \\
& + (gn\_7 - NSS) AUX\_ENDO\_LAG\_64\_5_{t-1} + (gn\_8 - NSS) AUX\_ENDO\_LAG\_64\_6_{t-1} \\
& + (gn\_9 - NSS) AUX\_ENDO\_LAG\_64\_7_{t-1} + (gn\_10 - NSS) AUX\_ENDO\_LAG\_64\_8_{t-1} \\
& + (gn\_11 - NSS) AUX\_ENDO\_LAG\_64\_9_{t-1} \\
& + (gn\_12 - NSS) AUX\_ENDO\_LAG\_64\_10_{t-1} \\
& + (gn\_13 - NSS) AUX\_ENDO\_LAG\_64\_11_{t-1} \\
& + (gn\_14 - NSS) AUX\_ENDO\_LAG\_64\_12_{t-1} \\
& + (gn\_15 - NSS) AUX\_ENDO\_LAG\_64\_13_{t-1} \\
& + (gn\_16 - NSS) AUX\_ENDO\_LAG\_64\_14_{t-1} \\
& + (gn\_17 - NSS) AUX\_ENDO\_LAG\_64\_15_{t-1} \\
& + (gn\_18 - NSS) AUX\_ENDO\_LAG\_64\_16_{t-1} \\
& + (gn\_19 - NSS) AUX\_ENDO\_LAG\_64\_17_{t-1} \\
& + (gn\_20 - NSS) AUX\_ENDO\_LAG\_64\_18_{t-1} \\
& + (gn\_21 - NSS) AUX\_ENDO\_LAG\_64\_19_{t-1} \\
& + (gn\_22 - NSS) AUX\_ENDO\_LAG\_64\_20_{t-1} \\
& + (gn\_23 - NSS) AUX\_ENDO\_LAG\_64\_21_{t-1} \\
& + (gn\_24 - NSS) AUX\_ENDO\_LAG\_64\_22_{t-1} \\
& + (gn\_25 - NSS) AUX\_ENDO\_LAG\_64\_23_{t-1} \\
& + (gn\_26 - NSS) AUX\_ENDO\_LAG\_64\_24_{t-1} \\
& + (gn\_27 - NSS) AUX\_ENDO\_LAG\_64\_25_{t-1} \\
& + (gn\_28 - NSS) AUX\_ENDO\_LAG\_64\_26_{t-1} \\
& + (gn\_29 - NSS) AUX\_ENDO\_LAG\_64\_27_{t-1} \\
& + (gn\_30 - NSS) AUX\_ENDO\_LAG\_64\_28_{t-1}
\end{aligned} \tag{64}$$

$$er_t = shockr_t \tag{65}$$

$$ey_t = shocky_t \tag{66}$$

$$\begin{aligned}
shocky_t = & shocky_{t-1} + delall_t dws\_1 + dws\_2 AUX\_EXO\_LAG\_69\_0_{t-1} \\
& + dws\_3 AUX\_EXO\_LAG\_69\_1_{t-1} + dws\_4 AUX\_EXO\_LAG\_69\_2_{t-1} \\
& + dws\_5 AUX\_EXO\_LAG\_69\_3_{t-1} + dws\_6 AUX\_EXO\_LAG\_69\_4_{t-1} \\
& + dws\_7 AUX\_EXO\_LAG\_69\_5_{t-1} + dws\_8 AUX\_EXO\_LAG\_69\_6_{t-1} \\
& + dws\_9 AUX\_EXO\_LAG\_69\_7_{t-1} + dws\_10 AUX\_EXO\_LAG\_69\_8_{t-1} \\
& + dws\_11 AUX\_EXO\_LAG\_69\_9_{t-1} + dws\_12 AUX\_EXO\_LAG\_69\_10_{t-1} \\
& + dws\_13 AUX\_EXO\_LAG\_69\_11_{t-1} + dws\_14 AUX\_EXO\_LAG\_69\_12_{t-1} \\
& + dws\_15 AUX\_EXO\_LAG\_69\_13_{t-1} + dws\_16 AUX\_EXO\_LAG\_69\_14_{t-1} \\
& + dws\_17 AUX\_EXO\_LAG\_69\_15_{t-1} + dws\_18 AUX\_EXO\_LAG\_69\_16_{t-1} \\
& + dws\_19 AUX\_EXO\_LAG\_69\_17_{t-1} + dws\_20 AUX\_EXO\_LAG\_69\_18_{t-1} \\
& + dws\_21 AUX\_EXO\_LAG\_69\_19_{t-1} + dws\_22 AUX\_EXO\_LAG\_69\_20_{t-1} \\
& + dws\_23 AUX\_EXO\_LAG\_69\_21_{t-1} + dws\_24 AUX\_EXO\_LAG\_69\_22_{t-1} \\
& + dws\_25 AUX\_EXO\_LAG\_69\_23_{t-1} + dws\_26 AUX\_EXO\_LAG\_69\_24_{t-1} \\
& + dws\_27 AUX\_EXO\_LAG\_69\_25_{t-1} + dws\_28 AUX\_EXO\_LAG\_69\_26_{t-1} \\
& + dws\_29 AUX\_EXO\_LAG\_69\_27_{t-1} + dws\_30 AUX\_EXO\_LAG\_69\_28_{t-1}
\end{aligned} \tag{67}$$

$$\begin{aligned}
shockr_t = & delall_t dws.1 + shockr_{t-1} + drs.2 AUX\_EXO\_LAG.69.0_{t-1} \\
& + drs.3 AUX\_EXO\_LAG.69.1_{t-1} + drs.4 AUX\_EXO\_LAG.69.2_{t-1} \\
& + drs.5 AUX\_EXO\_LAG.69.3_{t-1} + drs.6 AUX\_EXO\_LAG.69.4_{t-1} \\
& + drs.7 AUX\_EXO\_LAG.69.5_{t-1} + drs.8 AUX\_EXO\_LAG.69.6_{t-1} \\
& + drs.9 AUX\_EXO\_LAG.69.7_{t-1} + drs.10 AUX\_EXO\_LAG.69.8_{t-1} \\
& + drs.11 AUX\_EXO\_LAG.69.9_{t-1} + drs.12 AUX\_EXO\_LAG.69.10_{t-1} \\
& + drs.13 AUX\_EXO\_LAG.69.11_{t-1} + drs.14 AUX\_EXO\_LAG.69.12_{t-1} \\
& + drs.15 AUX\_EXO\_LAG.69.13_{t-1} + drs.16 AUX\_EXO\_LAG.69.14_{t-1} \\
& + drs.17 AUX\_EXO\_LAG.69.15_{t-1} + drs.18 AUX\_EXO\_LAG.69.16_{t-1} \\
& + drs.19 AUX\_EXO\_LAG.69.17_{t-1} + drs.20 AUX\_EXO\_LAG.69.18_{t-1} \\
& + drs.21 AUX\_EXO\_LAG.69.19_{t-1} + drs.22 AUX\_EXO\_LAG.69.20_{t-1} \\
& + drs.23 AUX\_EXO\_LAG.69.21_{t-1} + drs.24 AUX\_EXO\_LAG.69.22_{t-1} \\
& + drs.25 AUX\_EXO\_LAG.69.23_{t-1} + drs.26 AUX\_EXO\_LAG.69.24_{t-1} \\
& + drs.27 AUX\_EXO\_LAG.69.25_{t-1} + drs.28 AUX\_EXO\_LAG.69.26_{t-1} \\
& + drs.29 AUX\_EXO\_LAG.69.27_{t-1} + drs.30 AUX\_EXO\_LAG.69.28_{t-1}
\end{aligned} \tag{68}$$

$$shockn_t = delall_t \tag{69}$$

$$AUX\_ENDO\_LAG.42.1_t = k_{t-1} \tag{70}$$

$$AUX\_ENDO\_LAG.51.1_t = za_{t-1} \tag{71}$$

$$AUX\_ENDO\_LAG.64.1_t = shockn_{t-1} \tag{72}$$

$$AUX\_ENDO\_LAG.64.2_t = AUX\_ENDO\_LAG.64.1_{t-1} \tag{73}$$

$$AUX\_ENDO\_LAG.64.3_t = AUX\_ENDO\_LAG.64.2_{t-1} \tag{74}$$

$$AUX\_ENDO\_LAG.64.4_t = AUX\_ENDO\_LAG.64.3_{t-1} \tag{75}$$

$$AUX\_ENDO\_LAG.64.5_t = AUX\_ENDO\_LAG.64.4_{t-1} \tag{76}$$

$$AUX\_ENDO\_LAG.64.6_t = AUX\_ENDO\_LAG.64.5_{t-1} \tag{77}$$

$$AUX\_ENDO\_LAG.64.7_t = AUX\_ENDO\_LAG.64.6_{t-1} \tag{78}$$

$$AUX\_ENDO\_LAG.64.8_t = AUX\_ENDO\_LAG.64.7_{t-1} \tag{79}$$

$$AUX\_ENDO\_LAG.64.9_t = AUX\_ENDO\_LAG.64.8_{t-1} \tag{80}$$

$$AUX\_ENDO\_LAG.64.10_t = AUX\_ENDO\_LAG.64.9_{t-1} \tag{81}$$

$$AUX\_ENDO\_LAG\_64.11_t = AUX\_ENDO\_LAG\_64.10_{t-1} \quad (82)$$

$$AUX\_ENDO\_LAG\_64.12_t = AUX\_ENDO\_LAG\_64.11_{t-1} \quad (83)$$

$$AUX\_ENDO\_LAG\_64.13_t = AUX\_ENDO\_LAG\_64.12_{t-1} \quad (84)$$

$$AUX\_ENDO\_LAG\_64.14_t = AUX\_ENDO\_LAG\_64.13_{t-1} \quad (85)$$

$$AUX\_ENDO\_LAG\_64.15_t = AUX\_ENDO\_LAG\_64.14_{t-1} \quad (86)$$

$$AUX\_ENDO\_LAG\_64.16_t = AUX\_ENDO\_LAG\_64.15_{t-1} \quad (87)$$

$$AUX\_ENDO\_LAG\_64.17_t = AUX\_ENDO\_LAG\_64.16_{t-1} \quad (88)$$

$$AUX\_ENDO\_LAG\_64.18_t = AUX\_ENDO\_LAG\_64.17_{t-1} \quad (89)$$

$$AUX\_ENDO\_LAG\_64.19_t = AUX\_ENDO\_LAG\_64.18_{t-1} \quad (90)$$

$$AUX\_ENDO\_LAG\_64.20_t = AUX\_ENDO\_LAG\_64.19_{t-1} \quad (91)$$

$$AUX\_ENDO\_LAG\_64.21_t = AUX\_ENDO\_LAG\_64.20_{t-1} \quad (92)$$

$$AUX\_ENDO\_LAG\_64.22_t = AUX\_ENDO\_LAG\_64.21_{t-1} \quad (93)$$

$$AUX\_ENDO\_LAG\_64.23_t = AUX\_ENDO\_LAG\_64.22_{t-1} \quad (94)$$

$$AUX\_ENDO\_LAG\_64.24_t = AUX\_ENDO\_LAG\_64.23_{t-1} \quad (95)$$

$$AUX\_ENDO\_LAG\_64.25_t = AUX\_ENDO\_LAG\_64.24_{t-1} \quad (96)$$

$$AUX\_ENDO\_LAG\_64.26_t = AUX\_ENDO\_LAG\_64.25_{t-1} \quad (97)$$

$$AUX\_ENDO\_LAG\_64.27_t = AUX\_ENDO\_LAG\_64.26_{t-1} \quad (98)$$

$$AUX\_ENDO\_LAG\_64.28_t = AUX\_ENDO\_LAG\_64.27_{t-1} \quad (99)$$

$$AUX\_EXO\_LAG\_69.0_t = delall_t \quad (100)$$

$$AUX\_EXO\_LAG\_69.1_t = AUX\_EXO\_LAG\_69.0_{t-1} \quad (101)$$

$$AUX\_EXO\_LAG\_69\_2_t = AUX\_EXO\_LAG\_69\_1_{t-1} \quad (102)$$

$$AUX\_EXO\_LAG\_69\_3_t = AUX\_EXO\_LAG\_69\_2_{t-1} \quad (103)$$

$$AUX\_EXO\_LAG\_69\_4_t = AUX\_EXO\_LAG\_69\_3_{t-1} \quad (104)$$

$$AUX\_EXO\_LAG\_69\_5_t = AUX\_EXO\_LAG\_69\_4_{t-1} \quad (105)$$

$$AUX\_EXO\_LAG\_69\_6_t = AUX\_EXO\_LAG\_69\_5_{t-1} \quad (106)$$

$$AUX\_EXO\_LAG\_69\_7_t = AUX\_EXO\_LAG\_69\_6_{t-1} \quad (107)$$

$$AUX\_EXO\_LAG\_69\_8_t = AUX\_EXO\_LAG\_69\_7_{t-1} \quad (108)$$

$$AUX\_EXO\_LAG\_69\_9_t = AUX\_EXO\_LAG\_69\_8_{t-1} \quad (109)$$

$$AUX\_EXO\_LAG\_69\_10_t = AUX\_EXO\_LAG\_69\_9_{t-1} \quad (110)$$

$$AUX\_EXO\_LAG\_69\_11_t = AUX\_EXO\_LAG\_69\_10_{t-1} \quad (111)$$

$$AUX\_EXO\_LAG\_69\_12_t = AUX\_EXO\_LAG\_69\_11_{t-1} \quad (112)$$

$$AUX\_EXO\_LAG\_69\_13_t = AUX\_EXO\_LAG\_69\_12_{t-1} \quad (113)$$

$$AUX\_EXO\_LAG\_69\_14_t = AUX\_EXO\_LAG\_69\_13_{t-1} \quad (114)$$

$$AUX\_EXO\_LAG\_69\_15_t = AUX\_EXO\_LAG\_69\_14_{t-1} \quad (115)$$

$$AUX\_EXO\_LAG\_69\_16_t = AUX\_EXO\_LAG\_69\_15_{t-1} \quad (116)$$

$$AUX\_EXO\_LAG\_69\_17_t = AUX\_EXO\_LAG\_69\_16_{t-1} \quad (117)$$

$$AUX\_EXO\_LAG\_69\_18_t = AUX\_EXO\_LAG\_69\_17_{t-1} \quad (118)$$

$$AUX\_EXO\_LAG\_69\_19_t = AUX\_EXO\_LAG\_69\_18_{t-1} \quad (119)$$

$$AUX\_EXO\_LAG\_69\_20_t = AUX\_EXO\_LAG\_69\_19_{t-1} \quad (120)$$

$$AUX\_EXO\_LAG\_69\_21_t = AUX\_EXO\_LAG\_69\_20_{t-1} \quad (121)$$

$$AUX\_EXO\_LAG\_69\_22_t = AUX\_EXO\_LAG\_69\_21_{t-1} \quad (122)$$

$$AUX\_EXO\_LAG\_69\_23_t = AUX\_EXO\_LAG\_69\_22_{t-1} \quad (123)$$

$$AUX\_EXO\_LAG\_69\_24_t = AUX\_EXO\_LAG\_69\_23_{t-1} \quad (124)$$

$$AUX\_EXO\_LAG\_69\_25_t = AUX\_EXO\_LAG\_69\_24_{t-1} \quad (125)$$

$$AUX\_EXO\_LAG\_69\_26_t = AUX\_EXO\_LAG\_69\_25_{t-1} \quad (126)$$

$$AUX\_EXO\_LAG\_69\_27_t = AUX\_EXO\_LAG\_69\_26_{t-1} \quad (127)$$

$$AUX\_EXO\_LAG\_69\_28_t = AUX\_EXO\_LAG\_69\_27_{t-1} \quad (128)$$