

Table 1: Endogenous

Variable	\LaTeX	Description
ca	ca	ca
rstar	$rstar$	rstar
r	r	r
rk	rk	rk
w	w	w
b	b	b
y	y	y
varpi	$varpi$	varpi
s	s	s
inv	inv	inv
c	c	c
cw	cw	cw
cwper	$cwper$	cwper
cr	cr	cr
crper	$crper$	crper
tauw	$tauw$	tauw
N	N	N
stoyw	$stoyw$	stoyw
PiF	PiF	PiF
Tw	Tw	Tw
hw	hw	hw
Dr	Dr	Dr
Dw	Dw	Dw
ep	ep	ep
varsig	$varsig$	varsig
zetar	$zetar$	zetar
zetay	$zetay$	zetay
gw	gw	gw
g	g	g
gE	gE	gE
iy	iy	iy
gpc	gpc	gpc
gy	gy	gy
zz	zz	zz
far	far	far
faw	faw	faw
dr	dr	dr
dw	dw	dw
mu	mu	mu
k	k	k
u	u	u
del	del	del
delprime	$delprime$	delprime
gM	gM	gM

Table 1 – Continued

Variable	L ^A T _E X	Description
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_39_1	<i>AUX_ENDO_LAG_39_1</i>	AUX_ENDO_LAG_39_1
AUX_ENDO_LAG_48_1	<i>AUX_ENDO_LAG_48_1</i>	AUX_ENDO_LAG_48_1
AUX_ENDO_LAG_61_1	<i>AUX_ENDO_LAG_61_1</i>	AUX_ENDO_LAG_61_1
AUX_ENDO_LAG_61_2	<i>AUX_ENDO_LAG_61_2</i>	AUX_ENDO_LAG_61_2
AUX_ENDO_LAG_61_3	<i>AUX_ENDO_LAG_61_3</i>	AUX_ENDO_LAG_61_3
AUX_ENDO_LAG_61_4	<i>AUX_ENDO_LAG_61_4</i>	AUX_ENDO_LAG_61_4
AUX_ENDO_LAG_61_5	<i>AUX_ENDO_LAG_61_5</i>	AUX_ENDO_LAG_61_5
AUX_ENDO_LAG_61_6	<i>AUX_ENDO_LAG_61_6</i>	AUX_ENDO_LAG_61_6
AUX_ENDO_LAG_61_7	<i>AUX_ENDO_LAG_61_7</i>	AUX_ENDO_LAG_61_7
AUX_ENDO_LAG_61_8	<i>AUX_ENDO_LAG_61_8</i>	AUX_ENDO_LAG_61_8
AUX_ENDO_LAG_61_9	<i>AUX_ENDO_LAG_61_9</i>	AUX_ENDO_LAG_61_9
AUX_ENDO_LAG_61_10	<i>AUX_ENDO_LAG_61_10</i>	AUX_ENDO_LAG_61_10
AUX_ENDO_LAG_61_11	<i>AUX_ENDO_LAG_61_11</i>	AUX_ENDO_LAG_61_11
AUX_ENDO_LAG_61_12	<i>AUX_ENDO_LAG_61_12</i>	AUX_ENDO_LAG_61_12
AUX_ENDO_LAG_61_13	<i>AUX_ENDO_LAG_61_13</i>	AUX_ENDO_LAG_61_13
AUX_ENDO_LAG_61_14	<i>AUX_ENDO_LAG_61_14</i>	AUX_ENDO_LAG_61_14
AUX_ENDO_LAG_61_15	<i>AUX_ENDO_LAG_61_15</i>	AUX_ENDO_LAG_61_15
AUX_ENDO_LAG_61_16	<i>AUX_ENDO_LAG_61_16</i>	AUX_ENDO_LAG_61_16
AUX_ENDO_LAG_61_17	<i>AUX_ENDO_LAG_61_17</i>	AUX_ENDO_LAG_61_17
AUX_ENDO_LAG_61_18	<i>AUX_ENDO_LAG_61_18</i>	AUX_ENDO_LAG_61_18
AUX_ENDO_LAG_61_19	<i>AUX_ENDO_LAG_61_19</i>	AUX_ENDO_LAG_61_19
AUX_ENDO_LAG_61_20	<i>AUX_ENDO_LAG_61_20</i>	AUX_ENDO_LAG_61_20
AUX_ENDO_LAG_61_21	<i>AUX_ENDO_LAG_61_21</i>	AUX_ENDO_LAG_61_21

Table 1 – Continued

Variable	\LaTeX	Description
AUX_ENDO_LAG_61_22	<i>AUX_ENDO_LAG_61_22</i>	AUX_ENDO_LAG_61_22
AUX_ENDO_LAG_61_23	<i>AUX_ENDO_LAG_61_23</i>	AUX_ENDO_LAG_61_23
AUX_ENDO_LAG_61_24	<i>AUX_ENDO_LAG_61_24</i>	AUX_ENDO_LAG_61_24
AUX_ENDO_LAG_61_25	<i>AUX_ENDO_LAG_61_25</i>	AUX_ENDO_LAG_61_25
AUX_ENDO_LAG_61_26	<i>AUX_ENDO_LAG_61_26</i>	AUX_ENDO_LAG_61_26
AUX_ENDO_LAG_61_27	<i>AUX_ENDO_LAG_61_27</i>	AUX_ENDO_LAG_61_27
AUX_ENDO_LAG_61_28	<i>AUX_ENDO_LAG_61_28</i>	AUX_ENDO_LAG_61_28
AUX_EXO_LAG_66_0	<i>AUX_EXO_LAG_66_0</i>	AUX_EXO_LAG_66_0
AUX_EXO_LAG_66_1	<i>AUX_EXO_LAG_66_1</i>	AUX_EXO_LAG_66_1
AUX_EXO_LAG_66_2	<i>AUX_EXO_LAG_66_2</i>	AUX_EXO_LAG_66_2
AUX_EXO_LAG_66_3	<i>AUX_EXO_LAG_66_3</i>	AUX_EXO_LAG_66_3
AUX_EXO_LAG_66_4	<i>AUX_EXO_LAG_66_4</i>	AUX_EXO_LAG_66_4
AUX_EXO_LAG_66_5	<i>AUX_EXO_LAG_66_5</i>	AUX_EXO_LAG_66_5
AUX_EXO_LAG_66_6	<i>AUX_EXO_LAG_66_6</i>	AUX_EXO_LAG_66_6
AUX_EXO_LAG_66_7	<i>AUX_EXO_LAG_66_7</i>	AUX_EXO_LAG_66_7
AUX_EXO_LAG_66_8	<i>AUX_EXO_LAG_66_8</i>	AUX_EXO_LAG_66_8
AUX_EXO_LAG_66_9	<i>AUX_EXO_LAG_66_9</i>	AUX_EXO_LAG_66_9
AUX_EXO_LAG_66_10	<i>AUX_EXO_LAG_66_10</i>	AUX_EXO_LAG_66_10
AUX_EXO_LAG_66_11	<i>AUX_EXO_LAG_66_11</i>	AUX_EXO_LAG_66_11
AUX_EXO_LAG_66_12	<i>AUX_EXO_LAG_66_12</i>	AUX_EXO_LAG_66_12
AUX_EXO_LAG_66_13	<i>AUX_EXO_LAG_66_13</i>	AUX_EXO_LAG_66_13
AUX_EXO_LAG_66_14	<i>AUX_EXO_LAG_66_14</i>	AUX_EXO_LAG_66_14
AUX_EXO_LAG_66_15	<i>AUX_EXO_LAG_66_15</i>	AUX_EXO_LAG_66_15
AUX_EXO_LAG_66_16	<i>AUX_EXO_LAG_66_16</i>	AUX_EXO_LAG_66_16
AUX_EXO_LAG_66_17	<i>AUX_EXO_LAG_66_17</i>	AUX_EXO_LAG_66_17
AUX_EXO_LAG_66_18	<i>AUX_EXO_LAG_66_18</i>	AUX_EXO_LAG_66_18
AUX_EXO_LAG_66_19	<i>AUX_EXO_LAG_66_19</i>	AUX_EXO_LAG_66_19
AUX_EXO_LAG_66_20	<i>AUX_EXO_LAG_66_20</i>	AUX_EXO_LAG_66_20
AUX_EXO_LAG_66_21	<i>AUX_EXO_LAG_66_21</i>	AUX_EXO_LAG_66_21
AUX_EXO_LAG_66_22	<i>AUX_EXO_LAG_66_22</i>	AUX_EXO_LAG_66_22
AUX_EXO_LAG_66_23	<i>AUX_EXO_LAG_66_23</i>	AUX_EXO_LAG_66_23
AUX_EXO_LAG_66_24	<i>AUX_EXO_LAG_66_24</i>	AUX_EXO_LAG_66_24
AUX_EXO_LAG_66_25	<i>AUX_EXO_LAG_66_25</i>	AUX_EXO_LAG_66_25
AUX_EXO_LAG_66_26	<i>AUX_EXO_LAG_66_26</i>	AUX_EXO_LAG_66_26
AUX_EXO_LAG_66_27	<i>AUX_EXO_LAG_66_27</i>	AUX_EXO_LAG_66_27
AUX_EXO_LAG_66_28	<i>AUX_EXO_LAG_66_28</i>	AUX_EXO_LAG_66_28

Table 2: Exogenous

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

Table 3: Parameters

Variable	\LaTeX	Description
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
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

Table 3 – Continued

Variable	L ^A T _E X	Description
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
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

Table 3 – Continued

Variable	\LaTeX	Description
dw _s _22	<i>dw_s_22</i>	dw _s _22
dw _s _23	<i>dw_s_23</i>	dw _s _23
dw _s _24	<i>dw_s_24</i>	dw _s _24
dw _s _25	<i>dw_s_25</i>	dw _s _25
dw _s _26	<i>dw_s_26</i>	dw _s _26
dw _s _27	<i>dw_s_27</i>	dw _s _27
dw _s _28	<i>dw_s_28</i>	dw _s _28
dw _s _29	<i>dw_s_29</i>	dw _s _29
dw _s _30	<i>dw_s_30</i>	dw _s _30
dr _s _1	<i>dr_s_1</i>	dr _s _1
dr _s _2	<i>dr_s_2</i>	dr _s _2
dr _s _3	<i>dr_s_3</i>	dr _s _3
dr _s _4	<i>dr_s_4</i>	dr _s _4
dr _s _5	<i>dr_s_5</i>	dr _s _5
dr _s _6	<i>dr_s_6</i>	dr _s _6
dr _s _7	<i>dr_s_7</i>	dr _s _7
dr _s _8	<i>dr_s_8</i>	dr _s _8
dr _s _9	<i>dr_s_9</i>	dr _s _9
dr _s _10	<i>dr_s_10</i>	dr _s _10
dr _s _11	<i>dr_s_11</i>	dr _s _11
dr _s _12	<i>dr_s_12</i>	dr _s _12
dr _s _13	<i>dr_s_13</i>	dr _s _13
dr _s _14	<i>dr_s_14</i>	dr _s _14
dr _s _15	<i>dr_s_15</i>	dr _s _15
dr _s _16	<i>dr_s_16</i>	dr _s _16
dr _s _17	<i>dr_s_17</i>	dr _s _17
dr _s _18	<i>dr_s_18</i>	dr _s _18
dr _s _19	<i>dr_s_19</i>	dr _s _19
dr _s _20	<i>dr_s_20</i>	dr _s _20
dr _s _21	<i>dr_s_21</i>	dr _s _21
dr _s _22	<i>dr_s_22</i>	dr _s _22
dr _s _23	<i>dr_s_23</i>	dr _s _23
dr _s _24	<i>dr_s_24</i>	dr _s _24
dr _s _25	<i>dr_s_25</i>	dr _s _25
dr _s _26	<i>dr_s_26</i>	dr _s _26
dr _s _27	<i>dr_s_27</i>	dr _s _27
dr _s _28	<i>dr_s_28</i>	dr _s _28
dr _s _29	<i>dr_s_29</i>	dr _s _29
dr _s _30	<i>dr_s_30</i>	dr _s _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

Table 3 – Continued

Variable	\LaTeX	Description
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
Rstar_SS	<i>Rstar_SS</i>	Rstar_SS

Table 4: Parameter Values

Parameter	Value
<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>	1.013
<i>gn_3</i>	1.013
<i>gn_4</i>	1.013
<i>gn_5</i>	1.012
<i>gn_6</i>	1.012
<i>gn_7</i>	1.012

Table 4 – Continued

Parameter	Value
<i>gn_8</i>	1.011
<i>gn_9</i>	1.011
<i>gn_10</i>	1.011
<i>gn_11</i>	1.010
<i>gn_12</i>	1.010
<i>gn_13</i>	1.010
<i>gn_14</i>	1.010
<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>	1.008
<i>gn_26</i>	1.008
<i>gn_27</i>	1.007
<i>gn_28</i>	1.007
<i>gn_29</i>	1.007
<i>gn_30</i>	1.007
<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>	-0.002
<i>dws_8</i>	-0.002
<i>dws_9</i>	-0.002
<i>dws_10</i>	-0.003
<i>dws_11</i>	-0.003
<i>dws_12</i>	-0.003
<i>dws_13</i>	-0.004
<i>dws_14</i>	-0.004
<i>dws_15</i>	-0.004
<i>dws_16</i>	-0.005
<i>dws_17</i>	-0.005
<i>dws_18</i>	-0.005
<i>dws_19</i>	-0.004
<i>dws_20</i>	-0.003
<i>dws_21</i>	-0.003

Table 4 – Continued

Parameter	Value
<i>dws_22</i>	-0.002
<i>dws_23</i>	-0.001
<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>	-0.000
<i>dws_29</i>	-0.000
<i>dws_30</i>	-0.000
<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>	0.004
<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>	0.005
<i>drs_14</i>	0.005
<i>drs_15</i>	0.006
<i>drs_16</i>	0.005
<i>drs_17</i>	0.005
<i>drs_18</i>	0.005
<i>drs_19</i>	0.005
<i>drs_20</i>	0.004
<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>	0.001
<i>drs_27</i>	0.001
<i>drs_28</i>	0.001
<i>drs_29</i>	0.001
<i>drs_30</i>	0.002
<i>Rh_1</i>	0.015
<i>Rh_2</i>	0.015
<i>Rh_3</i>	0.014
<i>Rh_4</i>	0.014
<i>Rh_5</i>	0.013

Table 4 – Continued

Parameter	Value
<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>	-0.012
<i>Rstar_SS</i>	1.013

$$\begin{aligned}
shockR = & delall_t Rh_1 + delall_{t-1} Rh_2 + delall_{t-2} Rh_3 + delall_{t-3} Rh_4 + delall_{t-4} Rh_5 \\
& + delall_{t-5} Rh_6 + delall_{t-6} Rh_7 + delall_{t-7} Rh_8 + delall_{t-8} Rh_9 + delall_{t-9} Rh_10 \\
& + delall_{t-10} Rh_11 + delall_{t-11} Rh_12 + delall_{t-12} Rh_13 + delall_{t-13} Rh_14 \\
& + delall_{t-14} Rh_15 + delall_{t-15} Rh_16 + delall_{t-16} Rh_17 + delall_{t-17} Rh_18 \\
& + delall_{t-18} Rh_19 + delall_{t-19} Rh_20 + delall_{t-20} Rh_21 + delall_{t-21} Rh_22 \\
& + delall_{t-22} Rh_23 + delall_{t-23} Rh_24 + delall_{t-24} Rh_25 + delall_{t-25} Rh_26 \\
& + delall_{t-26} Rh_27 + delall_{t-27} Rh_28 + delall_{t-28} Rh_29 + delall_{t-29} Rh_30
\end{aligned}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$g_t \quad (24)$$

$$= gM_t^{GAMMAI} (gE_{t-1} gw_{t-1})^{(1-ALPHA)(1-GAMMAI)} \frac{N_t^{mu_t-1}}{N_{t-1}^{mu_{t-1}-1}} \left(\frac{k_{t-1} u_t g_{t-1}}{u_{t-1} AUX_ENDO_LAG_39_1_{t-1}} \right)^{ALPHA(1-GAMMAI)}$$

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

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

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

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

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

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

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

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

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

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

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

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

$$PiA_t = \frac{GAMMAI \left(1 - \frac{1}{VARNU} \right)}{mu_t} - PHI j_t \left(1 - \frac{PHI AUX_ENDO_LAG_48_1_{t-1}}{gA_{t-1} z a_{t-1}} \right) - \frac{r_{t-1} varpi_{t-1} \left(1 - \frac{1}{AUX_ENDO_LAG_48_1_{t-1}} \right)}{g_t} \quad (37)$$

$$PiRD_t = PHI j_t \left(1 - \frac{PHI AUX_ENDO_LAG_48_1_{t-1}}{gA_{t-1} z a_{t-1}} \right) - \frac{r_{t-1} s_{t-1}}{g_t} \quad (38)$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\begin{aligned} rstar_t = & Rstar_SS + delall_t Rh_1 + Rh_2 AUX_EXO_LAG_66_0_{t-1} \\ & + Rh_3 AUX_EXO_LAG_66_1_{t-1} + Rh_4 AUX_EXO_LAG_66_2_{t-1} \\ & + Rh_5 AUX_EXO_LAG_66_3_{t-1} + Rh_6 AUX_EXO_LAG_66_4_{t-1} \\ & + Rh_7 AUX_EXO_LAG_66_5_{t-1} + Rh_8 AUX_EXO_LAG_66_6_{t-1} \\ & + Rh_9 AUX_EXO_LAG_66_7_{t-1} + Rh_10 AUX_EXO_LAG_66_8_{t-1} \\ & + Rh_11 AUX_EXO_LAG_66_9_{t-1} + Rh_12 AUX_EXO_LAG_66_10_{t-1} \\ & + Rh_13 AUX_EXO_LAG_66_11_{t-1} + Rh_14 AUX_EXO_LAG_66_12_{t-1} \\ & + Rh_15 AUX_EXO_LAG_66_13_{t-1} + Rh_16 AUX_EXO_LAG_66_14_{t-1} \\ & + Rh_17 AUX_EXO_LAG_66_15_{t-1} + Rh_18 AUX_EXO_LAG_66_16_{t-1} \\ & + Rh_19 AUX_EXO_LAG_66_17_{t-1} + Rh_20 AUX_EXO_LAG_66_18_{t-1} \\ & + Rh_21 AUX_EXO_LAG_66_19_{t-1} + Rh_22 AUX_EXO_LAG_66_20_{t-1} \\ & + Rh_23 AUX_EXO_LAG_66_21_{t-1} + Rh_24 AUX_EXO_LAG_66_22_{t-1} \\ & + Rh_25 AUX_EXO_LAG_66_23_{t-1} + Rh_26 AUX_EXO_LAG_66_24_{t-1} \\ & + Rh_27 AUX_EXO_LAG_66_25_{t-1} + Rh_28 AUX_EXO_LAG_66_26_{t-1} \\ & + Rh_29 AUX_EXO_LAG_66_27_{t-1} + Rh_30 AUX_EXO_LAG_66_28_{t-1} \end{aligned} \quad (53)$$

$$gpc_t = \frac{g_{t-1} \frac{y_t}{y_{t-1}}}{gn_{t-1}} \quad (54)$$

$$gy_t = g_t \frac{y_t}{y_{t-1}} \quad (55)$$

$$gn_t = NSS + en_t \quad (56)$$

$$shareW_t = \frac{1}{zetar_t + 1 + zetay_t} \quad (57)$$

$$shareR_t = \frac{zetar_t}{zetar_t + 1 + zetay_t} \quad (58)$$

$$\frac{1}{zetar_t + 1 + zetay_t} = \frac{1}{1 + ZETAYSS + ZETARSS} + ey_t \quad (59)$$

$$\frac{zetar_t}{zetar_t + 1 + zetay_t} = \frac{ZETARSS}{1 + ZETAYSS + ZETARSS} + er_t \quad (60)$$

$$\begin{aligned} en_t = & shockn_t (gn_1 - NSS) + shockn_{t-1} (gn_2 - NSS) \\ & + (gn_3 - NSS) AUX_ENDO_LAG_61_1_{t-1} + (gn_4 - NSS) AUX_ENDO_LAG_61_2_{t-1} \\ & + (gn_5 - NSS) AUX_ENDO_LAG_61_3_{t-1} + (gn_6 - NSS) AUX_ENDO_LAG_61_4_{t-1} \\ & + (gn_7 - NSS) AUX_ENDO_LAG_61_5_{t-1} + (gn_8 - NSS) AUX_ENDO_LAG_61_6_{t-1} \\ & + (gn_9 - NSS) AUX_ENDO_LAG_61_7_{t-1} + (gn_10 - NSS) AUX_ENDO_LAG_61_8_{t-1} \\ & + (gn_11 - NSS) AUX_ENDO_LAG_61_9_{t-1} \\ & + (gn_12 - NSS) AUX_ENDO_LAG_61_10_{t-1} \\ & + (gn_13 - NSS) AUX_ENDO_LAG_61_11_{t-1} \\ & + (gn_14 - NSS) AUX_ENDO_LAG_61_12_{t-1} \\ & + (gn_15 - NSS) AUX_ENDO_LAG_61_13_{t-1} \\ & + (gn_16 - NSS) AUX_ENDO_LAG_61_14_{t-1} \\ & + (gn_17 - NSS) AUX_ENDO_LAG_61_15_{t-1} \\ & + (gn_18 - NSS) AUX_ENDO_LAG_61_16_{t-1} \\ & + (gn_19 - NSS) AUX_ENDO_LAG_61_17_{t-1} \\ & + (gn_20 - NSS) AUX_ENDO_LAG_61_18_{t-1} \\ & + (gn_21 - NSS) AUX_ENDO_LAG_61_19_{t-1} \\ & + (gn_22 - NSS) AUX_ENDO_LAG_61_20_{t-1} \\ & + (gn_23 - NSS) AUX_ENDO_LAG_61_21_{t-1} \\ & + (gn_24 - NSS) AUX_ENDO_LAG_61_22_{t-1} \\ & + (gn_25 - NSS) AUX_ENDO_LAG_61_23_{t-1} \\ & + (gn_26 - NSS) AUX_ENDO_LAG_61_24_{t-1} \\ & + (gn_27 - NSS) AUX_ENDO_LAG_61_25_{t-1} \\ & + (gn_28 - NSS) AUX_ENDO_LAG_61_26_{t-1} \\ & + (gn_29 - NSS) AUX_ENDO_LAG_61_27_{t-1} \\ & + (gn_30 - NSS) AUX_ENDO_LAG_61_28_{t-1} \end{aligned} \quad (61)$$

$$er_t = shockr_t \quad (62)$$

$$ey_t = shocky_t \quad (63)$$

$$\begin{aligned}
shocky_t = & shocky_{t-1} + delall_t dws.1 + dws.2 AUX_EXO_LAG.66.0_{t-1} \\
& + dws.3 AUX_EXO_LAG.66.1_{t-1} + dws.4 AUX_EXO_LAG.66.2_{t-1} \\
& + dws.5 AUX_EXO_LAG.66.3_{t-1} + dws.6 AUX_EXO_LAG.66.4_{t-1} \\
& + dws.7 AUX_EXO_LAG.66.5_{t-1} + dws.8 AUX_EXO_LAG.66.6_{t-1} \\
& + dws.9 AUX_EXO_LAG.66.7_{t-1} + dws.10 AUX_EXO_LAG.66.8_{t-1} \\
& + dws.11 AUX_EXO_LAG.66.9_{t-1} + dws.12 AUX_EXO_LAG.66.10_{t-1} \\
& + dws.13 AUX_EXO_LAG.66.11_{t-1} + dws.14 AUX_EXO_LAG.66.12_{t-1} \\
& + dws.15 AUX_EXO_LAG.66.13_{t-1} + dws.16 AUX_EXO_LAG.66.14_{t-1} \\
& + dws.17 AUX_EXO_LAG.66.15_{t-1} + dws.18 AUX_EXO_LAG.66.16_{t-1} \\
& + dws.19 AUX_EXO_LAG.66.17_{t-1} + dws.20 AUX_EXO_LAG.66.18_{t-1} \\
& + dws.21 AUX_EXO_LAG.66.19_{t-1} + dws.22 AUX_EXO_LAG.66.20_{t-1} \\
& + dws.23 AUX_EXO_LAG.66.21_{t-1} + dws.24 AUX_EXO_LAG.66.22_{t-1} \\
& + dws.25 AUX_EXO_LAG.66.23_{t-1} + dws.26 AUX_EXO_LAG.66.24_{t-1} \\
& + dws.27 AUX_EXO_LAG.66.25_{t-1} + dws.28 AUX_EXO_LAG.66.26_{t-1} \\
& + dws.29 AUX_EXO_LAG.66.27_{t-1} + dws.30 AUX_EXO_LAG.66.28_{t-1}
\end{aligned} \quad (64)$$

$$\begin{aligned}
shockr_t = & delall_t dws.1 + shockr_{t-1} + drs.2 AUX_EXO_LAG.66.0_{t-1} \\
& + drs.3 AUX_EXO_LAG.66.1_{t-1} + drs.4 AUX_EXO_LAG.66.2_{t-1} \\
& + drs.5 AUX_EXO_LAG.66.3_{t-1} + drs.6 AUX_EXO_LAG.66.4_{t-1} \\
& + drs.7 AUX_EXO_LAG.66.5_{t-1} + drs.8 AUX_EXO_LAG.66.6_{t-1} \\
& + drs.9 AUX_EXO_LAG.66.7_{t-1} + drs.10 AUX_EXO_LAG.66.8_{t-1} \\
& + drs.11 AUX_EXO_LAG.66.9_{t-1} + drs.12 AUX_EXO_LAG.66.10_{t-1} \\
& + drs.13 AUX_EXO_LAG.66.11_{t-1} + drs.14 AUX_EXO_LAG.66.12_{t-1} \\
& + drs.15 AUX_EXO_LAG.66.13_{t-1} + drs.16 AUX_EXO_LAG.66.14_{t-1} \\
& + drs.17 AUX_EXO_LAG.66.15_{t-1} + drs.18 AUX_EXO_LAG.66.16_{t-1} \\
& + drs.19 AUX_EXO_LAG.66.17_{t-1} + drs.20 AUX_EXO_LAG.66.18_{t-1} \\
& + drs.21 AUX_EXO_LAG.66.19_{t-1} + drs.22 AUX_EXO_LAG.66.20_{t-1} \\
& + drs.23 AUX_EXO_LAG.66.21_{t-1} + drs.24 AUX_EXO_LAG.66.22_{t-1} \\
& + drs.25 AUX_EXO_LAG.66.23_{t-1} + drs.26 AUX_EXO_LAG.66.24_{t-1} \\
& + drs.27 AUX_EXO_LAG.66.25_{t-1} + drs.28 AUX_EXO_LAG.66.26_{t-1} \\
& + drs.29 AUX_EXO_LAG.66.27_{t-1} + drs.30 AUX_EXO_LAG.66.28_{t-1}
\end{aligned} \quad (65)$$

$$shockn_t = delall_t \quad (66)$$

$$AUX_ENDO_LAG.39.1_t = k_{t-1} \quad (67)$$

$$AUX_ENDO_LAG.48.1_t = za_{t-1} \quad (68)$$

$$AUX_ENDO_LAG.61.1_t = shockn_{t-1} \quad (69)$$

$$AUX_ENDO_LAG_61_2_t = AUX_ENDO_LAG_61_1_{t-1} \quad (70)$$

$$AUX_ENDO_LAG_61_3_t = AUX_ENDO_LAG_61_2_{t-1} \quad (71)$$

$$AUX_ENDO_LAG_61_4_t = AUX_ENDO_LAG_61_3_{t-1} \quad (72)$$

$$AUX_ENDO_LAG_61_5_t = AUX_ENDO_LAG_61_4_{t-1} \quad (73)$$

$$AUX_ENDO_LAG_61_6_t = AUX_ENDO_LAG_61_5_{t-1} \quad (74)$$

$$AUX_ENDO_LAG_61_7_t = AUX_ENDO_LAG_61_6_{t-1} \quad (75)$$

$$AUX_ENDO_LAG_61_8_t = AUX_ENDO_LAG_61_7_{t-1} \quad (76)$$

$$AUX_ENDO_LAG_61_9_t = AUX_ENDO_LAG_61_8_{t-1} \quad (77)$$

$$AUX_ENDO_LAG_61_10_t = AUX_ENDO_LAG_61_9_{t-1} \quad (78)$$

$$AUX_ENDO_LAG_61_11_t = AUX_ENDO_LAG_61_10_{t-1} \quad (79)$$

$$AUX_ENDO_LAG_61_12_t = AUX_ENDO_LAG_61_11_{t-1} \quad (80)$$

$$AUX_ENDO_LAG_61_13_t = AUX_ENDO_LAG_61_12_{t-1} \quad (81)$$

$$AUX_ENDO_LAG_61_14_t = AUX_ENDO_LAG_61_13_{t-1} \quad (82)$$

$$AUX_ENDO_LAG_61_15_t = AUX_ENDO_LAG_61_14_{t-1} \quad (83)$$

$$AUX_ENDO_LAG_61_16_t = AUX_ENDO_LAG_61_15_{t-1} \quad (84)$$

$$AUX_ENDO_LAG_61_17_t = AUX_ENDO_LAG_61_16_{t-1} \quad (85)$$

$$AUX_ENDO_LAG_61_18_t = AUX_ENDO_LAG_61_17_{t-1} \quad (86)$$

$$AUX_ENDO_LAG_61_19_t = AUX_ENDO_LAG_61_18_{t-1} \quad (87)$$

$$AUX_ENDO_LAG_61_20_t = AUX_ENDO_LAG_61_19_{t-1} \quad (88)$$

$$AUX_ENDO_LAG_61_21_t = AUX_ENDO_LAG_61_20_{t-1} \quad (89)$$

$$AUX_ENDO_LAG_61_22_t = AUX_ENDO_LAG_61_21_{t-1} \quad (90)$$

$$AUX_ENDO_LAG_61_23_t = AUX_ENDO_LAG_61_22_{t-1} \quad (91)$$

$$AUX_ENDO_LAG_61_24_t = AUX_ENDO_LAG_61_23_{t-1} \quad (92)$$

$$AUX_ENDO_LAG_61_25_t = AUX_ENDO_LAG_61_24_{t-1} \quad (93)$$

$$AUX_ENDO_LAG_61_26_t = AUX_ENDO_LAG_61_25_{t-1} \quad (94)$$

$$AUX_ENDO_LAG_61_27_t = AUX_ENDO_LAG_61_26_{t-1} \quad (95)$$

$$AUX_ENDO_LAG_61_28_t = AUX_ENDO_LAG_61_27_{t-1} \quad (96)$$

$$AUX_EXO_LAG_66_0_t = delall_t \quad (97)$$

$$AUX_EXO_LAG_66_1_t = AUX_EXO_LAG_66_0_{t-1} \quad (98)$$

$$AUX_EXO_LAG_66_2_t = AUX_EXO_LAG_66_1_{t-1} \quad (99)$$

$$AUX_EXO_LAG_66_3_t = AUX_EXO_LAG_66_2_{t-1} \quad (100)$$

$$AUX_EXO_LAG_66_4_t = AUX_EXO_LAG_66_3_{t-1} \quad (101)$$

$$AUX_EXO_LAG_66_5_t = AUX_EXO_LAG_66_4_{t-1} \quad (102)$$

$$AUX_EXO_LAG_66_6_t = AUX_EXO_LAG_66_5_{t-1} \quad (103)$$

$$AUX_EXO_LAG_66_7_t = AUX_EXO_LAG_66_6_{t-1} \quad (104)$$

$$AUX_EXO_LAG_66_8_t = AUX_EXO_LAG_66_7_{t-1} \quad (105)$$

$$AUX_EXO_LAG_66_9_t = AUX_EXO_LAG_66_8_{t-1} \quad (106)$$

$$AUX_EXO_LAG_66_10_t = AUX_EXO_LAG_66_9_{t-1} \quad (107)$$

$$AUX_EXO_LAG_66_11_t = AUX_EXO_LAG_66_10_{t-1} \quad (108)$$

$$AUX_EXO_LAG_66_12_t = AUX_EXO_LAG_66_11_{t-1} \quad (109)$$

$$AUX_EXO_LAG_{66.13_t} = AUX_EXO_LAG_{66.12_{t-1}} \quad (110)$$

$$AUX_EXO_LAG_{66.14_t} = AUX_EXO_LAG_{66.13_{t-1}} \quad (111)$$

$$AUX_EXO_LAG_{66.15_t} = AUX_EXO_LAG_{66.14_{t-1}} \quad (112)$$

$$AUX_EXO_LAG_{66.16_t} = AUX_EXO_LAG_{66.15_{t-1}} \quad (113)$$

$$AUX_EXO_LAG_{66.17_t} = AUX_EXO_LAG_{66.16_{t-1}} \quad (114)$$

$$AUX_EXO_LAG_{66.18_t} = AUX_EXO_LAG_{66.17_{t-1}} \quad (115)$$

$$AUX_EXO_LAG_{66.19_t} = AUX_EXO_LAG_{66.18_{t-1}} \quad (116)$$

$$AUX_EXO_LAG_{66.20_t} = AUX_EXO_LAG_{66.19_{t-1}} \quad (117)$$

$$AUX_EXO_LAG_{66.21_t} = AUX_EXO_LAG_{66.20_{t-1}} \quad (118)$$

$$AUX_EXO_LAG_{66.22_t} = AUX_EXO_LAG_{66.21_{t-1}} \quad (119)$$

$$AUX_EXO_LAG_{66.23_t} = AUX_EXO_LAG_{66.22_{t-1}} \quad (120)$$

$$AUX_EXO_LAG_{66.24_t} = AUX_EXO_LAG_{66.23_{t-1}} \quad (121)$$

$$AUX_EXO_LAG_{66.25_t} = AUX_EXO_LAG_{66.24_{t-1}} \quad (122)$$

$$AUX_EXO_LAG_{66.26_t} = AUX_EXO_LAG_{66.25_{t-1}} \quad (123)$$

$$AUX_EXO_LAG_{66.27_t} = AUX_EXO_LAG_{66.26_{t-1}} \quad (124)$$

$$AUX_EXO_LAG_{66.28_t} = AUX_EXO_LAG_{66.27_{t-1}} \quad (125)$$