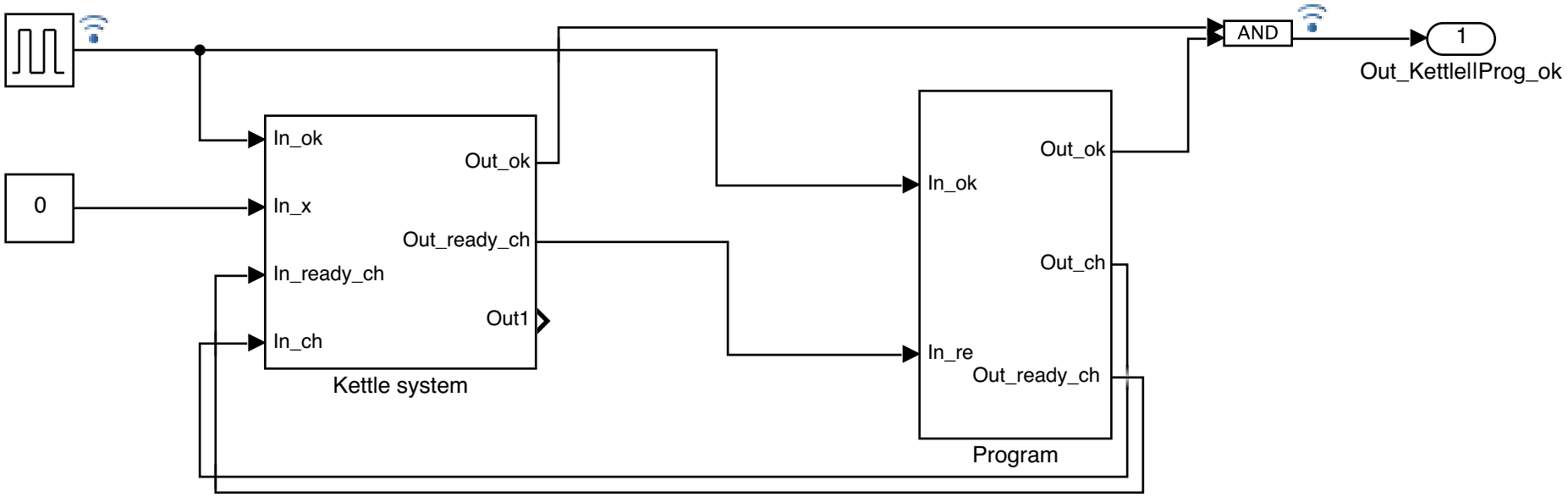
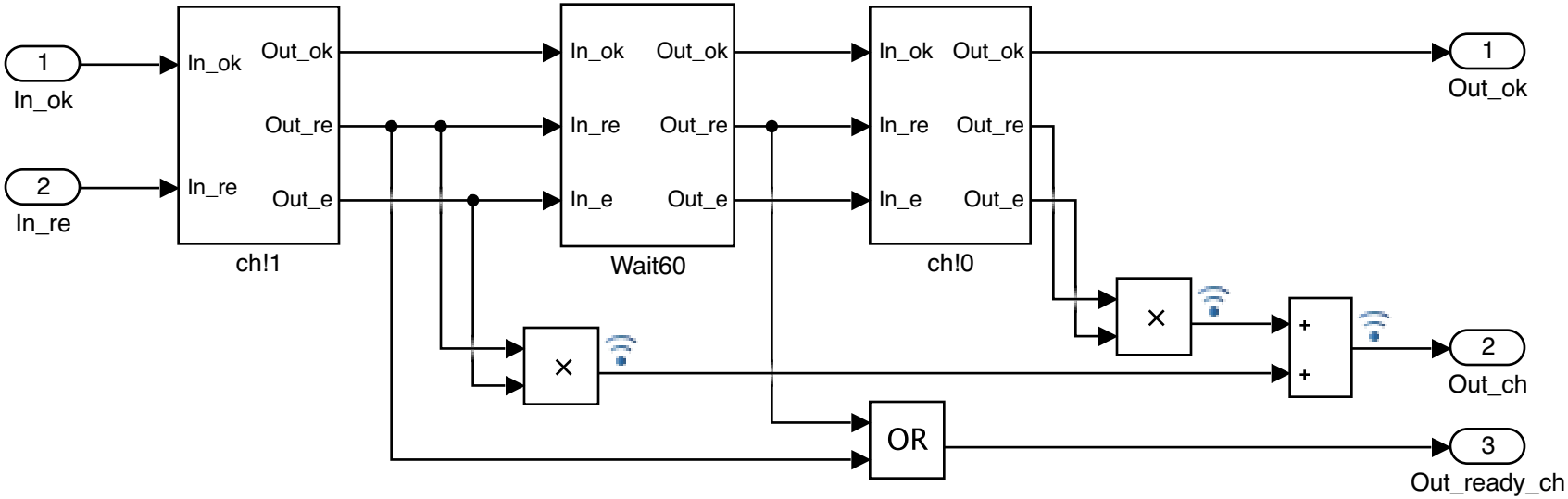
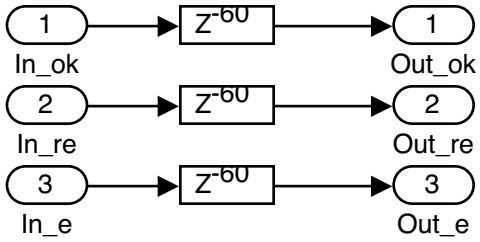
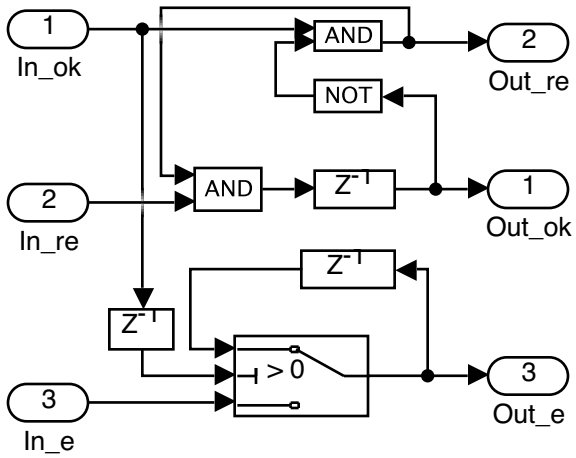

AND
1
Out_KettleIIProg_ok
0
In_ok
Out_ok
In_x
Out_ready_ch
In_ready_ch
Out1
In_ch
Kettle system
Out_ok
In_ok
Out_ch
In_re
Out_ready_ch
Program

||

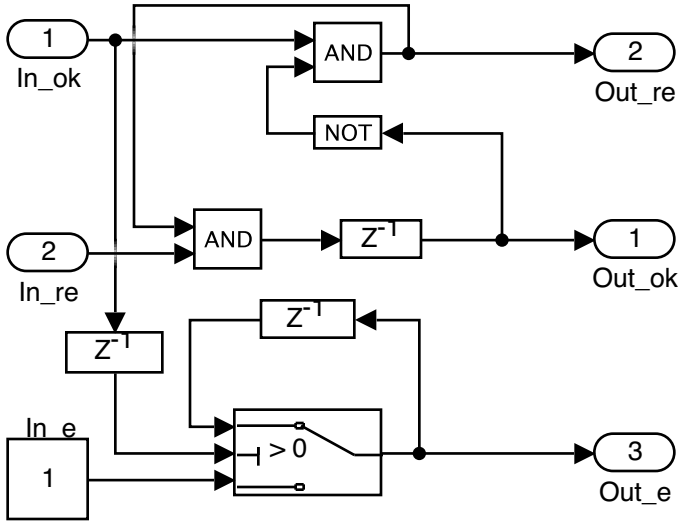

1
In_ok
2
In_re
In_ok
In_re
Out_ok
Out_re
Out_e
ch!1
In_ok
In_re
In_e
Out_ok
Out_re
Out_e
Wait60
In_ok
In_re
In_e
Out_ok
Out_re
Out_e
ch!0
×
×
+
+
OR
1
Out_ok
2
Out_ch
3
Out_ready_ch



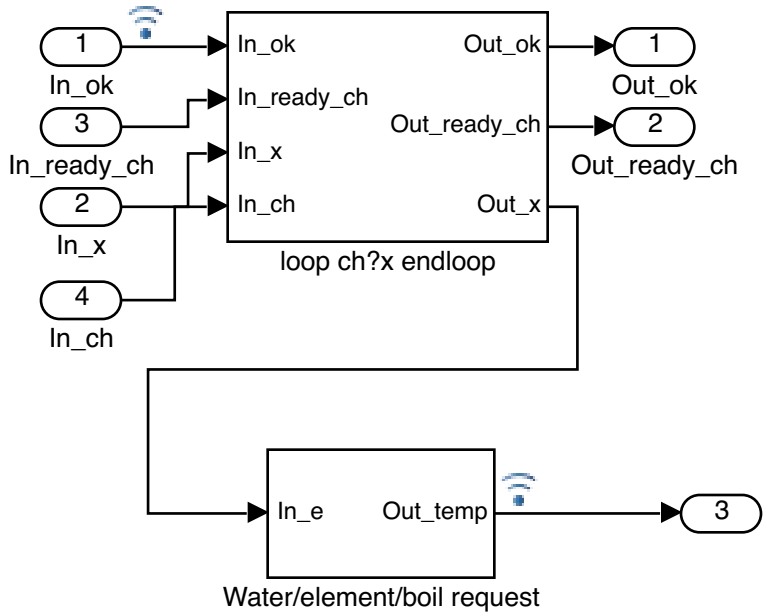
Wait60

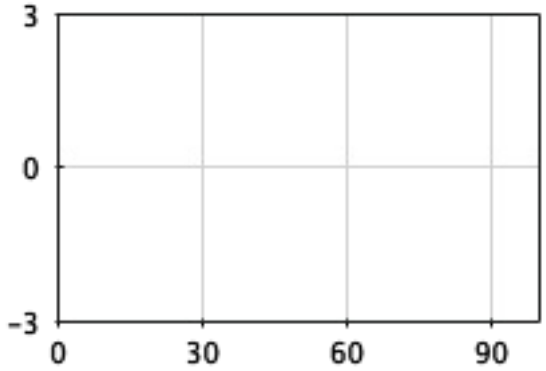


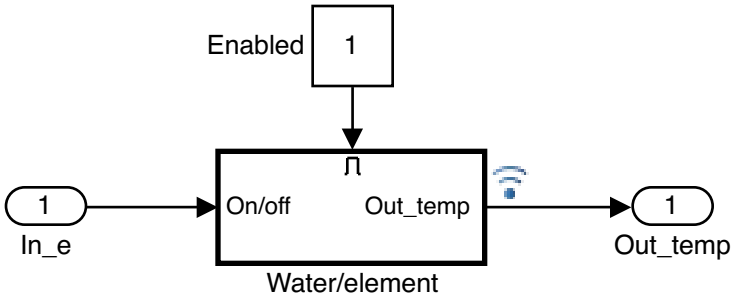
ch!0

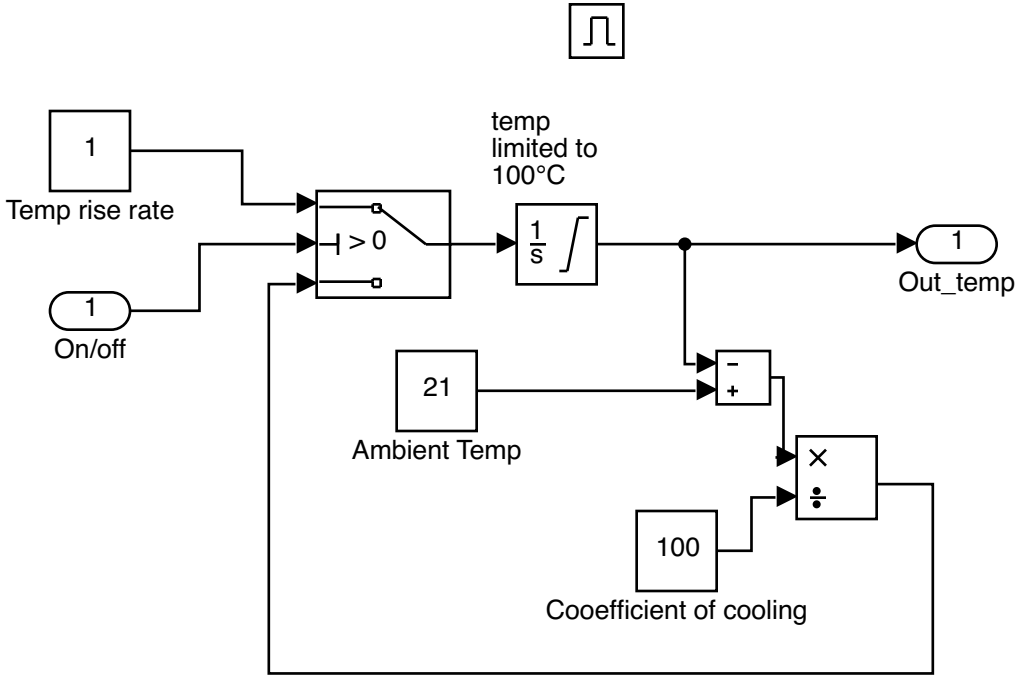


ch!1


1
In_ok
3
In_ready_ch
2
In_x
4
In_ch
In_ok
In_ready_ch
In_x
In_ch
Out_ok
Out_ready_ch
Out_x
loop ch?x endloop
1
Out_ok
2
Out_ready_ch
In_e
Out_temp
3
Water/element/boil request


3
0
-3
0
30
60
90


Enabled
1
On/off
Out_temp
1
In_e
1
Out_temp
Water/element



kettle heats at 1°/sec when asked to boil (On)

kettle cools at [(Ambient - temp)/100]°/sec otherwise (Off)

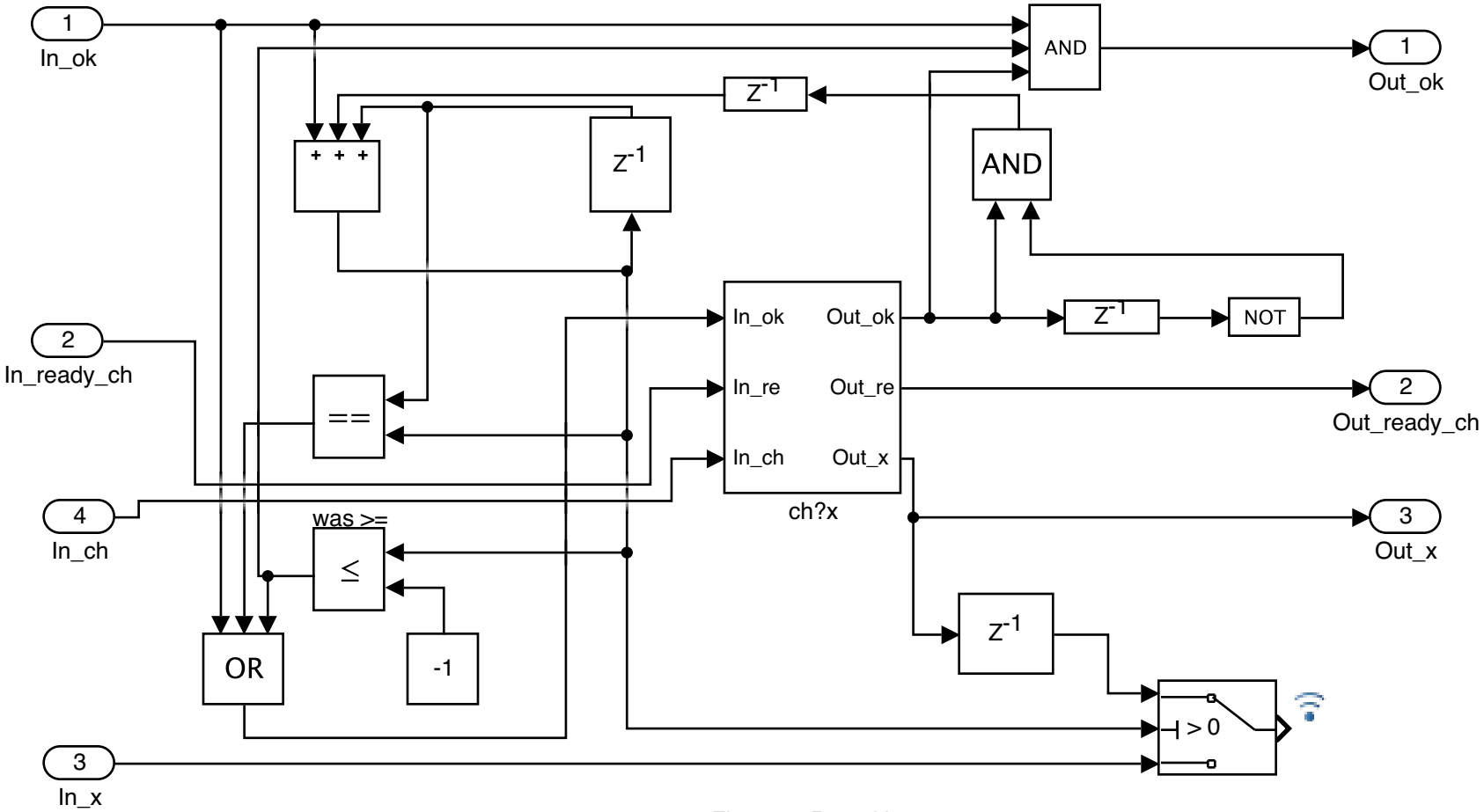
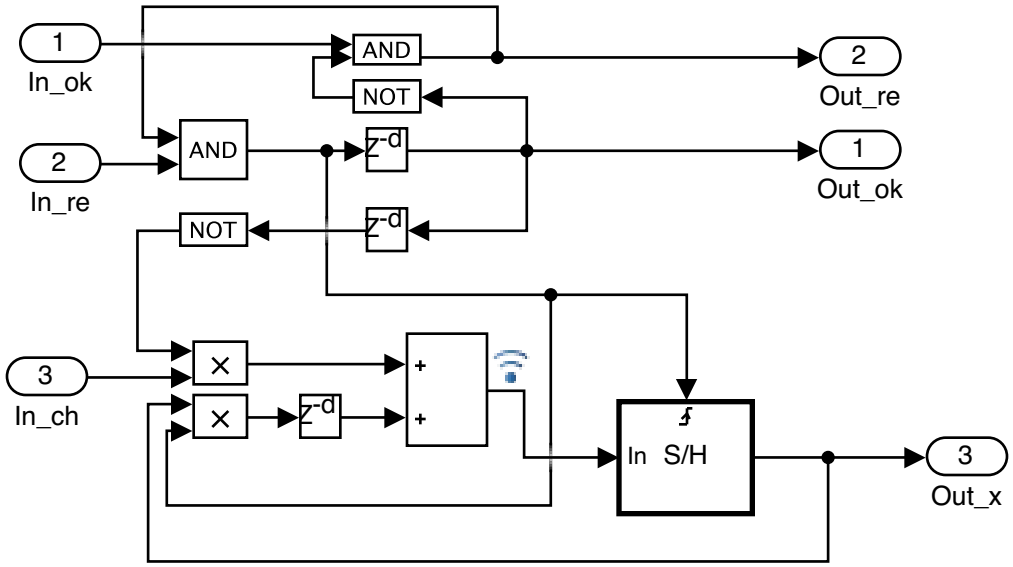


Figure 8: Repetition


1
In_ok
2
In_re
3
In_ch
AND
NOT
AND
NOT
z-d
z-d
z-d
2
Out_re
1
Out_ok
3
Out_x
In S/H

ch?x