address_decoder

ファイル: address_decoder.kicad_sch

TMP_Reg

ファイル: TMP_Reg.kicad_sch

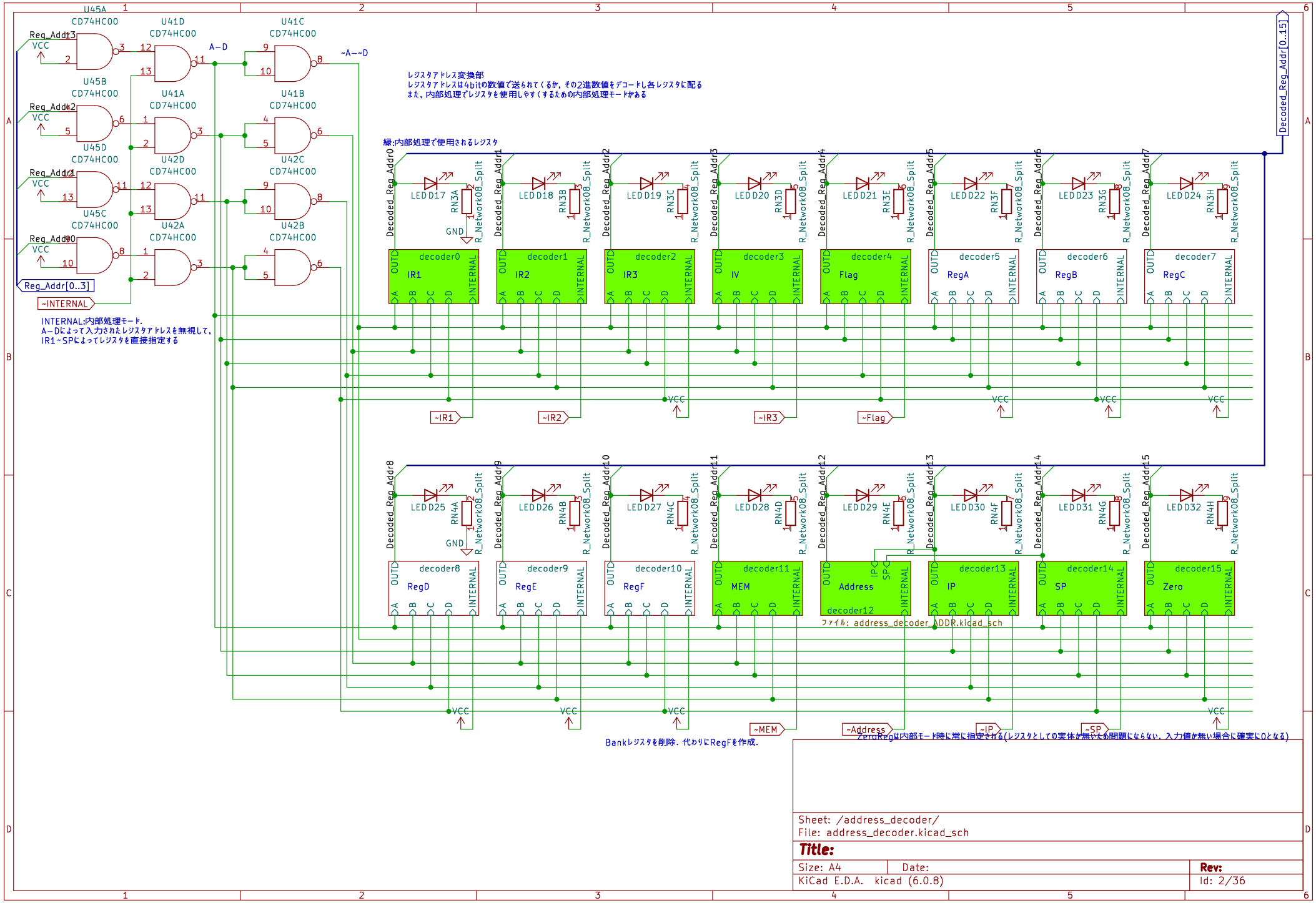
Connector

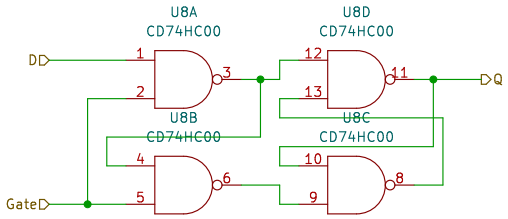
ファイル: Connector.kicad_sch

Sheet: /
File: Y_BUS_Ctrl.kicad_sch

Title:

Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 1/36

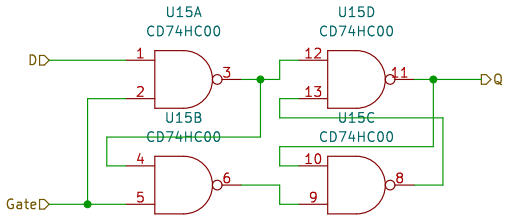

U45A
CD74HC00
U41D
CD74HC00
U41C
CD74HC00
Reg_Addr13
VCC
A-D
~A-~D
U45B
CD74HC00
U41A
CD74HC00
U41B
CD74HC00
Reg_Addr12
U45D
CD74HC00
U42D
CD74HC00
U42C
CD74HC00
Reg_Addr11
U45C
CD74HC00
U42A
CD74HC00
U42B
CD74HC00
Reg_Addr10
Reg_Addr[0..3]
~INTERNAL
INTERNAL:内部処理モード.
A-Dによって入力されたレジスタアドレスを無視して,
IR1~SPによってレジスタを直接指定する
レジスタアドレス変換部
レジスタアドレスは4bitの数値で送られてくるか, その2進数値をデコードし各レジスタに配る
また, 内部処理でレジスタを使用しやすくするための内部処理モードがある
緑:内部処理で使用されるレジスタ
Decoded_Reg_Addr[0..15]
LED D17
RN3A
R_Network08_Split
GND
LED D18
RN3B
LED D19
RN3C
LED D20
RN3D
LED D21
RN3E
LED D22
RN3F
LED D23
RN3G
LED D24
RN3H
decoder0
IR1
decoder1
IR2
decoder2
IR3
decoder3
IV
decoder4
Flag
decoder5
RegA
decoder6
RegB
decoder7
RegC
OUTD
INTERNAL
~IR1
~IR2
~IR3
~Flag
VCC
LED D25
RN4A
LED D26
RN4B
LED D27
RN4C
LED D28
RN4D
LED D29
RN4E
LED D30
RN4F
LED D31
RN4G
LED D32
RN4H
decoder8
RegD
decoder9
RegE
decoder10
RegF
decoder11
MEM
decoder12
Address
IP
SP
decoder13
IP
decoder14
SP
decoder15
Zero
ファイル: address_decoder_ADDR.kicad_sch
~MEM
~Address
~IP
~SP
Bankレジスタを削除. 代わりにRegFを作成.
ZeroRegは内部モード時に常に指定される(レジスタとしての実体が無いため問題にならない. 入力値が無い場合に確実に0となる)
Sheet: /address_decoder/
File: address_decoder.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad (6.0.8)
Id: 2/36



Sheet: /TMP_Reg/Reg1/
File: Reg.kicad_sch

Title:

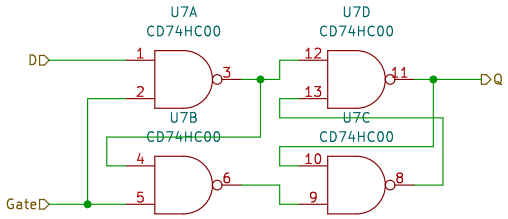
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 3/36



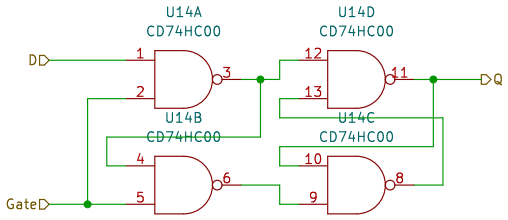
Sheet: /TMP_Reg/Reg2/
File: Reg.kicad_sch

Title:

Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 4/36



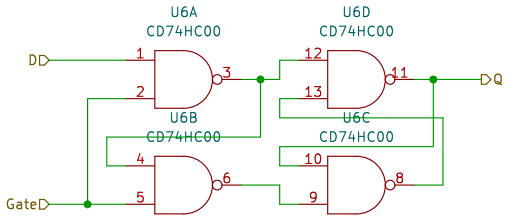
Sheet: /TMP_Reg/Reg3/		
File: Reg.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 5/36



Sheet: /TMP_Reg/Reg4/
File: Reg.kicad_sch

Title:

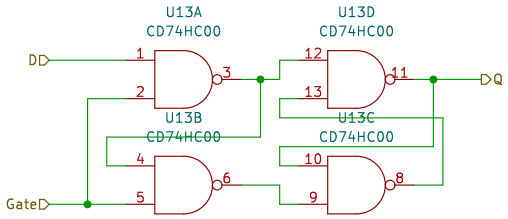
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 6/36



Sheet: /TMP_Reg/Reg5/
File: Reg.kicad_sch

Title:

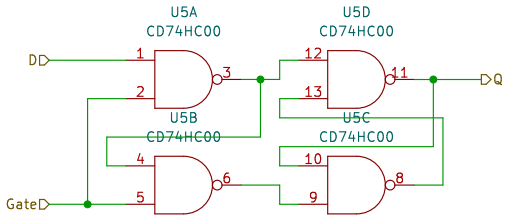
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 7/36



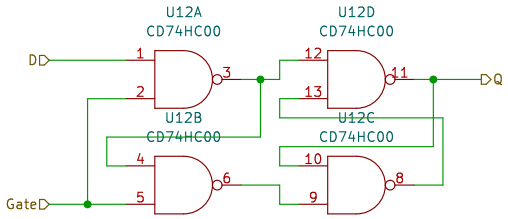
Sheet: /TMP_Reg/Reg6/
File: Reg.kicad_sch

Title:

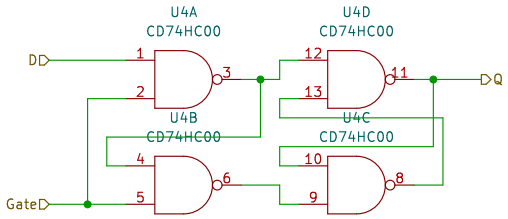
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 8/36



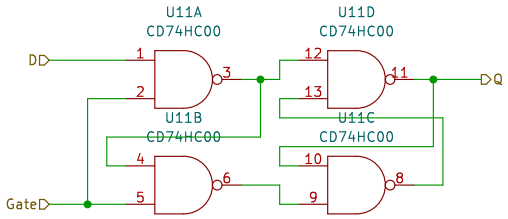
Sheet: /TMP_Reg/Reg7/		
File: Reg.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 9/36



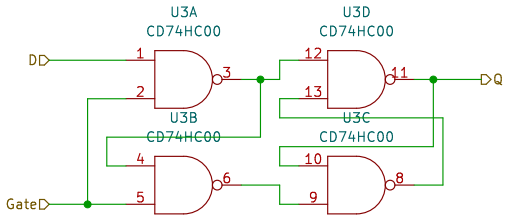
Sheet: /TMP_Reg/Reg8/ File: Reg.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 10/36



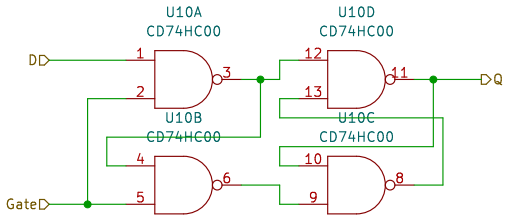
Sheet: /TMP_Reg/Reg9/		
File: Reg.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 11/36



Sheet: /TMP_Reg/Reg10/		
File: Reg.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 12/36



Sheet: /TMP_Reg/Reg11/		
File: Reg.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 13/36



Sheet: /TMP_Reg/Reg12/		
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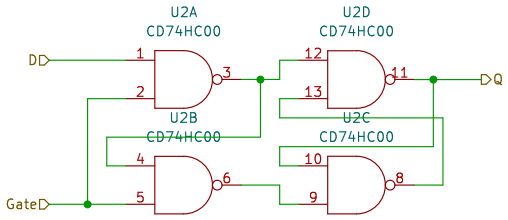
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 14/36



Sheet: /TMP_Reg/Reg13/		
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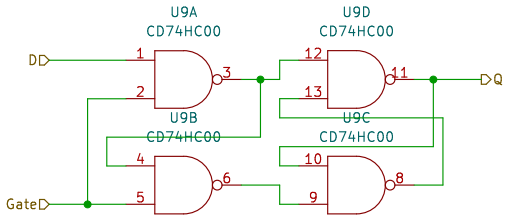
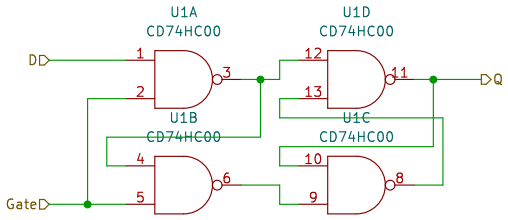
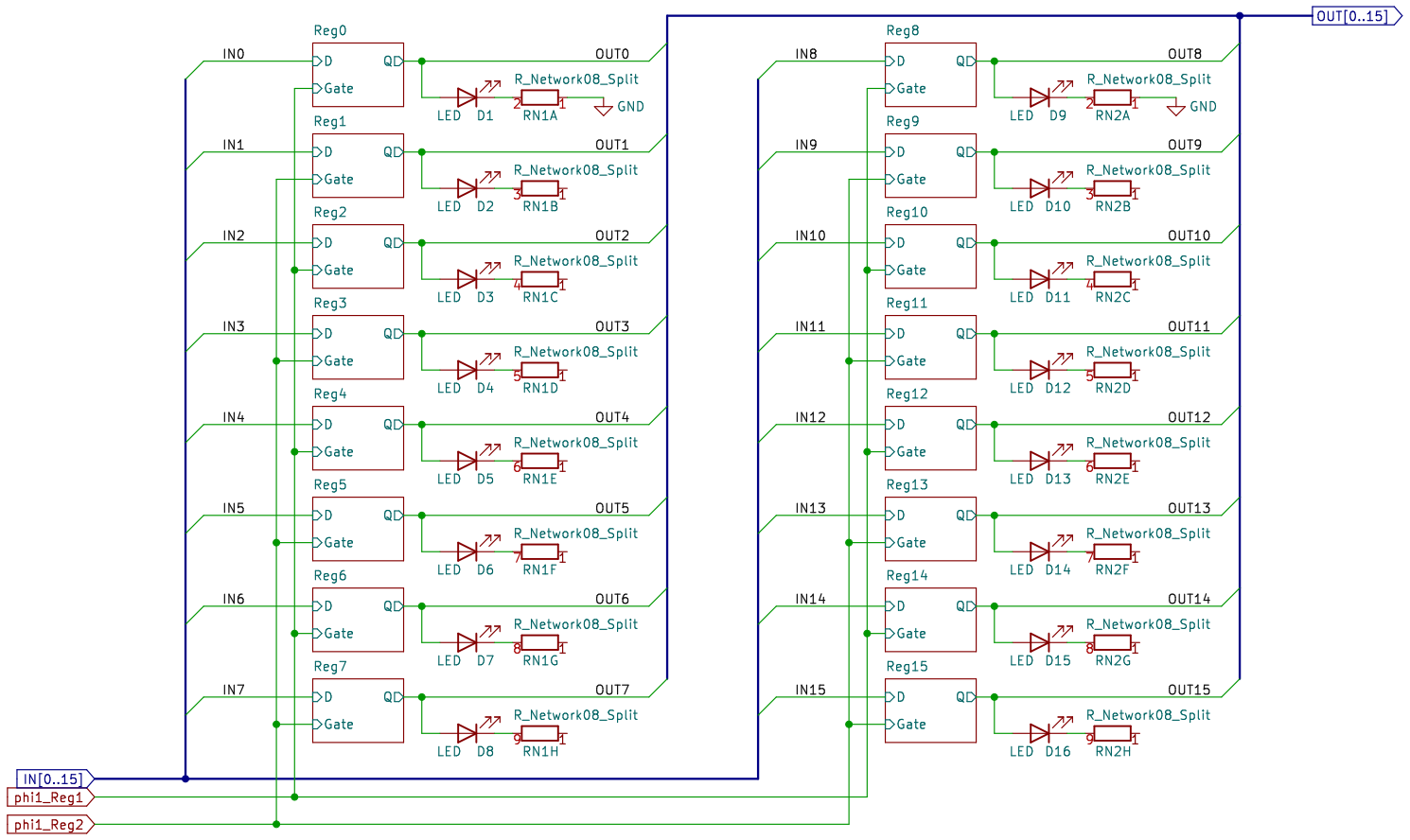
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 15/36



Sheet: /TMP_Reg/Reg14/		
File: Reg.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 16/36



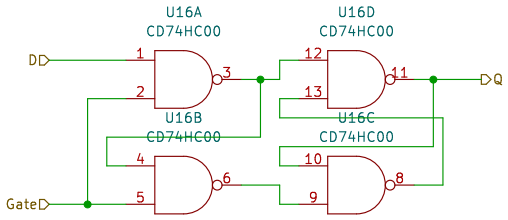
Sheet: /TMP_Reg/Reg15/		
File: Reg.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 17/36



Sheet: /TMP_Reg/
File: TMP_Reg.kicad_sch

Title:

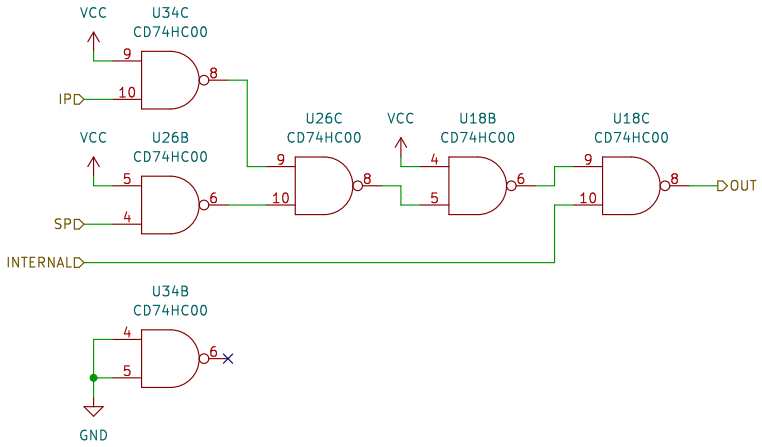
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 19/36



Sheet: /TMP_Reg/Reg0/
File: Reg.kicad_sch

Title:

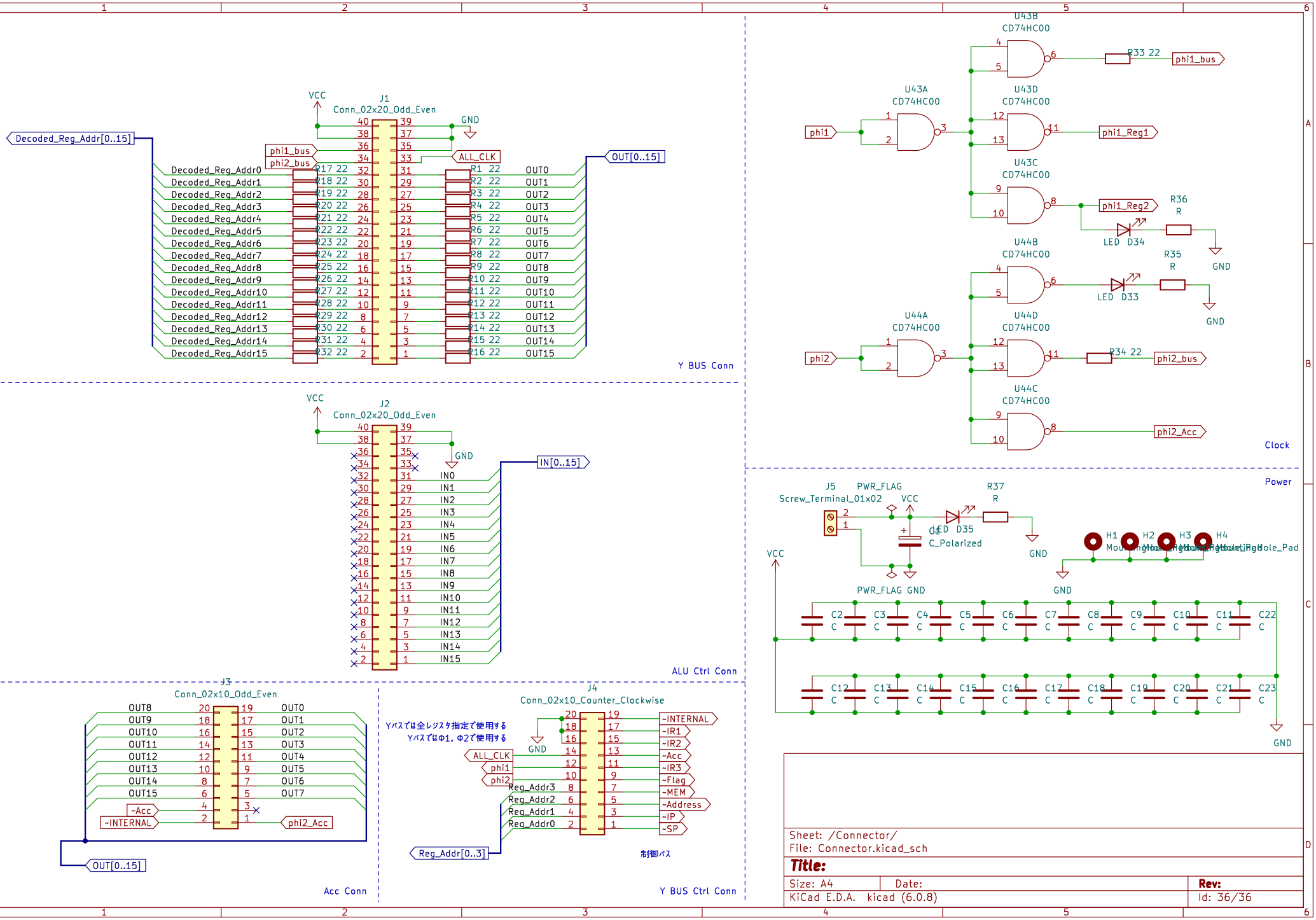
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 20/36



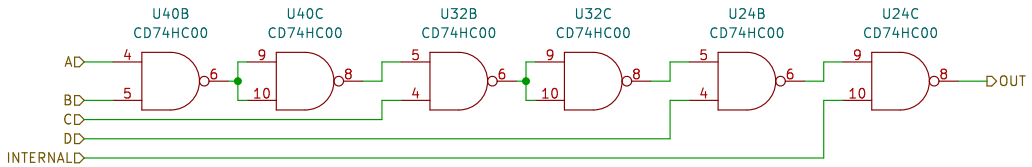
Sheet: /address_decoder/decoder12/
File: address_decoder_ADDR.kicad_sch

Title:

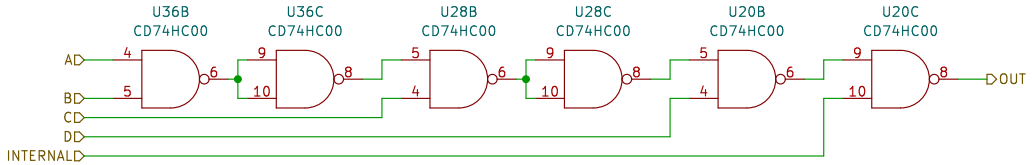
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: 36/36



J1
Conn_02x20_Odd_Even
VCC
GND
Decoded_Reg_Addr[0..15]
phi1_bus
phi2_bus
ALL_CLK
OUT[0..15]
Y BUS Conn
J2
Conn_02x20_Odd_Even
IN[0..15]
ALU Ctrl Conn
J3
Conn_02x10_Odd_Even
~Acc
~INTERNAL
phi2_Acc
OUT[0..15]
Acc Conn
J4
Conn_02x10_Counter_Clockwise
Yバスでは全レジスタ指定で使用する
Yバスではφ1, φ2で使用する
Reg_Addr[0..3]
制御バス
Y BUS Ctrl Conn
U43A
CD74HC00
U43B
CD74HC00
U43C
CD74HC00
U43D
CD74HC00
U44A
CD74HC00
U44B
CD74HC00
U44C
CD74HC00
U44D
CD74HC00
phi1
phi2
phi1_Reg1
phi1_Reg2
phi2_Acc
R33 22
R34 22
R35
R36
R
LED D34
LED D33
Clock
Power
J5
Screw_Terminal_01x02
PWR_FLAG
R37
R
LED D35
C1
C_Polarized
H1
H2
H3
H4
Sheet: /Connector/
File: Connector.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad (6.0.8)
Id: 36/36



Sheet: /address_decoder/decoder0/		
File: decoder.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: #/36



Sheet: /address_decoder/decoder8/		
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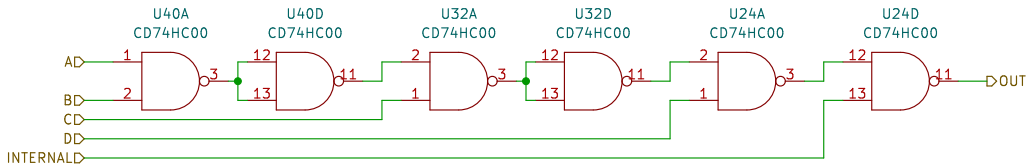
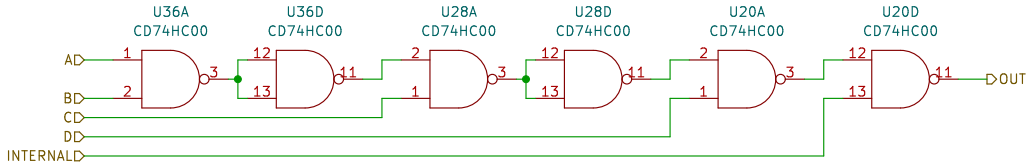
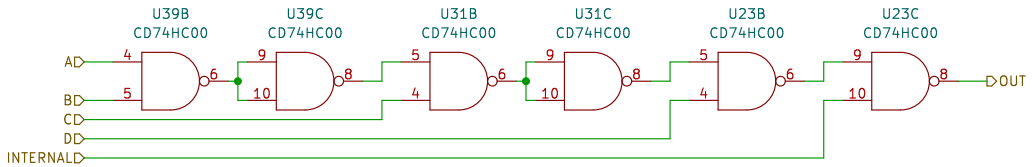
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: #/36



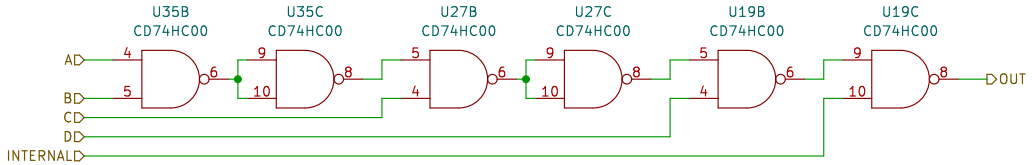
Sheet: /address_decoder/decoder1/	
File: decoder.kicad_sch	
Title:	
Size: A4	Date:
KiCad E.D.A. kicad (6.0.8)	Id: #/36



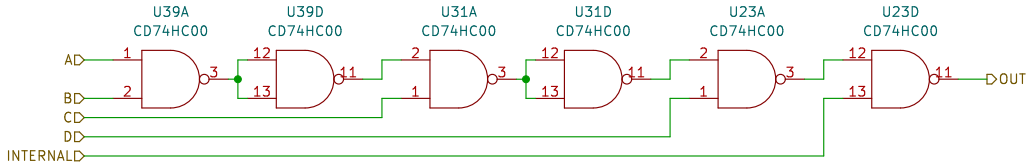
Sheet: /address_decoder/decoder9/		
File: decoder.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: #/36



Sheet: /address_decoder/decoder2/		
File: decoder.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: #/36



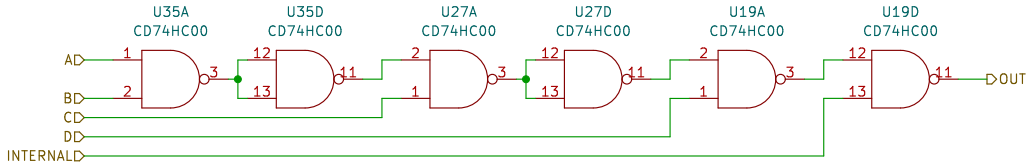
Sheet: /address_decoder/decoder10/		
File: decoder.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: #/36



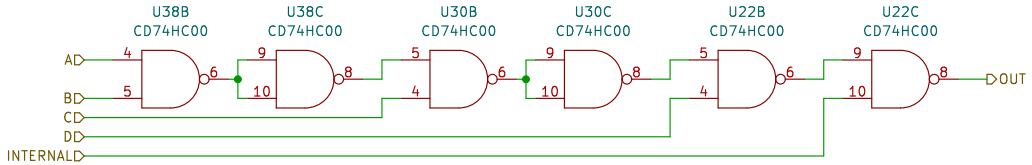
Sheet: /address_decoder/decoder3/
File: decoder.kicad_sch

Title:

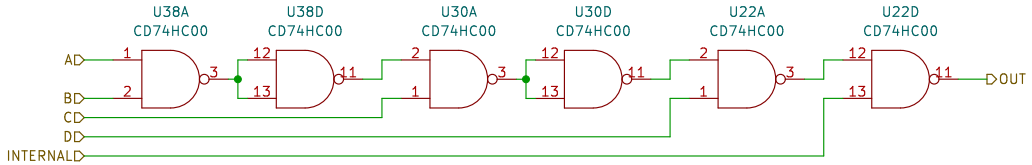
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: #/36



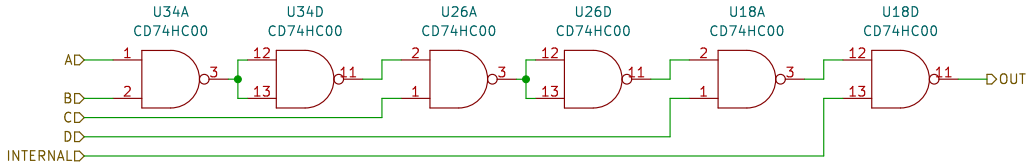
Sheet: /address_decoder/decoder11/		
File: decoder.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: #/36



Sheet: /address_decoder/decoder4/		
File: decoder.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: #/36



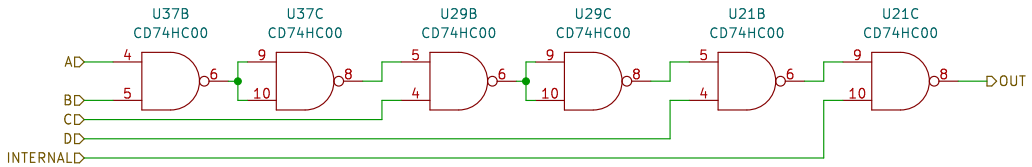
Sheet: /address_decoder/decoder5/		
File: decoder.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: #/36



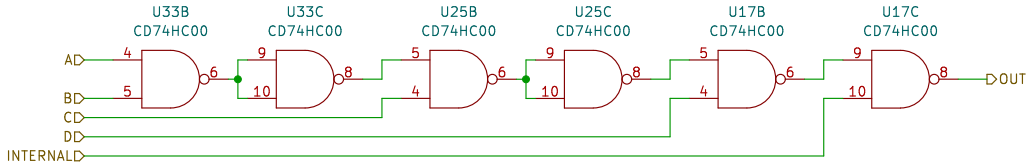
Sheet: /address_decoder/decoder13/
File: decoder.kicad_sch

Title:

Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: #/36



Sheet: /address_decoder/decoder6/		
File: decoder.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.8)		Id: #/36



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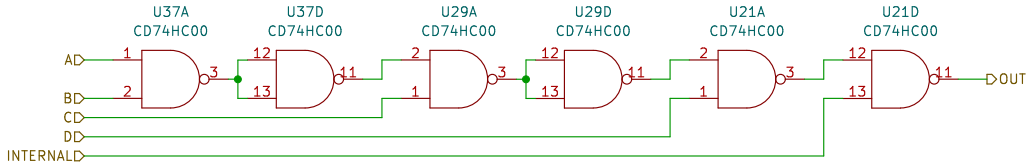

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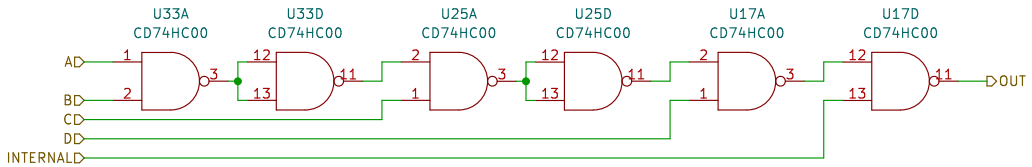

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KiCad E.D.A. kicad (6.0.8)		Id: #/36