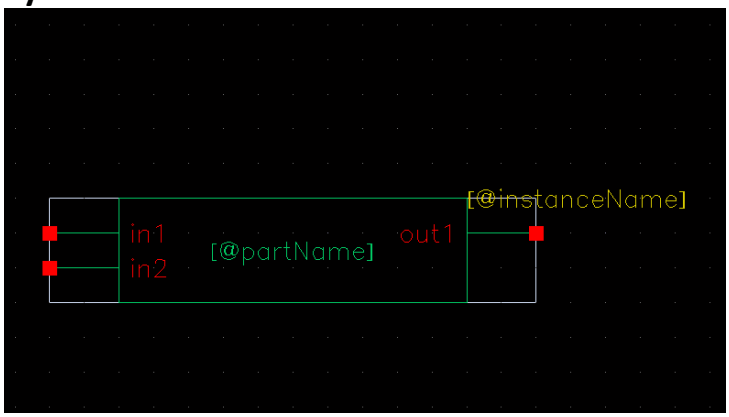
Name:_____

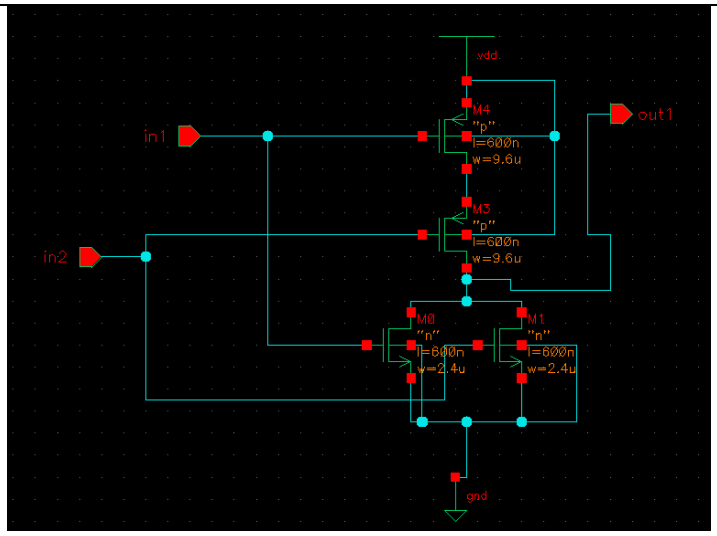
Library Name:	
Cell Name:	**Zxw_nor**
Function/Truth Table:	
0 0	**1**
0 1	**0**
1 0	**0**
1 1	**0**
Propagation Delay:	
A rising	**.36ns**
A falling	**.29ns**
B rising	**.2529ns**
B falling	**.31ns**
Layout Area: 488.8 um^2	

Name:_____

Symbol with Port Names:

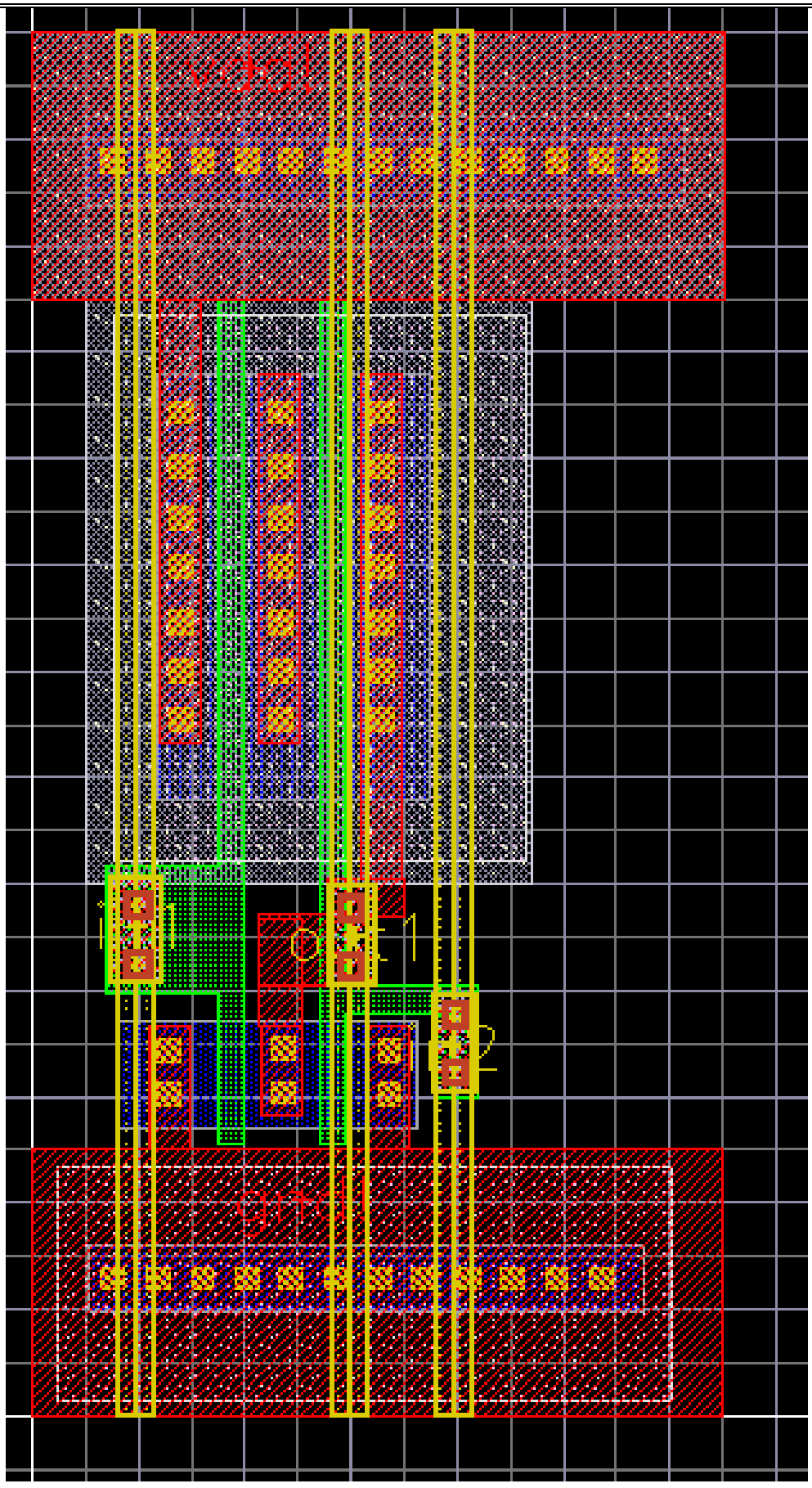


Schematic:



Name:_____

Layout:



Verilog Model:

```
module zxw_nor ( in1,in2,out1);
        input in1;
        input in2;
        output out1;
        nor(out1,in1,in2);
endmodule
```

Comments/Notes:

```
*
*
*
*                LINUX        Fri Sep 26 12:38:51 2014
*
*
*
*  PROGRAM  advgen
*
*  CDL LIBRARY
*
*
*
*
.SUBCKT zxw_nor vdd! gnd! in1 in2 out1
*
*
*  caps2d version: 7
*
*
*      TRANSISTOR CARDS
*
*
M1    out1#4      in2#3 gnd!#1      gnd!#2      nmos L=0.6  W=2.4
+ AD=2.04   AS=3.84     PD=1.7      PS=5.6
M0    out1#4      in1#5 gnd!#4      gnd!#2      nmos L=0.6  W=2.4
+ AD=2.04   AS=5.4      PD=1.7      PS=6.9
```

```
M3    out1#3      in2#4 net29 vdd!#1      pmos L=0.6  W=9.6
+ AD=18.24  AS=8.16     PD=13.4     PS=1.7
M4    net29 in1#3 vdd!#2      vdd!#1      pmos L=0.6  W=9.6
+ AD=8.16   AS=13.44    PD=1.7      PS=12.4
*
*
*     RESISTOR AND CAP/DIODE CARDS
*
Re1   in1#3 in1#4   380.1466
Re2   in1#4 in1#1    18.9474
Re3   in1#4 in1#5   157.6466
Re4   in2#1 in2#2   163.3047
Re5   in2#2 in2#3    82.7034
Re6   in2#2 in2#4   462.7034
Rc1   in1#1 in1#2    20.5000
Rc2   out1#3      out1#1        15.0196
Rc3   out1#1      out1#4        40.2812
Rc4   in2#5 in2#1     0.5000
Rc5   gnd!#1      gnd!#3        40.2179
Rc6   gnd!#3      gnd!   1.735E-02
Rc7   gnd!  gnd!#4         40.2531
Rc8   gnd!#2      gnd!#3         8.3333
Rc9   vdd!#1      vdd!     6.1946
Rc10  vdd!  vdd!#2         14.9217
Rb1   in1   in1#2     0.5000
Rb2   out1#1      out1     1.0000
Rb3   in2   in2#5     0.5000
*
*     CAPACITOR CARDS
*
*
C1    in1#1 vdd!#2      7.882E-18
C2    vdd!  in1#3 1.055E-16
C3    gnd!#1      out1#1      3.983E-17
C4    vdd!  gnd!#2      6.208E-17
C5    gnd!#4      in1#1 6.292E-17
```

C6	gnd!#1	in2#2	4.484E-17
C7	gnd!#4	out1#4	6.074E-17
C8	in1#3	in2#4	3.072E-17
C9	out1#4	in1#4	3.848E-17
C10	out1#1	in1#4	1.028E-16
C11	out1#4	in2#2	4.321E-17
C12	vdd!#2	in1#4	1.731E-17
C13	in1#5	in2#3	7.286E-18
C14	out1	gnd!#2	1.895E-16
C15	out1#1	in2#4	3.174E-17
C16	out1#1	in2#2	3.042E-16
C17	out1	vdd!#1	2.048E-16
C18	vdd!#1	gnd!#2	2.339E-16
C19	out1	gnd!#1	6.173E-17
C20	gnd!#4	in1#4	1.999E-17
C21	out1#3	vdd!#1	4.926E-17
C22	out1#3	in2#4	2.407E-16
C23	out1	in2#2	1.402E-17
C24	vdd!#1	in2#4	7.623E-17
C25	out1#4	gnd!#2	2.599E-17
C26	in1#1	out1#1	2.336E-17
C27	in1#4	in2#2	4.537E-17
C28	in2#3	gnd!#2	2.756E-16
C29	in1#4	in2#4	7.754E-18
C30	in1#5	gnd!#2	2.338E-16
C31	gnd!#1	in2#3	4.731E-17
C32	vdd!#2	in1#3	2.600E-16
C33	in2#1	gnd!#2	5.934E-16
C34	out1#4	in2#3	4.596E-17
C35	in1#4	gnd!#2	4.860E-16
C36	in1#1	gnd!#2	6.333E-16
C37	out1#4	gnd!#1	5.451E-17
C38	in2#2	gnd!#2	5.280E-16
C39	out1#4	in1#5	5.247E-17
C40	gnd!#1	in2#1	5.452E-17
C41	in2#5	gnd!#2	9.921E-17

C42	gnd!#4	in1#5	9.578E-17
C43	out1#1	gnd!#2	1.999E-16
C44	gnd!#1	in2#5	1.049E-16
C45	in2	out1#1	1.665E-16
C46	in2	gnd!#1	4.438E-17
C47	out1	net29	8.674E-17
C48	in1	gnd!#2	2.087E-16
C49	in1	vdd!	2.350E-16
C50	net29	in1#4	1.665E-17
C51	net29	vdd!	5.573E-17
C52	net29	in2#4	2.059E-16
C53	in1	out1#1	2.899E-17
C54	in1	out1	5.575E-16
C55	net29	in1#3	2.134E-16
C56	in1	out1#4	9.798E-18
C57	in2	gnd!#2	5.988E-16
C58	in1	net29	2.642E-17
C59	in1	vdd!#2	1.842E-16
C60	out1	in2	1.355E-15
C61	in2	out1#3	1.242E-16
C62	out1#1	net29	2.807E-17
C63	vdd!#2	net29	2.589E-16
C64	in1	gnd!#4	3.701E-16
C65	net29	out1#3	2.066E-16
C66	in2	vdd!#1	3.745E-16
C67	out1#4	in2#5	3.654E-18
C68	vdd!	gnd!	1.479E-15
C69	in1	gnd!	5.836E-16
C70	in2	gnd!	5.195E-16
C71	out1	gnd!	3.754E-17
C72	in2#4	gnd!	8.885E-16
C73	in1#3	gnd!	7.881E-16
C74	in2#3	gnd!	2.035E-17
C75	in1#5	gnd!	4.221E-17
C76	in2#1	gnd!	2.262E-18
C77	in1#1	gnd!	1.775E-16

```
C78   out1#1      gnd!  1.076E-16
C79   vdd!#1      gnd!  2.015E-15
C80   out1#4      gnd!  1.009E-16
C81   vdd!#2      gnd!  7.439E-17
C82   in1#4 gnd!  3.559E-16
C83   in2#2 gnd!  2.174E-16
*
*
.ENDS zxw_nor
*
```