********** SPICE DECK CONTINUED **********

```
C9 121 gnd 124.93fF
C11 O gnd 84.13fF
C12 150 gnd 10.91fF
C13 151 gnd 10.91fF
C14 152 gnd 10.91fF
C15 153 gnd 10.91fF
```

********** SPICE DECK **********

*** Generated from aof2301.mag by magic's spice generator
*** technology: scmos
*** extraction style: lambda=1.0
*** units per lambda: dlm V2.20
*** timestamp: 628905226
*** version: dlm V2.2
*** Capacitance Threshold = 5000 units
*** Resistance Scale = 1000 units

M8x49 120 20 121 vdd PMOS W=21.0U L=2.0U
M16x49 121 21 120 vdd PMOS W=21.0U L=2.0U
M24x49 120 C1 121 vdd PMOS W=21.0U L=2.0U
M32x49 121 D2 vdd vdd PMOS W=21.0U L=2.0U
M40x49 121 24 vdd vdd PMOS W=21.0U L=2.0U
M48x49 121 25 vdd vdd PMOS W=21.0U L=2.0U
M56x41 O 120 vdd vdd PMOS W=29.0U L=2.0U
M12x4 150 20 gnd gnd NMOS W=18.0U L=2.0U
M16x4 150 21 151 gnd NMOS W=18.0U L=2.0U
M20x4 151 C1 120 gnd NMOS W=18.0U L=2.0U
M28x4 120 D2 152 gnd NMOS W=18.0U L=2.0U
M32x4 152 24 153 gnd NMOS W=18.0U L=2.0U
M36x4 153 25 gnd gnd NMOS W=18.0U L=2.0U
M54x4 O 120 gnd gnd NMOS W=16.0U L=2.0U
C1 121 vdd 7.61fF
C2 20 gnd 10.85fF
C3 21 gnd 9.76fF
C4 C1 gnd 10.37fF
C5 D2 gnd 11.01fF
C6 24 gnd 11.46fF
C7 25 gnd 11.67fF
C8 120 gnd 133.59fF

2-micron delay information.

Path	Timing	Nominal Case		Worst Case	
		No Load	1pF	No Load	1pF
A1,B1,C1---O	Pd 0--1	2.24	3.96	6.67	10.34
	Pd 1--0	2.26	3.18	5.64	8.09
	Tr 0--1	1.52	5.59	2.95	9.13
	Tf 1--0	1.46	4.04	2.81	6.81
D2,E2,F2---O	Pd 0--1	3.05	4.58	8.71	12.39
	Pd 1--0	2.47	3.65	5.94	8.82
	Tr 0--1	2.52	5.82	3.12	9.25
	Tf 1--0	1.52	4.56	2.92	7.20

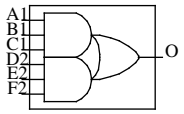
Cell Device Sizes

Transistor	Width (λ)	Length (λ)
50	18	2
51	18	2
52	18	2
53	18	2
54	18	2
55	18	2
56	16	2
26	29	2
23	21	2
21	21	2
22	21	2
20	21	2
25	21	2
24	21	2

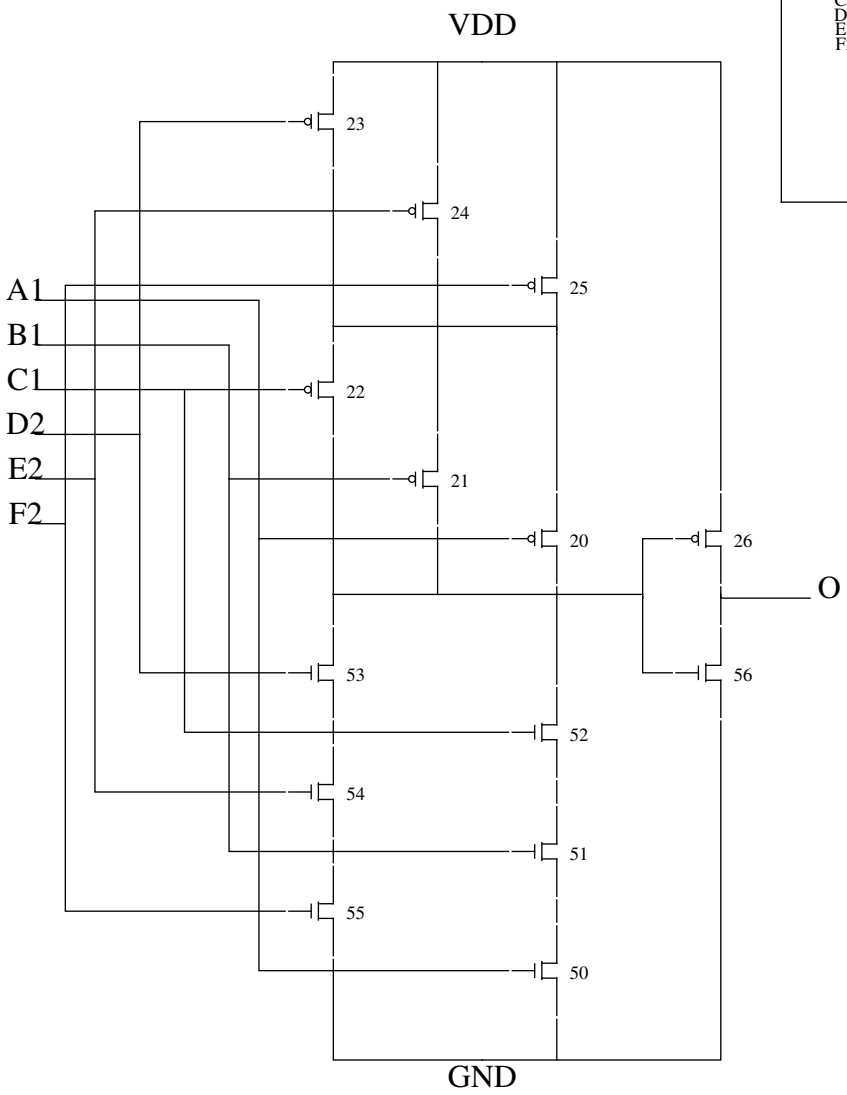
Institute for Technology Development

ADVANCED MICROELECTRONICS DIVISION

SCALABLE CMOS (SCMOS) DOUBLE METAL I / C STANDARD CELL LIBRARY	**aof2301** 2/3_AND/OR_MUX	DATE: Mar 2,1990 VERSION: dlmV2.2



SYMBOL



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TERMINAL LOCATION (In Lambda)

GRID	PIN_NAME	Y_LOC	CLASS
1	A1	30	1
2	B1	35	1
3	FeedThru	----	----
4	C1	45	1
5	D2	36	2
6	F2	40	2
7	E2	31	2
8	O	33	0

LOGIC EQUATIONS: O = ABC + DEF

Truth Table

ABC	DEF	O
-	1	1
1	-	1