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

*** Generated from aof2301.mag by magic's spice generator
*** technology: scmos
*** timestamp: 598548647
*** version: dlm V2.0
*** Capacitance Threshold = 5000000 units
*** Resistance Scale = 1000 units

M8x46 120 20 121 vdd PMOS W=21.0U L=2.0U
M16x46 121 21 120 vdd PMOS W=21.0U L=2.0U
M24x46 120 C1 121 vdd PMOS W=21.0U L=2.0U
M32x46 121 D2 vdd vdd PMOS W=21.0U L=2.0U
M40x46 vdd E2 121 vdd PMOS W=21.0U L=2.0U
M48x46 121 F2 vdd vdd PMOS W=21.0U L=2.0U
M56x38 vdd 120 O vdd PMOS W=29.0U L=2.0U
M12x1 gnd 20 150 gnd NMOS W=18.0U L=2.0U
M16x1 150 21 151 gnd NMOS W=18.0U L=2.0U
M20x1 151 C1 120 gnd NMOS W=18.0U L=2.0U
M28x1 120 D2 152 gnd NMOS W=18.0U L=2.0U
M32x1 152 E2 153 gnd NMOS W=18.0U L=2.0U
M36x1 153 F2 gnd gnd NMOS W=18.0U L=2.0U
M54x1 gnd 120 O gnd NMOS W=16.0U L=2.0U

2-micron delay information.

Path	Timing	Nominal Case		Worst Case	
		No Load	1pF	No Load	1pF
A1,B1,C1---O	Pd 0--1	2.82	4.68	6.20	10.30
	Pd 1--0	2.77	4.37	6.09	9.61
	Tr 0--1	1.20	4.44	2.64	9.77
	Tf 1--0	0.89	3.04	1.96	6.69
D2,E2,F2---O	Pd 0--1	3.50	5.42	7.70	11.92
	Pd 1--0	2.84	4.69	6.25	10.32
	Tr 0--1	2.05	4.56	4.51	10.03
	Tf 1--0	1.03	3.09	2.27	6.80

3-micron delay information.

Path	Timing	Nominal Case		Worst Case	
		No Load	1pF	No Load	1pF
A1,B1,C1---O	Pd 0--1	7.37	9.90	15.08	18.65
	Pd 1--0	6.77	8.99	12.38	16.22
	Tr 0--1	3.77	7.56	6.45	11.54
	Tf 1--0	2.34	5.51	5.49	7.73
D2,E2,F2---O	Pd 0--1	9.22	12.32	18.12	22.26
	Pd 1--0	7.88	10.68	14.19	18.74
	Tr 0--1	4.22	8.71	7.17	13.14
	Tf 1--0	2.73	5.29	4.32	8.16

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
25	21	2
24	21	2
23	21	2
21	21	2
22	21	2
20	21	2

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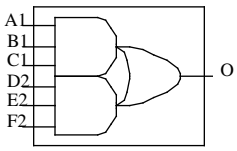
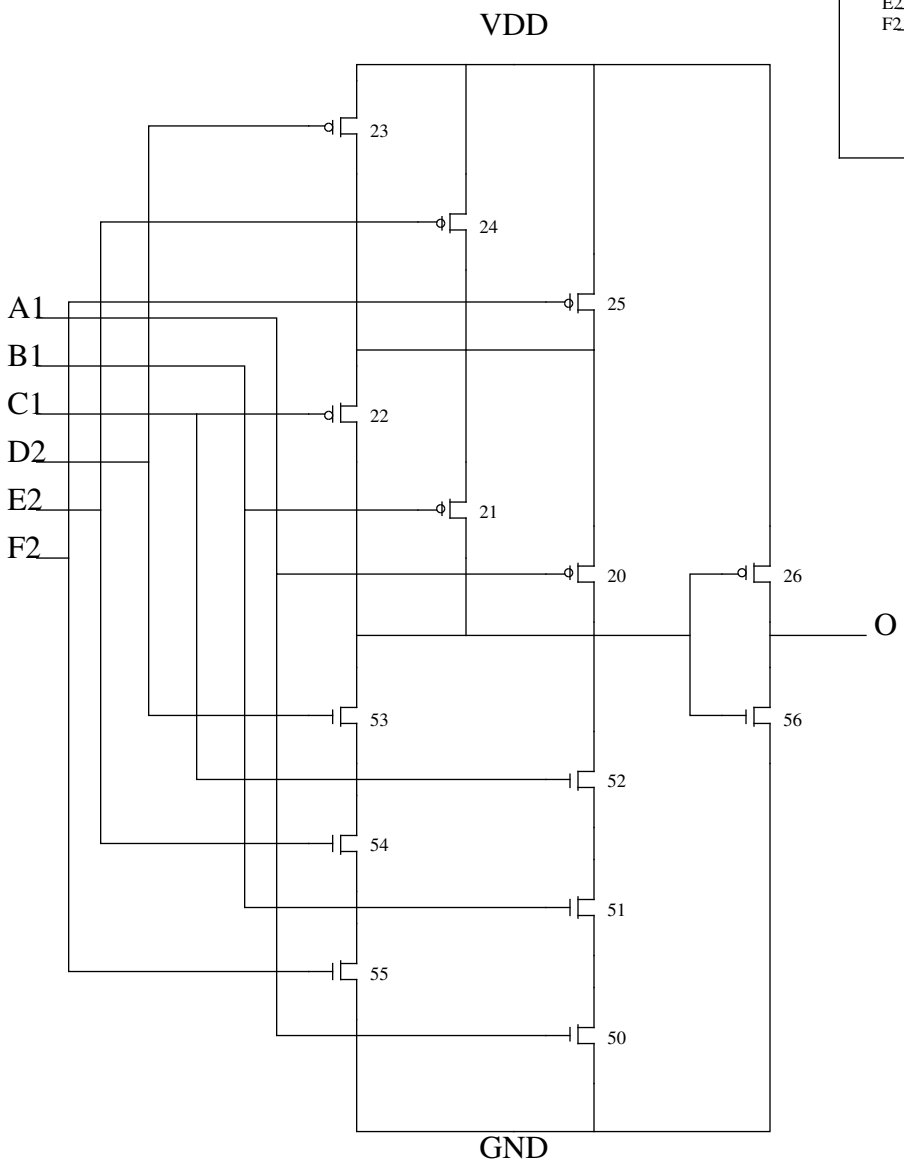
ADVANCED MICROELECTRONICS DIVISION

SCALABLE CMOS (SCMOS) DOUBLE METAL I / C STANDARD CELL LIBRARY	**aof2301** 2/3_AND/OR_MUX	DATE: Dec 21,1988 VERSION: dlmV2.0



SYMBOL



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TERMINAL LOCATION (In Lambda)

GRID	PIN_NAME	Y_LOC	CLASS
1	A1	27	1
2	B1	32	1
3	FeedThru	----	----
4	C1	42	1
5	D2	33	2
6	F2	37	2
7	E2	28	2
8	O	30	0

LOGIC EQUATIONS: O = ABC + DEF

Truth Table

ABC	DEF	O
-	1	1
1	-	1