AVLST

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(m 1) m 5	0-01
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ml mb	0-10
m3 m1)	- 011
(m4) m5	010-
(m4) m6	01-0
m5 (m13)	-101
m6 m14	-110
m10 - 11	101-
m10 m19	1-10

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1 1 Escatal pime

- · (our that maininger #letraly: beted + ac
- · (our that minimizes # variable : be + cd + bed

 $\begin{cases} x = ad + bc + be + ab + ae \\ y = ad + cd + ce + ef + h \end{cases}$

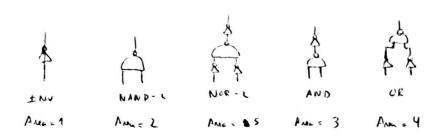
- · K(x) = { (bd+bg+e), (adrete + ag), (b+a), (abd+be+be+abg+ae)}
- · (ok(x)= { a, b, e, 1}
- · K(y) = { (d+e), (ae+c), (ad+c+f), (ale +cd+ce+of+h)}
- · (okly) = { c, d, e, 1 }

Best multicula dinior = {ad+c+e+as} / {ad+c+} = {ad+c} = w

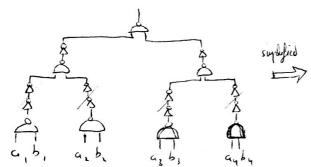
Now mode: w = adtc

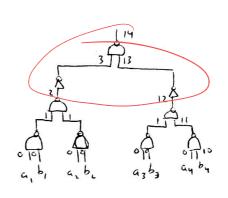
(x = wb + be + abs + ae (y = w (e+d) + ce + ef + h 1,5





· f = a,b, + a,b, + a,b, + a,b,

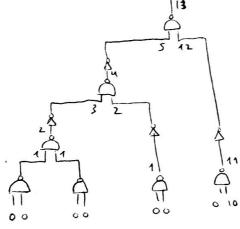






Area = 7 NAND-2 + 2 ±NV = 14 + 2 = 16 unts Delay = 14 units of time

. We can optimize in terms of delay with a new distribution



Area = 16 units Delay = 13 units

Incorrect mapping

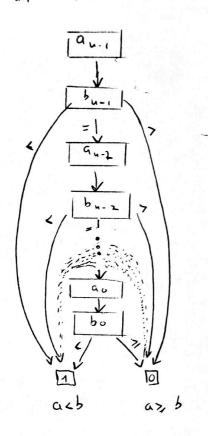
Incorrect mapping

(wrong polarity)

Every path should have an even number of bubbles 4) . Best variable order to minimize BDD myo?

and characteristics control of the control of the





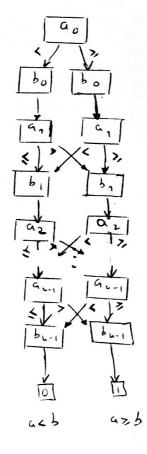
- He size is O(24) where n

1, He smorp size of a, b.

This does not look like a BDD

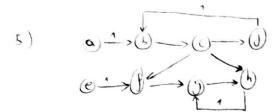
Best variable order to maximize BDD size?

a o < b o < a 1 < b 1 < ... < a ... < b 1 -1

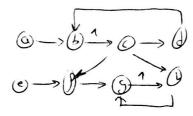


- the size is 2(n-1)+2n=O(4n-2)where n is the binary representation of a, b

Worst case is exponential as 66, 69, 66, ---



- . He wheel yeth: h > c > g > h
- · I min fla returning?



- the wheal path gla returning is $c \rightarrow d \rightarrow b$ with a period of 3.

- = to the mon. number of regritor R min activable after retiring?

 Each feedback loop has to be broken by at least one regular
 and there are 2 loops in the continuational circuit.

 the R min = 2 and it is achieved with the perious retired requestral circuit.
- . He previous retimed crusit actueres both Pmin and Rmin.