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0	0	1	
0	)	0	
1	Ø	0	
, i	1	ŀ	

$$\frac{y}{x_1} = \frac{x_1 \oplus x_2}{x_2}$$

Large function (barres no orvaniables).

Three variable

$$\frac{y = f(x_1, x_2, x_3)}{x_2 \times 3}$$

0	D	0	
	D		
0			
			1147
		2 44 4	
		Donah	

- Ter variable - yzf(x1,x2,---x10)

Table size - 11 colsum)

- n-variable

- 2° mas rows.

- What is the total number of possible burchon with

How to spenby a complex arign! Example - Intel 2-5 - 5's processor barrily has around 1100 - 2000 piles shiped / metal-Use of programmy language -Hardware description "Language" - (HDL) Design speribication Level of abstraction (Identitying the - Architectural level of abstraction) - Behavior level - Structural level - Deriga speribication vary lunquege Ar chritecture level - 13 hue spec - Systam C - System Verilog - (Use of python durquage) R IL laval Behaviorbard Structura RTT Register Tramber - VHDL - Verilog - HOL ( we will become in

bade-2 Modern Digital System Derign Flow -Example 1) Derign of an auto pilol-miero controller Altitude 6 Requirements - Temp - primme - light - weather present 1) Derign Speribication ( perigo specibilation) 3 Derign bormulation 2) Altitude - 30,000 bt-ALU Temp - 50°cto -10°C 16 fil prenure - toto - 10 C Size prenure - toto Amilli Light -rem weather- Rawy, Man Derign Entry

VHOL, venlog, HM Boul 16674

ALU 16674

Airegram of the transfer of the transfe (Design von bication) (6) Logic Synktress (4) VHOL, verilog, HM module adders (inpul-Post synthoen Simulation (Dingo varibication in pul control = 2/15mohleput
always @ (poseadge chous) it worker = 200 0000 (8) Mapping, placement-C16 = 616+616 end module. FPGA ( -00 (9) ASIC

(5) Simulation to variby wheather who singeray Test benches are used to supply inpul- and charge mi design desired mispale Todec Educaniz: ... Unis gives nise to gate level derign (colled gatelevel gate rellist)