ECS 154A: Computer Architecture
LaTeX Examples

Davis Computer Science Club

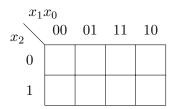## 1 Karnaugh Maps

1.1 Two-Variable Karnaugh Map

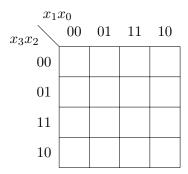Use environment — Karnaughquatre.

1.2 Three-Variable Karnaugh Map

Use environment — Karnaughvuit.

1.3 Four-Variable Karnaugh Map

Use environment — Karnaugh.

1.4 Defining Values in Karnaugh Map

1.4.1 Contingut

Use command — \contingut{} — to fill in values manually.

x_2 \ x_1x_0	00	01	11	10
0	0	1	3	2
1	d	5	7	X

1.4.2 MinTerms

Use command — \minterms{} — to specify the 1's.

x_2 \ x_1x_0	00	01	11	10
0		1		
1			1	

1.4.3 MaxTerms

Use command — \maxterms{} — to specify the 0's.

x_2 \ x_1x_0	00	01	11	10
0			0	
1	0	0		0

1.4.4 Indeterminat

Use command — \indeterminats{} — to specify the X's.

x_2 \ x_1x_0	00	01	11	10
0	X			X
1				

2

1.5 Sources

The Karnaugh Map environments and commands were not produced by the Davis Computer Science Club. Environments and commands were taken from Ignasi's response to a Tex Stack Exchange question:

`http://tex.stackexchange.com/questions/140567/drawing-karnaughs-maps-in-latex`