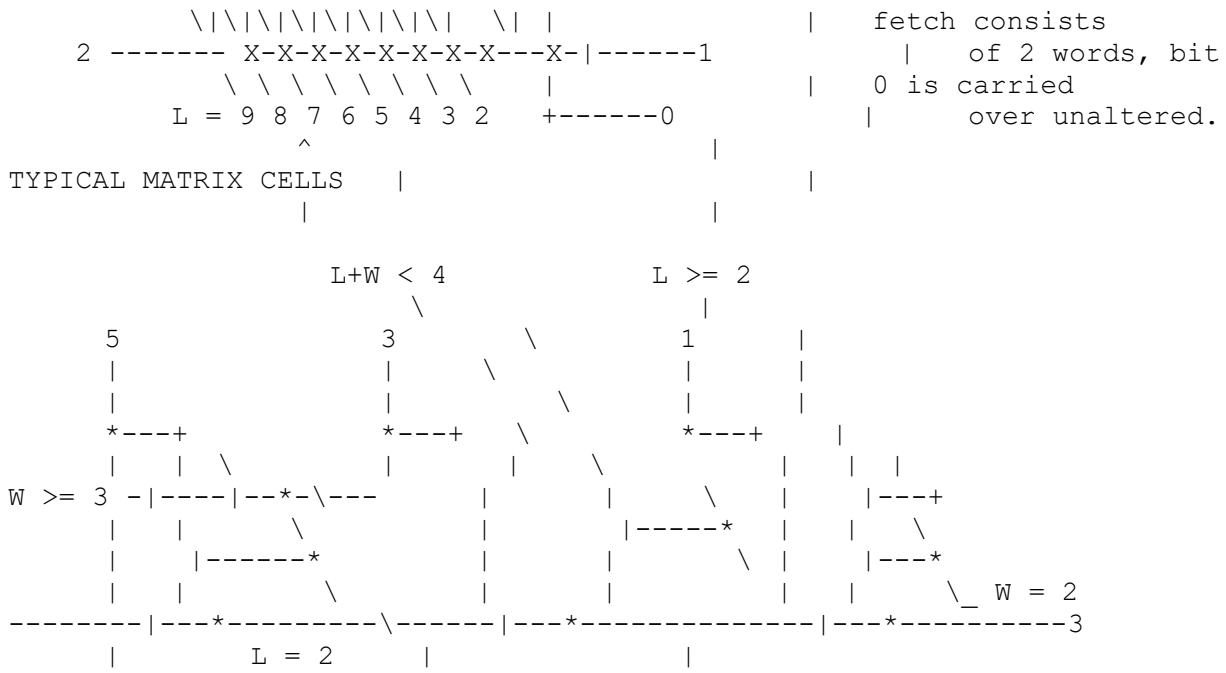
MAP.LST

MAPPING FUNCTION



161 TRANSISTORS THIS PAGE

MAP[m,n]		L =										W =				L >=								W >=			
4,2	1,0	L	W	2	3	4	5	6	7	8	9	2	3	4	5	2	3	4	5	6	7	8	9	2	3	4	5
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	1	9	4	0	0	0	0	0	0	0	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	0
0	2	9	3	0	0	0	0	0	0	0	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0
0	3	9	2	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0
1	0	8	5	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1
1	1	8	4	0	0	0	0	0	0	1	0	0	0	1	0	1	1	1	1	1	1	1	0	1	1	1	0
1	2	8	3	0	0	0	0	0	0	1	0	0	1	0	0	1	1	1	1	1	1	1	0	1	1	0	0
1	3	8	2	0	0	0	0	0	0	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1	0	0	0
2	0	7	5	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	1	1	1
2	1	7	4	0	0	0	0	0	1	0	0	0	0	1	0	1	1	1	1	1	1	0	0	1	1	1	0
2	2	7	3	0	0	0	0	0	1	0	0	0	1	0	0	1	1	1	1	1	1	0	0	1	1	0	0
2	3	7	2	0	0	0	0	0	1	0	0	1	0	0	0	1	1	1	1	1	1	0	0	1	0	0	0
3	0	6	5	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	1	1	1	1
3	1	6	4	0	0	0	0	1	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	1	0
3	2	6	3	0	0	0	0	1	0	0	0	0	1	0	0	1	1	1	1	1	0	0	0	1	1	0	0
3	3	6	2	0	0	0	0	1	0	0	0	1	0	0	0	1	1	1	1	1	0	0	0	1	0	0	0
4	0	5	5	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	1	1
4	1	5	4	0	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	0	0	0	0	1	1	1	0
4	2	5	3	0	0	0	1	0	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	1	1	0	0
4	3	5	2	0	0	0	1	0	0	0	0	1	0	0	0	1	1	1	1	0	0	0	0	1	0	0	0
5	0	4	5	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1
5	1	4	4	0	0	1	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	1	1	1	0
5	2	4	3	0	0	1	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	1	1	0	0
5	3	4	2	0	0	1	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0
6	0	3	5	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	1
6	1	3	4	0	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	1	1	1	0
6	2	3	3	0	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	1	1	0	0
6	3	3	2	0	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0
7	0	2	5	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1
7	1	2	4	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	1	1	0
7	2	2	3	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0
7	3	2	2	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0

MAP[m,n]					L+W <									
4,2	1,0	L	W	L+W	4	5	6	7	8	9	A	B	C	D
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
0	1	9	4	D	0	0	0	0	0	0	0	0	0	0
0	2	9	3	C	0	0	0	0	0	0	0	0	0	1
0	3	9	2	B	0	0	0	0	0	0	0	0	1	1
1	0	8	5	D	0	0	0	0	0	0	0	0	0	0
1	1	8	4	C	0	0	0	0	0	0	0	0	0	1
1	2	8	3	B	0	0	0	0	0	0	0	0	1	1
1	3	8	2	A	0	0	0	0	0	0	0	1	1	1
2	0	7	5	C	0	0	0	0	0	0	0	0	0	1
2	1	7	4	B	0	0	0	0	0	0	0	0	1	1
2	2	7	3	A	0	0	0	0	0	0	0	1	1	1
2	3	7	2	9	0	0	0	0	0	0	1	1	1	1
3	0	6	5	B	0	0	0	0	0	0	0	0	1	1
3	1	6	4	A	0	0	0	0	0	0	0	1	1	1
3	2	6	3	9	0	0	0	0	0	0	1	1	1	1
3	3	6	2	8	0	0	0	0	0	1	1	1	1	1
4	0	5	5	A	0	0	0	0	0	0	0	1	1	1
4	1	5	4	9	0	0	0	0	0	0	1	1	1	1
4	2	5	3	8	0	0	0	0	0	1	1	1	1	1
4	3	5	2	7	0	0	0	0	1	1	1	1	1	1
5	0	4	5	9	0	0	0	0	0	0	1	1	1	1
5	1	4	4	8	0	0	0	0	0	1	1	1	1	1
5	2	4	3	7	0	0	0	0	1	1	1	1	1	1
5	3	4	2	6	0	0	0	1	1	1	1	1	1	1
6	0	3	5	8	0	0	0	0	0	1	1	1	1	1
6	1	3	4	7	0	0	0	0	1	1	1	1	1	1
6	2	3	3	6	0	0	0	1	1	1	1	1	1	1
6	3	3	2	5	0	0	1	1	1	1	1	1	1	1
7	0	2	5	7	0	0	0	0	1	1	1	1	1	1
7	1	2	4	6	0	0	0	1	1	1	1	1	1	1
7	2	2	3	5	0	0	1	1	1	1	1	1	1	1
7	3	2	2	4	0	1	1	1	1	1	1	1	1	1

```
 MAP   MAP              LEn
4 3 2  1 0  OFF  2 3 4 5 6 7 8 9  /OFF = MAP[4]+MAP[3]+MAP[2]+
- - -  - -  ---  - - - - - - - -  MAP[1]+MAP[0]
0 0 0  0 0   1   0 0 0 0 0 0 0 0
0 0 0  X 1   0   0 0 0 0 0 0 0 1
0 0 0  1 X   0   0 0 0 0 0 0 0 1  /LE9 = MAP[4]+MAP[3]+MAP[2]+OFF
0 0 1  X X   0   0 0 0 0 0 0 1 0  /LE8 = MAP[4]+MAP[3]+/MAP[2]
0 1 0  X X   0   0 0 0 0 0 1 0 0  /LE7 = MAP[4]+/MAP[3]+MAP[2]
0 1 1  X X   0   0 0 0 0 1 0 0 0  /LE6 = MAP[4]+/MAP[3]+/MAP[2]
1 0 0  X X   0   0 0 0 1 0 0 0 0  /LE5 = /MAP[4]+MAP[3]+MAP[2]
1 0 1  X X   0   0 0 1 0 0 0 0 0  /LE4 = /MAP[4]+MAP[3]+/MAP[2]
1 1 0  X X   0   0 1 0 0 0 0 0 0  /LE3 = /MAP[4]+/MAP[3]+MAP[2]
1 1 1  X X   0   1 0 0 0 0 0 0 0  /LE2 = /MAP[4]+/MAP[3]+/MAP[2]

 MAP              LGEn
4 3 2  OFF  2 3 4 5 6 7 8 9
- - -  ---  - - - - - - - -
0 0 0   1   0 0 0 0 0 0 0 0
0 0 0   0   1 1 1 1 1 1 1 1  /LGE9 = /LE9
0 0 1   0   1 1 1 1 1 1 1 0  /LGE8 = MAP[4]+MAP[3]+OFF
0 1 0   0   1 1 1 1 1 1 0 0  /LGE7 = MAP[4]+MAP[3]*MAP[2]+OFF
0 1 1   0   1 1 1 1 1 0 0 0  /LGE6 = MAP[4]+OFF
1 0 0   0   1 1 1 1 0 0 0 0  /LGE5 = MAP[4]*(MAP[3]+MAP[2])+OFF
1 0 1   0   1 1 1 0 0 0 0 0  /LGE4 = MAP[4]*MAP[3]+OFF
1 1 0   0   1 1 0 0 0 0 0 0  /LGE3 = LE2+OFF
1 1 1   0   1 0 0 0 0 0 0 0  /LGE2 = OFF

MAP      W =
1 0  OFF  2 3 4 5
- -  ---  - - - -
0 0   1   0 0 0 0
0 0   0   0 0 0 1      /WE5 = MAP[1]+MAP[0]+OFF
0 1   0   0 0 1 0      /WE4 = MAP[1]+/MAP[0]
1 0   0   0 1 0 0      /WE3 = /MAP[1]+MAP[0]
1 1   0   1 0 0 0      /WE2 = /MAP[1]+/MAP[0]
```

```
MAP      W >=
1 0  OFF  2 3 4 5
- -  ---  - - - -
0 0   1   0 0 0 0
0 0   0   1 1 1 1      /WGE5 = /WE5
0 1   0   1 1 1 0      /WGE4 = MAP[1]+OFF
1 0   0   1 1 0 0      /WGE3 = WE2+OFF
1 1   0   1 0 0 0      /WGE2 = /OFF


      /LPWLD = WE5*LE8+WE4*LE9
      /LPWLC = WE5*LGE7+WE4*LGE8+WE4*LE9
      /LPWLB = WE5*LGE6+WE4*LGE7+WE3*LGE8+WE2*LE9
      /LPWLA = WE5*LGE5+WE4*LGE6+WE3*LGE7+WE2*LGE8
      /LPWL9 = WE5*LGE4+WE4*LGE5+WE3*LGE6+WE2*LGE7
      /LPWL8 = WE5*LGE3+WE4*LGE4+WE3*LGE5+WE2*LGE6
      /LPWL7 = WE5*LGE2+WE4*LGE3+WE3*LGE4+WE2*LGE5
      /LPWL6 = WE4*LGE2+WE3*LGE3+WE2*LGE4
      /LPWL5 = WE3*LGE2+WE2*LGE3
      /LPWL4 = /OFF
                              121 TRANSISTORS THIS PAGE
```