Battenburg Sudoku

Place a digit from 1 to 9 into each of the empty squares so that each digit appears exactly once in each of the rows, columns and the nine outlined 3x3 regions.

Everywhere 2 odd and 2 even digits form a 2x2 checkerboard pattern, a Battenburg marking is given. A checkerboard pattern is a 2x2 area of cells where the top-left and bottom-right cells are of one type and the top-right and bottom-left cells are of another type. All possible dots are marked.

4	3	1	8	7	5	9	6	2
9	6	2	1	3	4	5	7	8
5	7	8	9	6	2	3	4	1
8	1	9	4	2	3	6	5	7
6	4	7	5	1	8	2	3	9
2	5	3	7	9	6	1	8	4
7	2	5	6	8	9	4	1	3
3	8	6	2	4	1	7	9	5
1	9	4	3	5	7	8	2	6

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