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.

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

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