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.

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

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