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

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