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

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