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

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