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

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