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

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