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

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