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

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