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.

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

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