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

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