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

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