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

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