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.

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

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