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.

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

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