

Heatmap showing the distribution of the number of non-zero elements in the product of two sparse matrices. The x-axis represents the number of non-zero elements (2 to 40), and the y-axis represents the number of matrix pairs (2 to 40). The color scale ranges from dark red (low frequency) to yellow (high frequency). The highest frequency is observed for products with 34 non-zero elements, particularly for matrix pairs with 32 or 34 non-zero elements.

