

The graph plots performance (likely in seconds or similar unit) on the y-axis against matrix size on the x-axis. The x-axis ranges from 0 to 5000. The y-axis is unlabeled but has a logarithmic scale with major ticks at 1, 10, 100, 1000, and 10000. Two data series are shown: 'Reference LIBXSMM' (blue line with markers) and 'Custom LIBXSMM' (orange line with markers). The 'Reference LIBXSMM' series shows a relatively stable performance, starting around 1.5 at size 0 and increasing slightly to about 10 at size 5000. The 'Custom LIBXSMM' series shows a much higher performance for small sizes, peaking at approximately 10000 at size 1000, and then dropping to a level similar to the reference for larger sizes. The legend indicates that the markers represent different sparsity patterns: 'sparse' (circle), 'wide-sparse' (square), and 'dense' (triangle). The 'Reference LIBXSMM' series uses the 'dense' marker (triangle), while the 'Custom LIBXSMM' series uses the 'sparse' marker (circle).

Size	Reference LIBXSMM (dense)	Custom LIBXSMM (sparse)
0	1.5	1.5
100	2.0	1000
200	2.5	500
300	3.0	1000
400	3.5	10000
500	4.0	1000
600	4.5	10000
700	5.0	1000
800	5.5	10000
900	6.0	1000
1000	6.5	1000
1200	7.0	1000
1400	7.5	1000
1600	8.0	1000
1800	8.5	1000
2000	9.0	1000
2500	9.5	1000
2600	10.0	10000
2700	10.5	1000
2800	11.0	1000
3000	11.5	1000
4000	12.0	1000
4800	12.5	1000

