N	**A**	**First columns of matrices $\mathbf{C}_{\boldsymbol{\alpha\beta}}$**	**L**
100	0.0763	0.0183	0.00610
400	1.22	0.0744	0.0248
$2,500$	48	0.458	0.1528
$10,000$	763	1.831	0.6104
$40,000$	12,207	7.32	2.4416
$250,000$	476,837	45.768	15.3
$500,000$	1,907,349	91.56	30.518
$1,000,000$	7,629,395	183.096	61.035

This table shows the computer memory usage (in Megabytes) for storing the whole $N \times N$ matrix $\mathbf{A}$ (equation 13), the first columns of the BCCB matrices $\mathbf{C}_{\boldsymbol{\alpha\beta}}$ (equation A-6) (both need 8 bytes per element) and the matrix $\mathbf{L}$ (equation A-18) (16 bytes per element).