

N	Matrix Dimensions	Initial Parenthesization (IP)	Optimal Parenthesization (OP)	Time IP	Time OP	Speedup
4	800 1100 900 1200 100	$((A_1 \times A_2) \times A_3) \times A_4$	$(A_1 \times (A_2 \times (A_3 \times A_4)))$	1.9608 s	0.309617 s	6.3329854 X
5	1000 2000 900 1500 600 800	$((((A_1 \times A_2) \times A_3) \times A_4) \times A_5)$	$((A_1 \times (A_2 \times (A_3 \times A_4))) \times A_5)$	15.716273 s	4.766776 s	3.2970445X
6	1500 400 2000 2200 600 1400 1000	$(((((A_1 \times A_2) \times A_3) \times A_4) \times A_5) \times A_6)$	$(A_1 \times (((A_2 \times A_3) \times A_4) \times A_5) \times A_6))$	54.91579 s	15.109158 s	3.634603 X