

N	Matrix Dimensions	Initial Parenthesization (IP)	Optimal Parenthesization (OP)	Time IP	Time OP	Speedup
4	800 1100 900 1200 100	$((A_1 \times A_2) \times A_3) \times A_4$	$(A_1 \times (A_2 \times (A_3 \times A_4)))$	1.8831 s	0.303579 s	6.202998 X
5	1000 2000 900 1500 600 800	$((((A_1 \times A_2) \times A_3) \times A_4) \times A_5)$	$((A_1 \times (A_2 \times (A_3 \times A_4))) \times A_5)$	11.37537 s	4.592197 s	2.4771085X
6	1500 400 2000 2200 600 1400 1000	$(((((A_1 \times A_2) \times A_3) \times A_4) \times A_5) \times A_6)$	$(A_1 \times (((A_2 \times A_3) \times A_4) \times A_5) \times A_6))$	39.41786 s	10.883004 s	3.6219647 X