

**Pre-optimization  
(milli second)**

0.35  
0.3  
0.25  
0.2  
0.15  
0.1  
0.05  
0

Pre-  
optimization

70  
60  
50  
40  
30  
20  
10  
0

1

2

3

4

Pre-optimization

0.194

0.102

0.294

0.168

Optimization

0.587

0.554

50.446

58.961

**Replications**