

CPU  
time  
(sec)

1E6  
1E5  
10000  
1000  
100

20

100

1000

average query sequence length (nucleotides,  $N$ )

non-banded  
( $y=0.10N^{2.36}$ )

QDB,  $\beta=1E-7$   
( $y=5.89N^{1.32}$ )

