

Actual Time  
Complexity  $n$

300 MHz  
10,000      100,000

Brute Force  
Alg

$\sim 34$ secs	$\sim 77$ mins
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Brute Force alg  
where only  
compute distance  
when  $\Delta x < d + \Delta y < d$

$\sim 13$ secs	$\sim 36.5$ mins
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divide +  
conquer

$\sim .4$ secs	$\sim 17$ secs
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	300 MHz		850 MHz	
	10,000	100,000	10,000	100,000
Brute Force Alg	~34 secs	~77 mins	~10 secs	~33 mins
Brute Force alg where only compute distance when $\Delta x < d + \Delta y < d$	~13 secs	~36.5 mins	~4 secs	~20 mins
divide + conquer	~.4 secs	~17 secs	~.2 secs	~2.6 secs

on 850 MHz machine, 33.7 seconds for  $n = 1,000,000$