

Prime_Number_Solver_Vector_Version_5 (Calls: 1, Time: 0.256 s)

Generated 17-Jul-2023 20:30:06 using performance time.







Script in file [G:\shortcut-targets-by-id\1FDlvj8mfMGVPmzoguheuOUy-VJPYsRSg\Portfolio\Personal\MATLAB Fun\Prime Number Solver\Prime_Number_Solver_Vector_Version_5.m](#)

[Copy to new window for comparing multiple runs](#)




Parents (calling functions)

No parent

Lines that take the most time

Line Number	Code	Calls	Total Time (s)	% Time	Time Plot
19	<code>isPrime(remove) = 0;</code>	1731	0.087	34.0%	
3	<code>clf</code>	1	0.046	18.0%	
4	<code>close all</code>	1	0.044	17.3%	
17	<code>remove = i:i:max;</code>	1731	0.033	12.9%	
18	<code>remove(1) = [];</code>	1731	0.028	11.1%	
All other lines			0.017	6.7%	
Totals			0.256	100%	

Children (called functions)

Function Name	Function Type	Calls	Total Time (s)	% Time	Time Plot
clf	Function	1	0.046	17.9%	
close	Function	1	0.044	17.3%	
Self time (built-ins, overhead, etc.)			0.166	64.9%	
Totals			0.256	100%	

Code Analyzer results

Coverage results

[Show coverage for parent folder](#)

Total lines in function	24
Non-code lines (comments, blank lines)	4
Code lines (lines that can run)	20
Code lines that did run	20
Code lines that did not run	0
Coverage (did run/can run)	100.00 %

Function listing

Time	Calls	Line	
< 0.001	1	<u>1</u>	clear
< 0.001	1	<u>2</u>	clc
0.046	1	<u>3</u>	clf
0.044	1	<u>4</u>	close all
< 0.001	1	<u>5</u>	format long
		6	
		7	%3000000 will take around 0.138470 sec and have 216816 primes
< 0.001	1	<u>8</u>	tic
< 0.001	1	<u>9</u>	max = 3000000;
< 0.001	1	<u>10</u>	stoppingPoint = floor(sqrt(max));
		11	
0.006	1	<u>12</u>	numbers = 1:1:max;
< 0.001	1	<u>13</u>	isPrime = true(1, max);
< 0.001	1	<u>14</u>	isPrime(1) = 0;
		15	
< 0.001	1	<u>16</u>	for i = 2:stoppingPoint
0.033	1731	<u>17</u>	remove = i:i:max;
0.028	1731	<u>18</u>	remove(1) = [];
0.087	1731	<u>19</u>	isPrime(remove) = 0;
< 0.001	1731	<u>20</u>	end
< 0.001	1	<u>21</u>	toc
0.008	1	<u>22</u>	numbers(not(isPrime)) = [];
< 0.001	1	<u>23</u>	disp(length(numbers))
< 0.001	1	<u>24</u>	disp("Done")
