Links are disabled because this is a static copy of a profile report

analytical (Calls: 1, Time: 0.036 s)
Generated 05-Aug-2024 09:52:33 using performance time.
function in file D:\Aalto\2324\BScThesis\FullRepo\parallelsimulations_finitebath\src\analytical.m
Copy to new window for comparing multiple runs

Lines where the most time was spent

Line Number	Code	Calls	Total Time	% Time	Time Plot
4	`omega = linspace(0,2*w,1000000...`	1	0.030 s	85.1%	██████████
10	`nl = 2*gavg./((omega-Omega).^2...`	1	0.005 s	13.8%	██
5	`gavg = (gamma^2)/(3*N);`	1	0.000 s	0.4%	
12	`end`	1	0.000 s	0.3%	
9	`rate = pi*nu0*gavg;`	1	0.000 s	0.1%	
All other lines			0.000 s	0.3%	
Totals			0.036 s	100%	

Children (called functions)

Function Name	Function Type	Calls	Total Time	% Time	Time Plot
linspace	function	1	0.010 s	28.6%	████
Self time (built-ins, overhead, etc.)			0.026 s	71.4%	████████
Totals			0.036 s	100%	

Function listing

```
  time     Calls    line
                      2 function [nl, omega] = analytical (N, w, gamma)
                      3
  0.030        1      4 omega = linspace(0,2*w,1000000);
< 0.001        1      5 gavg = (gamma^2)/(3*N);
< 0.001        1      6 Omega = w;
< 0.001        1      7 nu0 = N/(2*Omega);
                      8 %g2 = (gamma^2)/(3*N);
< 0.001        1      9 rate = pi*nu0*gavg;
  0.005        1     10 nl = 2*gavg./((omega-Omega).^2+(2*rate)^2);
                     11
< 0.001        1     12 end
```