Time it took to complete program

10746.365990 seconds = 2 hours   59 minutes 6.365990000000238 seconds

Profile Summary

Generated 02-Jun-2018 00:07:15 using performance time.

Function Name	Calls	Total Time	Self Time*	Total Time Plot (dark band = self time)
CPU_Sort_Data	1	10746.366 s	49.142 s	
getframe	201	10163.727 s	3459.812 s	
Scatter.doUpdate	201	6092.766 s	6064.237 s	
graphics/private/alternateGetframe	201	605.226 s	0.025 s	
getframeWithDecorations	201	605.196 s	605.161 s	
scatter3	201	527.980 s	0.259 s	
newplot	201	526.829 s	0.048 s	
newplot>ObserveAxesNextPlot	201	526.728 s	0.041 s	
cla	201	526.686 s	0.020 s	
graphics/private/clo	201	526.596 s	526.596 s	
Scatter.Scatter>Scatter.set.MarkerHandle	201	27.608 s	27.608 s	
Scatter.getXYZDataExtents	201	5.880 s	0.814 s	
...VideoWriter>VideoWriter.writeVideo	201	5.209 s	0.448 s	
arraytolimits	201	4.176 s	4.176 s	
IProfile>IProfile.writeVideoFrame	201	4.101 s	0.005 s	
...tionJpegAviFilePlugin.writeVideoFrame	201	4.096 s	0.026 s	
...ugin>AviFilePlugin.writeVideoFrame	201	4.070 s	0.014 s	
OutputStream>OutputStream.write	201	4.038 s	0.022 s	

CPU_Sort_Data (Calls: 1, Time: 10746.366 s)

Generated 02-Jun-2018 00:12:44 using performance time.

script in file /home/eemaj/jborja/EE147_PROJECT/CPU_Sort_Data.m
[Copy to new window for comparing multiple runs](#)

Refresh

☑ Show parent functions   ☑ Show busy lines   ☑ Show child functions
☑ Show Code Analyzer results ☑ Show file coverage ☑ Show function listing

---

Parents (calling functions)
No parent

Lines where the most time was spent

Line Number	Code	Calls	Total Time	% Time	Time Plot
28	`currentFrame = getframe(h);`	201	10163.740 s	94.6%	
23	`scatter3(coordinate(:,1,i),coo...`	201	528.165 s	4.9%	
9	`load('data_new.mat')`	1	44.876 s	0.4%	
30	`writeVideo(obj,currentFrame);`	201	5.213 s	0.0%	
19	`if color(j,1) < .45      %4...`	20906814	1.092 s	0.0%	
All other lines			3.281 s	0.0%	
Totals			10746.366 s	100%	

Children (called functions)

Function Name	Function Type	Calls	Total Time	% Time	Time Plot
getframe	function	201	10163.727 s	94.6%	
scatter3	function	201	527.980 s	4.9%	
...VideoWriter>VideoWriter.writeVideo	class method	201	5.209 s	0.0%	
...ideoWriter>VideoWriter.VideoWriter	class method	1	0.120 s	0.0%	
...iter.VideoWriter>VideoWriter.close	class method	1	0.087 s	0.0%	
view	function	201	0.066 s	0.0%	
daspect	function	201	0.030 s	0.0%	
VideoWriter.VideoWriter>VideoWriter.open	class method	1	0.006 s	0.0%	
Self time (built-ins, overhead, etc.)			49.142 s	0.5%	
Totals			10746.366 s	100%	

Code Analyzer results
No Code Analyzer messages.

Coverage results

Total lines in function	39
Non-code lines (comments, blank lines)	14
Code lines (lines that can run)	25
Code lines that did run	25
Code lines that did not run	0
Coverage (did run/can run)	100.00 %

Function listing

Color highlight code according to time ▾

time	Calls	line	
< 0.01	1	3	tic
		4	
		5	%% change directory
< 0.01	1	6	cd('/home/eemaj/jborja/EE147_PROJECT')
		7	
		8	%% load data
44.88	1	9	load('data_new.mat')
		10	
0.05	1	11	h = figure;
		12	%Create Object to create video
0.12	1	13	obj = VideoWriter('CPU_3D_damage.avi');
< 0.01	1	14	open(obj);
		15	
< 0.01	1	16	for i = 300:500
0.07	201	17	color = damage(:,i); %damage is the percentenge of the number of bonds broken
< 0.01	201	18	for j = 1:atoms
1.09	20906814	19	if color(j,1) < .45 %45 percent is standard accepted value of broken glass
0.89	18026282	20	color(j) = .000001; %close to zero
0.83	18026282	21	end
1.05	20906814	22	end
528.16	201	23	scatter3(coordinate(:,1,i),coordinate(:,2,i),coordinate(:,3,i),color)
0.03	201	24	daspect([1 1 1])
0.07	201	25	view([70 50])
< 0.01	201	26	pos_h = [0 0 1362 687]; % Adjusted to indidual user's PC
0.02	201	27	set(h,'Position',pos_h)
10163.74	201	28	currentFrame = getframe(h);
		29	
5.21	201	30	writeVideo(obj,currentFrame);
		31	
		32	%Display percent complete
< 0.01	201	33	num = (i-300)/200 * 100;
0.05	201	34	fprintf('%.2f%% Loaded\n',num)
		35	
< 0.01	201	36	end
		37	
0.09	1	38	close(obj);
		39	
		40	%End the stopwatch
< 0.01	1	41	toc

getframe (Calls: 201, Time: 10163.727 s)

Refresh

☑ Show parent functions ☑ Show busy lines ☑ Show child functions
☑ Show Code Analyzer results ☑ Show file coverage ☑ Show function listing

Parents (calling functions)

Function Name	Function Type	Calls
CPU_Sort_Data	script	201

Lines where the most time was spent

Line Number	Code	Calls	Total Time	% Time	Time Plot
53	drawnow;	201	9512.231 s	93.6%	▬▬▬▬▬
111	x = alternateGetframe(parentFi...	201	605.228 s	6.0%	▪
54	drawnow;	201	46.230 s	0.5%	
56	parentFig = ancestor(h, 'figur...	201	0.018 s	0.0%	
42	if isa(h,'matlab.ui.control.UI...	201	0.005 s	0.0%	
All other lines			0.015 s	0.0%	
Totals			10163.727 s	100%	

Children (called functions)

Function Name	Function Type	Calls	Total Time	% Time	Time Plot
Scatter.doUpdate	function	201	6092.766 s	59.9%	▬▬▬▬
graphics/private/alternateGetframe	function	201	605.226 s	6.0%	▪
Scatter.getXYZDataExtents	function	201	5.880 s	0.1%	
Scatter.getColorAlphaDataExtents	function	201	0.043 s	0.0%	
Self time (built-ins, overhead, etc.)			3459.812 s	34.0%	▬▬▬
Totals			10163.727 s	100%	

Code Analyzer results
No Code Analyzer messages.

Coverage results
Show coverage for parent directory

Total lines in function	116
Non-code lines (comments, blank lines)	66
Code lines (lines that can run)	50
Code lines that did run	15
Code lines that did not run	35
Coverage (did run/can run)	30.00 %

Scatter.doUpdate (Calls: 201, Time: 6092.766 s)

Generated 02-Jun-2018 00:16:11 using performance time.
function in file /usr/local/MATLAB/R2016b/toolbox/matlab/specgraph/+matlab/+graphics/+chart/+primitive/@Scatter/doUpdate.p

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

This is a P-file for which there is no corresponding MATLAB code file

Refresh

☑ Show parent functions   ☑ Show busy lines   ☑ Show child functions
☑ Show Code Analyzer results ☑ Show file coverage ☑ Show function listing

Parents (calling functions)

Function Name	Function Type	Calls
getframe	function	201

Lines where the most time was spent
No MATLAB code to display

Children (called functions)

Function Name	Function Type	Calls	Total Time	% Time	Time Plot
Scatter.Scatter>Scatter.set.MarkerHandle	class method	201	27.608 s	0.5%	
isInvalidInLogScale	function	603	0.609 s	0.0%	
Scatter.cacheLegendIconColors	function	201	0.129 s	0.0%	
...catter>Scatter.get.MarkerFaceColor	class method	402	0.046 s	0.0%	
...catter>Scatter.get.MarkerEdgeColor	class method	402	0.033 s	0.0%	
Scatter.Scatter>Scatter.get.Marker	class method	201	0.016 s	0.0%	
Scatter.Scatter>Scatter.get.SizeData	class method	201	0.015 s	0.0%	
...catter>Scatter.get.MarkerFaceAlpha	class method	201	0.015 s	0.0%	
...catter>Scatter.get.MarkerEdgeAlpha	class method	201	0.013 s	0.0%	
Scatter.Scatter>Scatter.get.LineWidth	class method	201	0.013 s	0.0%	
Scatter.Scatter>Scatter.get.CData	class method	201	0.010 s	0.0%	
Scatter.Scatter>Scatter.get.BrushHandles	class method	529	0.006 s	0.0%	
Scatter.Scatter>Scatter.set.MarkerOrder	class method	201	0.006 s	0.0%	
Scatter.Scatter>Scatter.get.MarkerHandle	class method	312	0.005 s	0.0%	
...catter>Scatter.get.SelectionHandle	class method	201	0.005 s	0.0%	
Self time (built-ins, overhead, etc.)			6064.237 s	99.5%	████████████
Totals			6092.766 s	100%	

Code Analyzer results
No MATLAB code to display

Coverage results
No MATLAB code to display

Function listing
No MATLAB code to display

graphics/private/alternateGetframe (Calls: 201, Time: 605.226 s)

Generated 02-Jun-2018 00:17:50 using performance time.
function in file /usr/local/MATLAB/R2016b/toolbox/matlab/graphics/private/alternateGetframe.p
Copy to new window for comparing multiple runs

This is a P-file for which there is no corresponding MATLAB code file

[Refresh]

☑ Show parent functions   ☑ Show busy lines   ☑ Show child functions
☑ Show Code Analyzer results ☑ Show file coverage ☑ Show function listing

Parents (calling functions)

Function Name	Function Type	Calls
getframe	function	201

Lines where the most time was spent
No MATLAB code to display

Children (called functions)

Function Name	Function Type	Calls	Total Time	% Time	Time Plot
getframeWithDecorations	function	201	605.196 s	100.0%	▬▬▬▬▬▬▬
isFigureShowEnabled	function	201	0.004 s	0.0%	
Self time (built-ins, overhead, etc.)			0.025 s	0.0%	
Totals			605.226 s	100%	

Code Analyzer results
No MATLAB code to display

Coverage results
No MATLAB code to display

Function listing
No MATLAB code to display