Time required to classify 384*512*3 image using Alexnet and VGG Net individually, on a 2GB GPU is specified in Fig 2, Fig 3.

Profile Summary

Generated 04-Oct-2016 08:59:41 using cpu time.

Function Name	Calls	Total Time	Self Time*	Total Time Plot (dark band = self time)
matconv	1	2.023 s	1.582 s	
run	1	0.282 s	0.005 s	
vl_setupnn	1	0.272 s	0.002 s	
addpath	5	0.262 s	0.007 s	
path	5	0.254 s	0.203 s	
vl_simplenn	1	0.069 s	0.009 s	
general\private\parsedirs	10	0.051 s	0.050 s	
graphics\private\clo	2	0.040 s	0.005 s	
vl_nnconv (MEX-file)	8	0.039 s	0.039 s	

Fig2. Execution time for Alexnet for a 384*512*3 image.

Profile Summary

Generated 04-Oct-2016 08:24:33 using cpu time.

Function Name	Calls	Total Time	Self Time*	Total Time Plot (dark band = self time)
matconv	1	1.936 s	1.477 s	
run	1	0.289 s	0.010 s	
vl_setupnn	1	0.279 s	0.000 s	
addpath	5	0.279 s	0.010 s	
path	5	0.269 s	0.209 s	
vl_simplenn	1	0.070 s	0.000 s	
general\private\parsedirs	10	0.060 s	0.060 s	
graphics\private\clo	2	0.060 s	0.000 s	
setdiff	3	0.060 s	0.020 s	
setdiff>setdifflegacy	3	0.040 s	0.010 s	
vl_nnconv (MEX-file)	8	0.040 s	0.040 s	

Fig 3, Execution time for VGG Net for a 384*512*3 image.