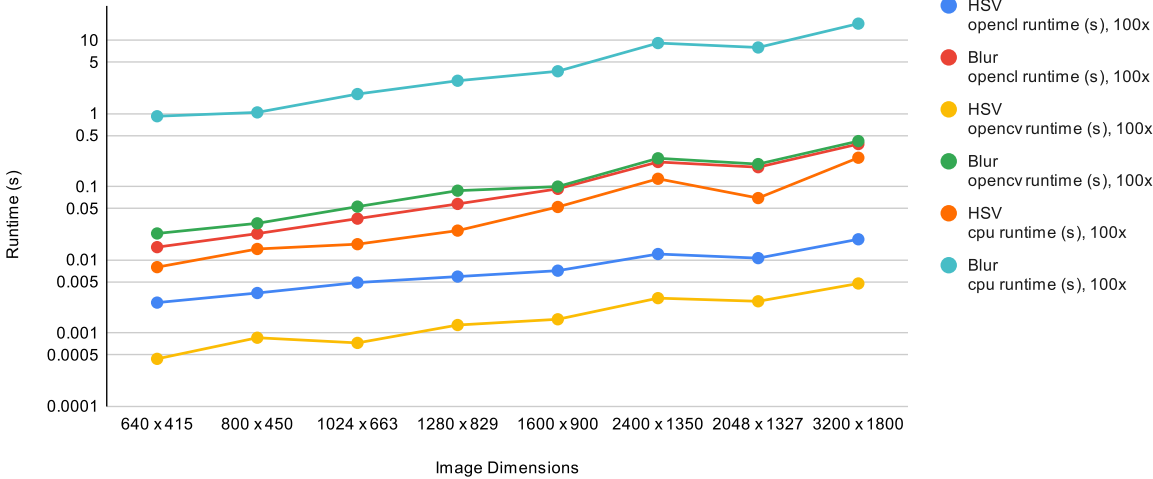


images	dimensions	HSV opengl runtime (s), 100x	Blur opengl runtime (s), 100x	HSV opencv runtime (s), 100x	Blur opencv runtime (s), 100x	HSV cpu runtime (s), 100x	Blur cpu runtime (s), 100x
1.nature_small.jpeg	640 x 415	0.002606	0.014926	0.000444	0.02296	0.007955	0.918431
1.kitten_small.jpg	800 x 450	0.003525	0.022844	0.000863	0.031595	0.014089	1.036215
2.nature_medium.jpeg	1024 x 663	0.004897	0.036602	0.000733	0.053434	0.016385	1.845965
3.nature_large.jpeg	1280 x 829	0.005911	0.058178	0.001287	0.088264	0.025119	2.805918
2.kitten_medium.jpg	1600 x 900	0.007121	0.093467	0.001542	0.10039	0.05283	3.782707
3.kitten_large.jpg	2400 x 1350	0.012021	0.2177	0.002999	0.244621	0.128366	9.183894
4.nature_mega.jpeg	2048 x 1327	0.010563	0.184802	0.002716	0.203753	0.069931	7.994411
4.kitten_huge.jpg	3200 x 1800	0.019119	0.382592	0.004758	0.420148	0.248923	16.931724

Runtime of Image Processing Operations by Image Dimensions (Log Scale)



images	dimensions	{local work size}, {global work size}	HSV1	Blur1	{local work size}, {global work size}	HSV2	Blur2	{local work size}, {global work size}	HSV3	Blur3
1.nature_small.jpeg	640 x 415	{8, 8, 1}, {800, 456, 1}	0.002301	0.016728	{16, 16, 1}, {800, 464, 1}	0.001743	0.017122	{32, 32, 1}, {800, 480, 1}	0.002606	0.014926
1.kitten_small.jpg	800 x 450	{8, 8, 1}, {1600, 904, 1}	0.003403	0.023272	{16, 16, 1}, {1600, 912, 1}	0.002734	0.023194	{32, 32, 1}, {1600, 928, 1}	0.003525	0.022844
2.nature_medium.jpeg	1024 x 663	{8, 8, 1}, {2400, 1352, 1}	0.004794	0.044098	{16, 16, 1}, {2400, 1360, 1}	0.003719	0.045633	{32, 32, 1}, {2400, 1376, 1}	0.004897	0.036602
3.nature_large.jpeg	1280 x 829	{8, 8, 1}, {3200, 1800, 1}	0.006396	0.072884	{16, 16, 1}, {3200, 1808, 1}	0.005211	0.072364	{32, 32, 1}, {3200, 1824, 1}	0.005911	0.058178
2.kitten_medium.jpg	1600 x 900	{8, 8, 1}, {640, 416, 1}	0.007541	0.106229	{16, 16, 1}, {640, 416, 1}	0.006209	0.094982	{32, 32, 1}, {640, 416, 1}	0.007121	0.093467
3.kitten_large.jpg	2400 x 1350	{8, 8, 1}, {1024, 664, 1}	0.014394	0.246598	{16, 16, 1}, {1024, 672, 1}	0.011229	0.220279	{32, 32, 1}, {1024, 672, 1}	0.012021	0.2177
4.nature_mega.jpeg	2048 x 1327	{8, 8, 1}, {1280, 832, 1}	0.012302	0.208231	{16, 16, 1}, {1280, 832, 1}	0.009649	0.184698	{32, 32, 1}, {1280, 832, 1}	0.010563	0.184802
4.kitten_huge.jpg	3200 x 1800	{8, 8, 1}, {2048, 1328, 1}	0.02319	0.443592	{16, 16, 1}, {2048, 1328, 1}	0.018069	0.397584	{32, 32, 1}, {2048, 1344, 1}	0.019119	0.382592

Runtime of Image Processing Operations By Image Dimension (Log Scale)

Image processing operations using different local and global work sizes

