

Tracking slimming paint performance

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Goals

The current goals of measuring Slimming Paint performance are:

1. Verify achievement performance equivalent to the pre-Slimming Paint architecture
2. Measure continuously to avoid regressions in Slimming Paint performance and verify expected improvements

Post-launch, goal (1) is past, but goal (2) remains.

Metrics

We will measure the same information which is already measured for non-Slimming Paint configurations. In particular, we will measure all metrics currently present in the Telemetry and Cluster Telemetry bots.

For Slimming Paint phase 1, by far the most relevant metric is `rasterize_and_record`, which measures directly the paint and rasterization overhead, but skipping other code that should be unchanged in this phase. Therefore we will primarily be monitoring that metric, by adding a `rasterize_and_record_micro_slimming_paint.top25` telemetry measurement. In addition, we will make lots of runs of the `rasterize_and_record` benchmark in Cluster Telemetry. An example is below.

Cluster telemetry results ([cluster telemetry](#))

Data created by clicking show run details and adding `--enable-slimming-paint` to "withpatch".

[3/11/15 cluster telemetry run](#)

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
viewport_picture_size (bytes)	428503101.333	4080273359.330	852.216%	161.985%
pixels_recorded (pixels)	7931296495.670	31732262001.300	300.089%	120.014%
rasterize_time (ms)	24756.381	38477.166	55.423%	43.397%

record_time_painting_disabled (ms)	1900.032	2483.114	30.688%	26.606%
pixels_rasterized (pixels)	9563925115.330	9522727956.670	-0.431%	-0.432%
record_time_sk_null_canvas (ms)	2638.881	2483.434	-5.891%	-6.069%
record_time_caching_disabled (ms)	2963.263	2558.882	-13.646%	-14.646%
record_time (ms)	2967.750	2560.837	-13.711%	-14.720%

3/16/15 - 5/5/15 cluster telemetry run data

This file was getting a bit unwieldy, see the other doc for past data.

5/4/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3985.436	4865.752	22.088%	19.891%
record_time_painting_disabled (ms)	2575.557	3010.465	16.886%	15.571%
pixels_recorded (pixels)	10031386360.300	10032623169.500	0.012%	0.012%
pixels_rasterized (pixels)	12456718161.700	12210732971.700	-1.975%	-1.994%
rasterize_time (ms)	31118.572	30018.123	-3.536%	-3.600%
viewport_picture_size (bytes)	600653642.667	541554333.333	-9.839%	-10.348%
record_time (ms)	3992.218	2470.447	-38.118%	-47.094%

5/5/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3988.193	4897.526	22.801%	20.467%
record_time_painting_disabled (ms)	2575.130	3036.962	17.934%	16.458%
pixels_recorded (pixels)	9999503428.500	9997350862.330	-0.022%	-0.022%
pixels_rasterized (pixels)	12413352847.700	12161271174.300	-2.031%	-2.052%
rasterize_time (ms)	30732.471	29644.795	-3.539%	-3.603%
viewport_picture_size (bytes)	599247189.333	539834581.333	-9.915%	-10.432%
record_time (ms)	3994.481	2481.616	-37.874%	-46.722%

5/8/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	4002.202	4692.597	17.250%	15.881%
record_time_painting_disabled (ms)	2595.928	2993.068	15.299%	14.212%
pixels_recorded (pixels)	10032610592.300	10028555421.700	-0.040%	-0.040%
pixels_rasterized (pixels)	12458824961	12205286657	-2.035%	-2.056%
rasterize_time (ms)	30852.319	29767.164	-3.517%	-3.580%
viewport_picture_size (bytes)	601762442.667	352257570.667	-41.462%	-52.306%
record_time (ms)	4009.340	2338.147	-41.682%	-52.657%

5/9/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	4021.248	4655.271	15.767%	14.615%
record_time_painting_disabled (ms)	2590.978	2968.328	14.564%	13.575%
pixels_recorded (pixels)	10029195715.500	10030255615.800	0.011%	0.011%
pixels_rasterized (pixels)	12448219644.300	12198934263.700	-2.003%	-2.023%
rasterize_time (ms)	31299.130	30130.741	-3.733%	-3.804%
viewport_picture_size (bytes)	601537245.333	359692930.667	-40.204%	-50.320%
record_time (ms)	4028.542	2332.320	-42.105%	-53.333%

5/10/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	4063.354	4609.766	13.447%	12.600%
record_time_painting_disabled (ms)	2652.109	2985.148	12.557%	11.816%
pixels_recorded (pixels)	9970425903.500	9976929691.500	0.065%	0.065%
pixels_rasterized (pixels)	12380010725	12135003616.300	-1.979%	-1.999%
rasterize_time (ms)	31038.827	29939.646	-3.541%	-3.605%

viewport_picture_size (bytes)	605819608	350972976	-42.066%	-53.271%
record_time (ms)	4069.665	2349.597	-42.266%	-53.591%

5/10/15 cluster telemetry run (android)

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	44401.650	58150.809	30.965%	26.814%
record_time_painting_disabled (ms)	28743.567	36246.569	26.103%	23.090%
pixels_recorded (pixels)	11585475779	11573492330.300	-0.103%	-0.103%
pixels_rasterized (pixels)	14923277351.300	14557994458	-2.448%	-2.478%
rasterize_time (ms)	281878.621	273241.261	-3.064%	-3.112%
viewport_picture_size (bytes)	470986152	312895813.333	-33.566%	-40.335%
record_time (ms)	44519.390	28286.448	-36.463%	-44.592%

5/11/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3992.979	4680.425	17.216%	15.852%
record_time_painting_disabled (ms)	2601.687	2957.295	13.668%	12.794%
pixels_recorded (pixels)	9999148764.830	9996339404.330	-0.028%	-0.028%
pixels_rasterized (pixels)	12403322795.700	12157860258.300	-1.979%	-1.999%
rasterize_time (ms)	30810.135	29682.547	-3.660%	-3.728%
viewport_picture_size (bytes)	599313677.333	358631493.333	-40.160%	-50.250%
record_time (ms)	3999.703	2338.230	-41.540%	-52.429%

5/12/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3933.433	4554.154	15.781%	14.627%
record_time_painting_disabled (ms)	2577.266	2925.285	13.503%	12.649%

pixels_recorded (pixels)	9948525072.330	9947316379	-0.012%	-0.012%
pixels_rasterized (pixels)	12339154984.300	12099331045.700	-1.944%	-1.963%
rasterize_time (ms)	30402.837	29326.024	-3.542%	-3.606%
viewport_picture_size (bytes)	595477280	356855597.333	-40.072%	-50.113%
record_time (ms)	3940.794	2325.684	-40.984%	-51.548%

5/13/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3977.873	4558.483	14.596%	13.603%
record_time_painting_disabled (ms)	2584.018	2920.626	13.027%	12.230%
pixels_recorded (pixels)	9944462170.830	9946214962.170	0.018%	0.018%
pixels_rasterized (pixels)	12330142718	12083066536.700	-2.004%	-2.024%
rasterize_time (ms)	30684.854	29635.754	-3.419%	-3.478%
viewport_picture_size (bytes)	601211077.333	349343168	-41.893%	-52.994%
record_time (ms)	3984.678	2302.431	-42.218%	-53.514%

5/14/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3947.442	4644.901	17.669%	16.234%
record_time_painting_disabled (ms)	2577.411	2927.178	13.570%	12.708%
pixels_recorded (pixels)	9879046557.670	9878133502.170	-0.009%	-0.009%
pixels_rasterized (pixels)	12249050503.300	12002529510	-2.013%	-2.033%
rasterize_time (ms)	30557.789	29464.988	-3.576%	-3.641%
viewport_picture_size (bytes)	591686568	354390784	-40.105%	-50.164%
record_time (ms)	3953.421	2288.292	-42.119%	-53.355%

5/15/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3972.715	4650.912	17.071%	15.729%
record_time_painting_disabled (ms)	2616.676	2986.250	14.124%	13.192%
pixels_recorded (pixels)	9912259716.670	9904593123	-0.077%	-0.077%
pixels_rasterized (pixels)	12290421790.300	12044352362.300	-2.002%	-2.022%
rasterize_time (ms)	30675.454	29583.805	-3.559%	-3.623%
viewport_picture_size (bytes)	601385322.667	355720864	-40.850%	-51.335%
record_time (ms)	3978.781	2348.960	-40.963%	-51.514%

5/16/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3545.469	4130.167	16.491%	15.235%
record_time_painting_disabled (ms)	2339.798	2653.887	13.424%	12.579%
pixels_recorded (pixels)	7622913707.330	7617665015.170	-0.069%	-0.069%
pixels_rasterized (pixels)	10189081163	9974384364.330	-2.107%	-2.130%
rasterize_time (ms)	24893.097	24137.175	-3.037%	-3.083%
record_time (ms)	3551.167	2107.295	-40.659%	-51.034%
viewport_picture_size (bytes)	538313893.333	296710378.667	-44.882%	-57.867%

5/17/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3504.732	4145.267	18.276%	16.746%
record_time_painting_disabled (ms)	2303.044	2660.476	15.520%	14.402%
pixels_recorded (pixels)	7634386024.500	7630815938.330	-0.047%	-0.047%
pixels_rasterized (pixels)	10203615809.700	9988575217	-2.107%	-2.130%
rasterize_time (ms)	24822.893	24103.238	-2.899%	-2.942%

record_time(ms)	3510.147	2129.014	-39.347%	-48.984%
viewport_picture_size(bytes)	538779616	303910757.333	-43.593%	-55.743%

5/19/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled(ms)	3647.957	4254.254	16.620%	15.345%
record_time_painting_disabled(ms)	2427.748	2774.428	14.280%	13.328%
pixels_recorded(pixels)	7724137121	7729395336.170	0.068%	0.068%
pixels_rasterized(pixels)	10322978312.300	10110941363	-2.054%	-2.075%
rasterize_time(ms)	25362.254	24627.785	-2.896%	-2.938%
record_time(ms)	3653.470	2187.498	-40.125%	-50.196%
viewport_picture_size(bytes)	544410389.333	300386538.667	-44.824%	-57.771%

5/20/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled(ms)	3633.730	4220.557	16.149%	14.943%
record_time_painting_disabled(ms)	2374.527	2744.203	15.568%	14.444%
pixels_recorded(pixels)	7709017897	7707787428.830	-0.016%	-0.016%
pixels_rasterized(pixels)	10305588142.300	10093497172.300	-2.058%	-2.079%
rasterize_time(ms)	25172.812	24421.873	-2.983%	-3.028%
record_time(ms)	3639.408	2131.299	-41.438%	-52.268%
viewport_picture_size(bytes)	536914428	300705201.333	-43.994%	-56.400%

5/21/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled(ms)	3625.221	4292.654	18.411%	16.859%
record_time_painting_disabled(ms)	2352.425	2757.391	17.215%	15.851%

pixels_recorded (pixels)	7726041976.670	7728397526.330	0.030%	0.030%
pixels_rasterized (pixels)	10328134583.700	10117409037	-2.040%	-2.061%
rasterize_time (ms)	25373.122	24698.078	-2.660%	-2.696%
record_time (ms)	3631.274	2168.381	-40.286%	-50.448%
viewport_picture_size (bytes)	538936678.667	309242752	-42.620%	-54.162%

5/22/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3621.007	4277.112	18.119%	16.614%
record_time_painting_disabled (ms)	2359.166	2752.411	16.669%	15.386%
pixels_recorded (pixels)	7656260380.830	7655206980.670	-0.014%	-0.014%
pixels_rasterized (pixels)	10240955115.700	10026211303	-2.097%	-2.119%
rasterize_time (ms)	24981.442	24260.209	-2.887%	-2.929%
record_time (ms)	3626.554	2151.504	-40.674%	-51.057%
viewport_picture_size (bytes)	535403264	306955772	-42.668%	-54.240%

5/23/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3585.919	4101.985	14.391%	13.425%
record_time_painting_disabled (ms)	2343.558	2666.172	13.766%	12.879%
pixels_recorded (pixels)	7643701779.170	7642740554.170	-0.013%	-0.013%
pixels_rasterized (pixels)	10222580565.700	10014442752.300	-2.036%	-2.057%
rasterize_time (ms)	25013.419	24319.539	-2.774%	-2.813%
record_time (ms)	3592.603	2078.953	-42.132%	-53.377%
viewport_picture_size (bytes)	535167497.333	299171573.333	-44.098%	-56.571%

5/24/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3537.742	4100.072	15.895%	14.725%
record_time_painting_disabled (ms)	2302.599	2647.203	14.966%	13.924%
pixels_recorded (pixels)	7566249833.830	7565804514.670	-0.006%	-0.006%
pixels_rasterized (pixels)	10117813849	9912484692.330	-2.029%	-2.050%
rasterize_time (ms)	24717.345	24008.267	-2.869%	-2.910%
record_time (ms)	3543.330	2079.213	-41.320%	-52.080%
viewport_picture_size (bytes)	531370064	296932298.667	-44.119%	-56.607%

5/25/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3453.363	4031.103	16.730%	15.438%
record_time_painting_disabled (ms)	2250.602	2578.999	14.592%	13.599%
pixels_recorded (pixels)	7490816274	7494326740.500	0.047%	0.047%
pixels_rasterized (pixels)	10016038479.700	9816372043	-1.993%	-2.014%
rasterize_time (ms)	24684.090	24011.883	-2.723%	-2.761%
record_time (ms)	3458.992	2017.719	-41.667%	-52.633%
viewport_picture_size (bytes)	524155498.667	293219649.333	-44.059%	-56.507%

5/26/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3542.307	4079.091	15.154%	14.086%
record_time_painting_disabled (ms)	2325.661	2654.072	14.121%	13.190%
pixels_recorded (pixels)	7554858412	7555646680.830	0.010%	0.010%
pixels_rasterized (pixels)	10103579969.700	9904038048.330	-1.975%	-1.995%
rasterize_time (ms)	24707.918	23958.205	-3.034%	-3.081%

record_time (ms)	3548.292	2054.194	-42.108%	-53.337%
viewport_picture_size (bytes)	529308844	296176792	-44.045%	-56.484%

5/27/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3637.627	4167.680	14.571%	13.582%
record_time_painting_disabled (ms)	2363.036	2691.181	13.887%	12.985%
pixels_recorded (pixels)	7710849671.500	7714268305.670	0.044%	0.044%
pixels_rasterized (pixels)	10313047470.300	10101748393.700	-2.049%	-2.070%
rasterize_time (ms)	25035.913	24359.783	-2.701%	-2.738%
record_time (ms)	3643.509	2086.404	-42.736%	-54.350%
viewport_picture_size (bytes)	538417745.333	301708118.667	-43.964%	-56.351%

5/30/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3623.246	4284.746	18.257%	16.730%
record_time_painting_disabled (ms)	2432.503	2871.728	18.057%	16.561%
pixels_recorded (pixels)	7707631332.670	7713775650.670	0.080%	0.080%
pixels_rasterized (pixels)	10312223671.700	10098815927.700	-2.069%	-2.091%
rasterize_time (ms)	25037.221	24332.517	-2.815%	-2.855%
viewport_picture_size (bytes)	510414172	453343728	-11.181%	-11.843%
record_time (ms)	3629.469	2309.758	-36.361%	-44.441%

5/31/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_painting_disabled (ms)	2428.959	2881.590	18.635%	17.047%
record_time_caching_disabled (ms)	3586.674	4248.294	18.447%	16.889%

pixels_recorded (pixels)	7666467396.170	7663120815.500	-0.044%	-0.044%
pixels_rasterized (pixels)	10249707097	10035678809	-2.088%	-2.110%
rasterize_time (ms)	24812.427	24116.992	-2.803%	-2.843%
viewport_picture_size (bytes)	507372970.667	450961793.333	-11.118%	-11.773%
record_time (ms)	3592.667	2310.186	-35.697%	-43.453%

6/1/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_painting_disabled (ms)	2342.608	2739.088	16.925%	15.604%
record_time_caching_disabled (ms)	3538.881	4113.120	16.227%	15.009%
pixels_recorded (pixels)	7610026799.330	7612441622.670	0.032%	0.032%
pixels_rasterized (pixels)	10182979649	9968683755.670	-2.104%	-2.127%
rasterize_time (ms)	24605.974	23912.073	-2.820%	-2.860%
viewport_picture_size (bytes)	504876606.667	449104986.667	-11.047%	-11.692%
record_time (ms)	3544.249	2201.152	-37.895%	-46.754%

6/2/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_painting_disabled (ms)	2339.561	2722.784	16.380%	15.140%
record_time_caching_disabled (ms)	3573.275	4135.606	15.737%	14.589%
pixels_recorded (pixels)	7568103277	7565047620	-0.040%	-0.040%
pixels_rasterized (pixels)	10118293081	9904368648.330	-2.114%	-2.137%
rasterize_time (ms)	24552.994	23848.460	-2.869%	-2.911%
viewport_picture_size (bytes)	508479052	445359933.333	-12.413%	-13.235%
record_time (ms)	3578.769	2172.827	-39.286%	-48.889%

6/3/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3541.046	4235.575	19.614%	17.862%
record_time_painting_disabled (ms)	2337.165	2737.974	17.149%	15.795%
pixels_recorded (pixels)	7720269676.170	7720976094.330	0.009%	0.009%
pixels_rasterized (pixels)	10321667673	10112117768.300	-2.030%	-2.051%
rasterize_time (ms)	25007.453	24316.976	-2.761%	-2.800%
viewport_picture_size (bytes)	511161140	454319077.333	-11.120%	-11.775%
record_time (ms)	3546.852	2165.851	-38.936%	-48.348%

6/4/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3562.933	4264.075	19.679%	17.916%
record_time_painting_disabled (ms)	2396.313	2812.395	17.363%	15.976%
pixels_recorded (pixels)	7712870428	7711454453.500	-0.018%	-0.018%
pixels_rasterized (pixels)	10320078446.300	10241490039.700	-0.762%	-0.764%
rasterize_time (ms)	25024.797	24471.173	-2.212%	-2.237%
viewport_picture_size (bytes)	510471184	481449316	-5.685%	-5.852%
record_time (ms)	3568.628	2263.183	-36.581%	-44.770%

6/5/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3530.836	4259.934	20.649%	18.717%
record_time_painting_disabled (ms)	2339.441	2773.306	18.546%	16.972%
pixels_recorded (pixels)	7614563617.670	7613088237.670	-0.019%	-0.019%
pixels_rasterized (pixels)	10194896233.700	10117034094.300	-0.764%	-0.767%
rasterize_time (ms)	24834.937	24271.100	-2.270%	-2.296%

viewport_picture_size (bytes)	503609665.333	474968333.333	-5.687%	-5.854%
record_time (ms)	3536.280	2234.390	-36.815%	-45.121%

6/6/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_painting_disabled (ms)	2403.649	2842.916	18.275%	16.745%
record_time_caching_disabled (ms)	3687.289	4333.618	17.529%	16.116%
pixels_recorded (pixels)	7647906079.670	7646356729.170	-0.020%	-0.020%
pixels_rasterized (pixels)	10228106507	10156703902.300	-0.698%	-0.701%
rasterize_time (ms)	24806.874	24254.711	-2.226%	-2.251%
viewport_picture_size (bytes)	505180408	476834134.667	-5.611%	-5.773%
record_time (ms)	3692.963	2253.478	-38.979%	-48.415%

6/7/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3657.584	4349.808	18.926%	17.290%
record_time_painting_disabled (ms)	2393.810	2835.630	18.457%	16.897%
pixels_recorded (pixels)	7714357534.670	7716279977.830	0.025%	0.025%
pixels_rasterized (pixels)	10326551805	10255127719.700	-0.692%	-0.694%
rasterize_time (ms)	25151.499	24601.931	-2.185%	-2.209%
viewport_picture_size (bytes)	511152717.333	482301004	-5.644%	-5.808%
record_time (ms)	3663.426	2255.185	-38.441%	-47.587%

6/8/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_caching_disabled (ms)	3691.141	4339.801	17.573%	16.154%
record_time_painting_disabled (ms)	2437.354	2856.688	17.204%	15.842%

pixels_recorded (pixels)	7727077052.170	7724900724	-0.028%	-0.028%
pixels_rasterized (pixels)	10331054664.300	10265803336.300	-0.632%	-0.634%
rasterize_time (ms)	25084.707	24526.603	-2.225%	-2.250%
viewport_picture_size (bytes)	518040570.667	482289886.667	-6.901%	-7.148%
record_time (ms)	3696.883	2245.116	-39.270%	-48.865%

6/10/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2408.845	0%	200%
record_time_caching_disabled (ms)	3495.852	4059.221	16.115%	14.914%
record_time_painting_disabled (ms)	2350.530	2709.743	15.282%	14.197%
pixels_recorded (pixels)	7672962077	7677173845	0.055%	0.055%
pixels_rasterized (pixels)	10274227071	10074236045	-1.947%	-1.966%
rasterize_time (ms)	24595.385	23943.099	-2.652%	-2.688%
viewport_picture_size (bytes)	489852552	435465272	-11.103%	-11.755%
record_time (ms)	3498.908	2135.552	-38.965%	-48.393%
record_time_sk_null_canvas (ms)	3188.901	0	-100%	-200%

6/11/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2462.647	0%	200%
record_time_painting_disabled (ms)	2399.222	2781.838	15.947%	14.770%
record_time_caching_disabled (ms)	3558.538	4124.323	15.899%	14.729%
pixels_recorded (pixels)	7720490466	7716900859.330	-0.046%	-0.047%
pixels_rasterized (pixels)	10324351835	10107745205	-2.098%	-2.120%
rasterize_time (ms)	25096.213	24391.115	-2.810%	-2.850%
viewport_picture_size (bytes)	509321461.333	454501362.667	-10.763%	-11.376%

record_time (ms)	3561.923	2204.189	-38.118%	-47.094%
record_time_sk_null_canvas (ms)	3251.742	0	-100%	-200%

6/12/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2480.325	0%	200%
record_time_caching_disabled (ms)	3616.897	4237.353	17.154%	15.799%
record_time_painting_disabled (ms)	2420.503	2827.510	16.815%	15.511%
pixels_recorded (pixels)	7734865004.170	7737161562.170	0.030%	0.030%
pixels_rasterized (pixels)	10353761025	10125055309	-2.209%	-2.234%
rasterize_time (ms)	25265.645	24527.916	-2.920%	-2.963%
viewport_picture_size (bytes)	510832801.333	455178446.667	-10.895%	-11.523%
record_time (ms)	3620.058	2234.646	-38.270%	-47.326%
record_time_sk_null_canvas (ms)	3300.270	0	-100%	-200%

6/13/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2449.936	0%	200%
record_time_caching_disabled (ms)	3563.939	4213.399	18.223%	16.701%
record_time_painting_disabled (ms)	2375.855	2766.615	16.447%	15.197%
pixels_recorded (pixels)	7642143257.330	7642477045.500	0.004%	0.004%
pixels_rasterized (pixels)	10226892583	10004872226.300	-2.171%	-2.195%
rasterize_time (ms)	24837.129	24150.234	-2.766%	-2.804%
viewport_picture_size (bytes)	505061385.333	450244106.667	-10.854%	-11.476%
record_time (ms)	3567.190	2195.195	-38.462%	-47.619%
record_time_sk_null_canvas (ms)	3230.263	0	-100%	-200%

6/14/15 cluster telemetry run

N/A - We turned Slimming paint on

6/15/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2466.401	0%	200%
record_time_caching_disabled (ms)	3573.898	4209.921	17.796%	16.342%
record_time_painting_disabled (ms)	2398.177	2793.442	16.482%	15.227%
pixels_recorded (pixels)	7644900548.330	7645783636.170	0.012%	0.012%
pixels_rasterized (pixels)	10226069092.300	10010261002.300	-2.110%	-2.133%
rasterize_time (ms)	24845.553	24169.518	-2.721%	-2.758%
viewport_picture_size (bytes)	504912973.333	449373921.333	-11.000%	-11.640%
record_time (ms)	3577.106	2213.671	-38.116%	-47.090%
record_time_sk_null_canvas (ms)	3243.973	0	-100%	-200%

6/16/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2489.187	0%	200%
record_time_caching_disabled (ms)	3597.380	4318.998	20.060%	18.231%
record_time_painting_disabled (ms)	2418.832	2839.085	17.374%	15.986%
pixels_recorded (pixels)	7713842252.330	7715147324.170	0.017%	0.017%
pixels_rasterized (pixels)	10323774986.300	10098486021.700	-2.182%	-2.206%
rasterize_time (ms)	25138.790	24415.022	-2.879%	-2.921%
viewport_picture_size (bytes)	508382969.333	453126234.667	-10.869%	-11.494%
record_time (ms)	3600.723	2251.533	-37.470%	-46.108%
record_time_sk_null_canvas (ms)	3250.009	0	-100%	-200%

6/17/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2468.964	0%	200%
record_time_caching_disabled (ms)	3576.770	4136.614	15.652%	14.516%
record_time_painting_disabled (ms)	2400.651	2773.111	15.515%	14.398%
pixels_recorded (pixels)	7655716500.170	7653408117.830	-0.030%	-0.030%
pixels_rasterized (pixels)	10239834487.700	10012246391.700	-2.223%	-2.248%
rasterize_time (ms)	25051.441	24338.985	-2.844%	-2.885%
viewport_picture_size (bytes)	504916292	449554184	-10.965%	-11.601%
record_time (ms)	3580.319	2213.621	-38.173%	-47.177%
record_time_sk_null_canvas (ms)	3205.623	0	-100%	-200%

6/18/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2486.930	0%	200%
record_time_caching_disabled (ms)	3586.249	4260.223	18.793%	17.179%
record_time_painting_disabled (ms)	2416.531	2846.135	17.778%	16.326%
pixels_recorded (pixels)	7694193743.500	7696091443.500	0.025%	0.025%
pixels_rasterized (pixels)	10293239486.300	10068773817.700	-2.181%	-2.205%
rasterize_time (ms)	25078.676	24384.211	-2.769%	-2.808%
viewport_picture_size (bytes)	507718740	452555905.333	-10.865%	-11.489%
record_time (ms)	3589.554	2193.979	-38.879%	-48.260%
record_time_sk_null_canvas (ms)	3242.148	0	-100%	-200%

6/19/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2449.496	0%	200%

record_time_caching_disabled (ms)	3547.860	4175.336	17.686%	16.249%
record_time_painting_disabled (ms)	2388.129	2766.924	15.862%	14.696%
pixels_recorded (pixels)	7658185033.170	7659467184.830	0.017%	0.017%
pixels_rasterized (pixels)	10244579657.700	10020579662.300	-2.187%	-2.211%
rasterize_time (ms)	25003.950	24266.864	-2.948%	-2.992%
viewport_picture_size (bytes)	505756877.333	450717344	-10.883%	-11.509%
record_time (ms)	3551.495	2193.171	-38.247%	-47.290%
record_time_sk_null_canvas (ms)	3208.374	0	-100%	-200%

6/20/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2447.726	0%	200%
record_time_caching_disabled (ms)	3585.474	4201.973	17.194%	15.833%
record_time_painting_disabled (ms)	2387.614	2769.452	15.992%	14.808%
pixels_recorded (pixels)	7739124698	7734653208.830	-0.058%	-0.058%
pixels_rasterized (pixels)	10349446268.300	10117575207	-2.240%	-2.266%
rasterize_time (ms)	25303.308	24547.811	-2.986%	-3.031%
viewport_picture_size (bytes)	510613617.333	454916545.333	-10.908%	-11.537%
record_time (ms)	3588.623	2206.092	-38.525%	-47.717%
record_time_sk_null_canvas (ms)	3238.576	0	-100%	-200%

6/21/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2404.177	0%	200%
record_time_caching_disabled (ms)	3485.603	4107.519	17.842%	16.381%
record_time_painting_disabled (ms)	2344.578	2731.138	16.487%	15.232%
pixels_recorded (pixels)	7583558612.330	7579428147.330	-0.054%	-0.054%

pixels_rasterized (pixels)	10143404407.700	9911572173	-2.286%	-2.312%
rasterize_time (ms)	24744.440	24011.930	-2.960%	-3.005%
viewport_picture_size (bytes)	500612724	446081612	-10.893%	-11.520%
record_time (ms)	3489.012	2179.201	-37.541%	-46.216%
record_time_sk_null_canvas (ms)	3151.514	0	-100%	-200%

6/22/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2445.212	0%	200%
record_time_caching_disabled (ms)	3534.649	4173.330	18.069%	16.572%
record_time_painting_disabled (ms)	2370.424	2762.968	16.560%	15.294%
pixels_recorded (pixels)	7721928583.670	7722758031.170	0.011%	0.011%
pixels_rasterized (pixels)	10329112074.300	10113175230.300	-2.091%	-2.113%
rasterize_time (ms)	25356.438	24631.405	-2.859%	-2.901%
viewport_picture_size (bytes)	509444161.333	453937209.333	-10.896%	-11.523%
record_time (ms)	3537.823	2192.958	-38.014%	-46.935%
record_time_sk_null_canvas (ms)	3188.011	0	-100%	-200%

6/23/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2442.414	0%	200%
record_time_caching_disabled (ms)	3523.913	4129.915	17.197%	15.835%
record_time_painting_disabled (ms)	2377.953	2736.973	15.098%	14.038%
pixels_recorded (pixels)	7761697472.330	7760495818.830	-0.015%	-0.015%
pixels_rasterized (pixels)	10361028286.300	10139686410.300	-2.136%	-2.159%
rasterize_time (ms)	25287.169	24566.836	-2.849%	-2.890%
viewport_picture_size (bytes)	510588134.667	454788066.667	-10.929%	-11.560%

record_time (ms)	3527.168	2178.835	-38.227%	-47.260%
record_time_sk_null_canvas (ms)	3189.107	0	-100%	-200%

6/24/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2475.191	0%	200%
record_time_caching_disabled (ms)	3591.461	4209.101	17.197%	15.836%
record_time_painting_disabled (ms)	2410.141	2794.194	15.935%	14.759%
pixels_recorded (pixels)	7766358120.330	7773525950.500	0.092%	0.092%
pixels_rasterized (pixels)	10367442646.300	10155719633.700	-2.042%	-2.063%
rasterize_time (ms)	25267.156	24576.742	-2.732%	-2.770%
viewport_picture_size (bytes)	511399858.667	455595642.667	-10.912%	-11.542%
record_time (ms)	3594.649	2218.004	-38.297%	-47.367%
record_time_sk_null_canvas (ms)	3246.794	0	-100%	-200%

6/25/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2562.764	0%	200%
record_time_caching_disabled (ms)	3702.595	4322.963	16.755%	15.460%
record_time_painting_disabled (ms)	2503.005	2865.141	14.468%	13.492%
pixels_recorded (pixels)	7725544109.830	7724871229.830	-0.009%	-0.009%
pixels_rasterized (pixels)	10332154914.300	10114513267	-2.106%	-2.129%
rasterize_time (ms)	25201.135	24493.453	-2.808%	-2.848%
viewport_picture_size (bytes)	510078125.333	454494305.333	-10.897%	-11.525%
record_time (ms)	3705.772	2288.401	-38.248%	-47.292%
record_time_sk_null_canvas (ms)	3372.829	0	-100%	-200%

6/26/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	3166.955	0%	200%
record_time_caching_disabled (ms)	4552.733	5328.891	17.048%	15.709%
record_time_painting_disabled (ms)	3074.593	3565.208	15.957%	14.778%
pixels_recorded (pixels)	7260754491.170	7265266117.170	0.062%	0.062%
pixels_rasterized (pixels)	9715724999.670	9516956359.670	-2.046%	-2.067%
rasterize_time (ms)	23738.738	23073.132	-2.804%	-2.844%
viewport_picture_size (bytes)	613307938.667	556501573.333	-9.262%	-9.712%
record_time (ms)	4556.442	2830.880	-37.871%	-46.717%
record_time_sk_null_canvas (ms)	4134.921	0	-100%	-200%

6/27/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	3333.821	0%	200%
record_time_caching_disabled (ms)	4737.407	5536.540	16.869%	15.556%
record_time_painting_disabled (ms)	3207.972	3703.956	15.461%	14.352%
pixels_recorded (pixels)	7567326583	7569029029.500	0.022%	0.022%
pixels_rasterized (pixels)	10118563533	9907361485	-2.087%	-2.109%
rasterize_time (ms)	24652.813	23944.782	-2.872%	-2.914%
viewport_picture_size (bytes)	638419084	580007092	-9.149%	-9.588%
record_time (ms)	4740.868	2952.881	-37.714%	-46.479%
record_time_sk_null_canvas (ms)	4303.710	0	-100%	-200%

6/28/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	3331.189	0%	200%

record_time_caching_disabled (ms)	4689.436	5494.309	17.164%	15.807%
record_time_painting_disabled (ms)	3211.771	3685.806	14.759%	13.745%
pixels_recorded (pixels)	7578252095.670	7578951059.170	0.009%	0.009%
pixels_rasterized (pixels)	10130447574.300	9923103185.670	-2.047%	-2.068%
rasterize_time (ms)	24637.857	23926.528	-2.887%	-2.929%
viewport_picture_size (bytes)	639921400	581561534.667	-9.120%	-9.556%
record_time (ms)	4692.776	2973.808	-36.630%	-44.843%
record_time_sk_null_canvas (ms)	4256.398	0	-100%	-200%

6/29/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	3244.033	0%	200%
record_time_caching_disabled (ms)	4613.510	5405.994	17.177%	15.819%
record_time_painting_disabled (ms)	3134.959	3583.643	14.312%	13.356%
pixels_recorded (pixels)	7486375137	7485545381.500	-0.011%	-0.011%
pixels_rasterized (pixels)	10010335607.700	9803835265	-2.063%	-2.084%
rasterize_time (ms)	24259.485	23569.057	-2.846%	-2.887%
viewport_picture_size (bytes)	631265466.667	573803465.333	-9.103%	-9.537%
record_time (ms)	4617.293	2856.906	-38.126%	-47.106%
record_time_sk_null_canvas (ms)	4224.123	0	-100%	-200%

6/30/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	3293.844	0%	200%
record_time_caching_disabled (ms)	4730.778	5469.219	15.609%	14.479%
record_time_painting_disabled (ms)	3201.561	3653.177	14.106%	13.177%
pixels_recorded (pixels)	7736817834	7732816052	-0.052%	-0.052%

pixels_rasterized (pixels)	10347251300.300	10128974863	-2.110%	-2.132%
rasterize_time (ms)	25144.789	24422.375	-2.873%	-2.915%
viewport_picture_size (bytes)	653726620	594082050.667	-9.124%	-9.560%
record_time (ms)	4734.832	2883.828	-39.093%	-48.591%
record_time_sk_null_canvas (ms)	4353.878	0	-100%	-200%

7/1/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	3301.138	0%	200%
record_time_caching_disabled (ms)	4741.640	5593.506	17.966%	16.485%
record_time_painting_disabled (ms)	3187.651	3676.495	15.336%	14.243%
pixels_recorded (pixels)	7732049222.330	7732041826.330	0.000%	0.000%
pixels_rasterized (pixels)	10341982673.700	10126142678.300	-2.087%	-2.109%
rasterize_time (ms)	25218.508	24504.075	-2.833%	-2.874%
viewport_picture_size (bytes)	652486934.667	592932750.667	-9.127%	-9.564%
record_time (ms)	4745.156	3033.609	-36.069%	-44.006%
record_time_sk_null_canvas (ms)	4297.963	0	-100%	-200%

7/1/15 cluster telemetry run (2)

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	3239.210	0%	200%
record_time_caching_disabled (ms)	4731.402	5429.407	14.753%	13.739%
record_time_painting_disabled (ms)	3144.290	3602.369	14.569%	13.579%
pixels_recorded (pixels)	8024906789.500	8022407759.830	-0.031%	-0.031%
pixels_rasterized (pixels)	10708665769	10393795167	-2.940%	-2.984%
rasterize_time (ms)	25279.034	24444.626	-3.301%	-3.356%
viewport_picture_size (bytes)	640168238.667	574292081.333	-10.290%	-10.849%

record_time (ms)	4734.948	2986.081	-36.935%	-45.301%
record_time_sk_null_canvas (ms)	4311.066	0	-100%	-200%

7/2/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	3139.480	0%	200%
record_time_caching_disabled (ms)	4517.283	5245.484	16.120%	14.918%
record_time_painting_disabled (ms)	3038.289	3478.637	14.493%	13.514%
pixels_recorded (pixels)	8021322169.500	8025471340.830	0.052%	0.052%
pixels_rasterized (pixels)	10696158453	10388167263	-2.879%	-2.922%
rasterize_time (ms)	25479.371	24651.454	-3.249%	-3.303%
viewport_picture_size (bytes)	617942166.667	552061313.333	-10.661%	-11.262%
record_time (ms)	4521.114	2858.442	-36.776%	-45.062%
record_time_sk_null_canvas (ms)	4100.735	0	-100%	-200%

7/3/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	3025.369	0%	200%
record_time_caching_disabled (ms)	4553.943	5246.713	15.213%	14.137%
record_time_painting_disabled (ms)	2986.198	3354.360	12.329%	11.613%
pixels_recorded (pixels)	8008596062.830	8006175182.170	-0.030%	-0.030%
pixels_rasterized (pixels)	10689388717.700	10374742533	-2.944%	-2.988%
rasterize_time (ms)	25376.351	24589.614	-3.100%	-3.149%
viewport_picture_size (bytes)	617182638.667	551378688	-10.662%	-11.262%
record_time (ms)	4557.413	2740.524	-39.867%	-49.792%
record_time_sk_null_canvas (ms)	4113.407	0	-100%	-200%

7/3/15 cluster telemetry run (midday)

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	3001.116	0%	200%
record_time_caching_disabled (ms)	4491.936	5068.549	12.837%	12.062%
record_time_painting_disabled (ms)	2969.008	3328.326	12.102%	11.412%
pixels_recorded (pixels)	7979907047.500	7982494177.330	0.032%	0.032%
pixels_rasterized (pixels)	10632536740.300	10321616730.300	-2.924%	-2.968%
rasterize_time (ms)	25263.741	24462.719	-3.171%	-3.222%
viewport_picture_size (bytes)	616146586.667	550264114.667	-10.693%	-11.297%
record_time (ms)	4495.479	2697.453	-39.996%	-49.994%
record_time_sk_null_canvas (ms)	4082.881	0	-100%	-200%

7/4/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	3111.869	0%	200%
record_time_caching_disabled (ms)	4590.349	5289.815	15.238%	14.159%
record_time_painting_disabled (ms)	3070.521	3459.322	12.662%	11.908%
pixels_recorded (pixels)	8008864341.500	8012674436.670	0.048%	0.048%
pixels_rasterized (pixels)	10695282089	10383800927	-2.912%	-2.955%
rasterize_time (ms)	25448.013	24632.691	-3.204%	-3.256%
viewport_picture_size (bytes)	638873904	572690825.333	-10.359%	-10.925%
record_time (ms)	4594.193	2844.418	-38.087%	-47.046%
record_time_sk_null_canvas (ms)	4160.842	0	-100%	-200%

7/6/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	3101.808	0%	200%

record_time_caching_disabled (ms)	4560.434	5232.983	14.747%	13.735%
record_time_painting_disabled (ms)	3051.538	3427.003	12.304%	11.591%
pixels_recorded (pixels)	8019665885.670	8020113934.170	0.006%	0.006%
pixels_rasterized (pixels)	10709462351	10394720180.300	-2.939%	-2.983%
rasterize_time (ms)	25511.423	24668.851	-3.303%	-3.358%
viewport_picture_size (bytes)	640356188	574745032	-10.246%	-10.799%
record_time (ms)	4564.089	2722.464	-40.350%	-50.549%
record_time_sk_null_canvas (ms)	4131.046	0	-100%	-200%

7/6/15 cluster telemetry run (android)

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	18490.517	0%	200%
record_time_caching_disabled (ms)	28380.631	34170.138	20.400%	18.511%
record_time_painting_disabled (ms)	18018.933	20728.000	15.035%	13.983%
pixels_recorded (pixels)	6261450016.670	6269262142	0.125%	0.125%
rasterize_time (ms)	163484.124	157615.859	-3.590%	-3.655%
pixels_rasterized (pixels)	8956767575.330	8553391719.330	-4.504%	-4.607%
viewport_picture_size (bytes)	316000683.333	285337912.667	-9.703%	-10.198%
record_time (ms)	28411.359	17037.232	-40.034%	-50.053%
record_time_sk_null_canvas (ms)	25795.520	0	-100%	-200%

7/8/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2970.617	0%	200%
record_time_caching_disabled (ms)	4361.285	5042.021	15.609%	14.479%
record_time_painting_disabled (ms)	2920.669	3269.169	11.932%	11.260%
pixels_recorded (pixels)	7937308217.170	7939057136.500	0.022%	0.022%

pixels_rasterized (pixels)	10591935368.300	10291411006.300	-2.837%	-2.878%
rasterize_time (ms)	25135.254	24319.475	-3.246%	-3.299%
viewport_picture_size (bytes)	634554093.333	569255676	-10.290%	-10.849%
record_time (ms)	4364.826	2603.453	-40.354%	-50.554%
record_time_sk_null_canvas (ms)	3945.843	0	-100%	-200%

7/9/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2939.565	0%	200%
viewport_picture_size (bytes)	644592670.667	799722929.333	24.066%	21.481%
record_time_caching_disabled (ms)	4416.415	5120.800	15.949%	14.771%
record_time_painting_disabled (ms)	2918.561	3261.327	11.744%	11.093%
pixels_recorded (pixels)	8022276848.670	8017040557	-0.065%	-0.065%
pixels_rasterized (pixels)	10696476357	10384381477.700	-2.918%	-2.961%
rasterize_time (ms)	25332.132	24543.566	-3.113%	-3.162%
record_time (ms)	4420.065	2621.865	-40.683%	-51.071%
record_time_sk_null_canvas (ms)	3979.349	0	-100%	-200%

7/10/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2971.319	0%	200%
viewport_picture_size (bytes)	632934134.667	793077749.333	25.302%	22.460%
record_time_caching_disabled (ms)	4402.984	5076.598	15.299%	14.212%
record_time_painting_disabled (ms)	2933.346	3297.298	12.407%	11.683%
pixels_recorded (pixels)	7916308169.670	7920803498	0.057%	0.057%
pixels_rasterized (pixels)	10577647963	10274866112.300	-2.862%	-2.904%
rasterize_time (ms)	25040.256	24262.467	-3.106%	-3.155%

record_time (ms)	4407.275	2590.132	-41.231%	-51.938%
record_time_sk_null_canvas (ms)	3962.500	0	-100%	-200%

7/11/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2943.149	0%	200%
viewport_picture_size (bytes)	634211690.667	794283789.333	25.240%	22.411%
record_time_caching_disabled (ms)	4356.241	4973.484	14.169%	13.232%
record_time_painting_disabled (ms)	2908.432	3229.601	11.043%	10.465%
pixels_recorded (pixels)	7976076340.670	7973200922.830	-0.036%	-0.036%
pixels_rasterized (pixels)	10619160351	10306082341.700	-2.948%	-2.992%
rasterize_time (ms)	25123.962	24335.200	-3.139%	-3.190%
record_time (ms)	4359.339	2572.871	-40.980%	-51.541%
record_time_sk_null_canvas (ms)	3920.968	0	-100%	-200%

7/12/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2952.128	0%	200%
viewport_picture_size (bytes)	639630960	802202326.667	25.416%	22.551%
record_time_caching_disabled (ms)	4373.285	5008.982	14.536%	13.551%
record_time_painting_disabled (ms)	2912.308	3243.871	11.385%	10.772%
pixels_recorded (pixels)	8051375980	8051391627.500	0.000%	0.000%
pixels_rasterized (pixels)	10726769097.700	10410366861.700	-2.950%	-2.994%
rasterize_time (ms)	25430.749	24617.459	-3.198%	-3.250%
record_time (ms)	4376.671	2591.512	-40.788%	-51.237%
record_time_sk_null_canvas (ms)	3930.435	0	-100%	-200%

7/13/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2936.002	0%	200%
viewport_picture_size (bytes)	638249689.333	800092449.333	25.357%	22.504%
record_time_caching_disabled (ms)	4402.405	5083.204	15.464%	14.354%
record_time_painting_disabled (ms)	2903.123	3238.020	11.536%	10.907%
pixels_recorded (pixels)	8033755127.330	8038741338	0.062%	0.062%
pixels_rasterized (pixels)	10707743950.300	10400926677	-2.865%	-2.907%
rasterize_time (ms)	25480.141	24704.834	-3.043%	-3.090%
record_time (ms)	4405.985	2598.528	-41.023%	-51.608%
record_time_sk_null_canvas (ms)	3973.578	0	-100%	-200%

7/14/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2978.420	0%	200%
viewport_picture_size (bytes)	639814441.333	801474046.667	25.267%	22.433%
record_time_caching_disabled (ms)	4471.118	5091.035	13.865%	12.966%
record_time_painting_disabled (ms)	2945.221	3289.286	11.682%	11.037%
pixels_recorded (pixels)	8053096633.500	8050663497.670	-0.030%	-0.030%
pixels_rasterized (pixels)	10729910137	10417193258.300	-2.914%	-2.958%
rasterize_time (ms)	25527.438	24759.223	-3.009%	-3.055%
record_time (ms)	4474.885	2623.987	-41.362%	-52.146%
record_time_sk_null_canvas (ms)	4054.804	0	-100%	-200%

7/15/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2257.907	0%	200%

viewport_picture_size (bytes)	510478038.667	676818161.333	32.585%	28.020%
record_time_caching_disabled (ms)	3382.943	3830.736	13.237%	12.415%
record_time_painting_disabled (ms)	2225.905	2517.071	13.081%	12.278%
pixels_recorded (pixels)	8044813713.330	8041268628.500	-0.044%	-0.044%
pixels_rasterized (pixels)	10716027337.700	10404315524.300	-2.909%	-2.952%
rasterize_time (ms)	25359.646	24557.752	-3.162%	-3.213%
record_time (ms)	3385.820	2005.894	-40.756%	-51.187%
record_time_sk_null_canvas (ms)	3020.644	0	-100%	-200%

7/16/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2246.322	0%	200%
viewport_picture_size (bytes)	510043364	684695040	34.243%	29.237%
record_time_caching_disabled (ms)	3366.297	3935.206	16.900%	15.583%
record_time_painting_disabled (ms)	2207.176	2557.937	15.892%	14.722%
pixels_recorded (pixels)	8036688664.830	8035143414	-0.019%	-0.019%
pixels_rasterized (pixels)	10708915136.300	10394446805	-2.937%	-2.980%
rasterize_time (ms)	25311.048	24529.277	-3.089%	-3.137%
record_time (ms)	3369.608	2091.322	-37.936%	-46.816%
record_time_sk_null_canvas (ms)	3004.630	0	-100%	-200%

7/17/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2269.140	0%	200%
viewport_picture_size (bytes)	510525876	677082672	32.625%	28.049%
record_time_caching_disabled (ms)	3391.845	3854.334	13.635%	12.765%
record_time_painting_disabled (ms)	2242.537	2531.838	12.901%	12.119%

pixels_recorded (pixels)	8031114434.830	8022616619.670	-0.106%	-0.106%
pixels_rasterized (pixels)	10709659243	10395293401.700	-2.935%	-2.979%
rasterize_time (ms)	25413.510	24619.745	-3.123%	-3.173%
record_time (ms)	3395.155	2011.778	-40.746%	-51.171%
record_time_sk_null_canvas (ms)	3025.571	0	-100%	-200%

7/18/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2269.996	0%	200%
viewport_picture_size (bytes)	504338408	1020417902.670	102.328%	67.693%
record_time_caching_disabled (ms)	3402.628	3899.022	14.589%	13.597%
record_time_painting_disabled (ms)	2242.303	2542.521	13.389%	12.549%
pixels_recorded (pixels)	7923991977.670	7920895021.500	-0.039%	-0.039%
pixels_rasterized (pixels)	10558374528.300	10246720831.700	-2.952%	-2.996%
rasterize_time (ms)	24968.929	24190.250	-3.119%	-3.168%
record_time (ms)	3405.929	1990.286	-41.564%	-52.468%
record_time_sk_null_canvas (ms)	3076.703	0	-100%	-200%

7/19/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2248.316	0%	200%
viewport_picture_size (bytes)	499602833.333	1010379677.330	102.237%	67.653%
record_time_caching_disabled (ms)	3367.970	3859.199	14.585%	13.594%
record_time_painting_disabled (ms)	2221.822	2517.614	13.313%	12.482%
pixels_recorded (pixels)	7835019853.330	7835635098.670	0.008%	0.008%
pixels_rasterized (pixels)	10444158950.300	10137321467	-2.938%	-2.982%
rasterize_time (ms)	24639.904	23890.753	-3.040%	-3.087%

record_time (ms)	3371.084	1971.214	-41.526%	-52.407%
record_time_sk_null_canvas (ms)	3045.546	0	-100%	-200%

7/20/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2260.892	0%	200%
viewport_picture_size (bytes)	512208230.667	1039021109.330	102.851%	67.922%
record_time_caching_disabled (ms)	3427.471	3875.702	13.078%	12.275%
record_time_painting_disabled (ms)	2232.360	2523.472	13.041%	12.242%
pixels_recorded (pixels)	8053752192.670	8049507602.330	-0.053%	-0.053%
pixels_rasterized (pixels)	10735699925.700	10421358660.300	-2.928%	-2.972%
rasterize_time (ms)	25459.364	24665.178	-3.119%	-3.169%
record_time (ms)	3430.915	2013.819	-41.304%	-52.054%
record_time_sk_null_canvas (ms)	3099.672	0	-100%	-200%

7/21/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2308.861	0%	200%
viewport_picture_size (bytes)	519104318.667	1051670402.670	102.593%	67.809%
record_time_caching_disabled (ms)	3425.617	4023.364	17.449%	16.049%
record_time_painting_disabled (ms)	2278.527	2611.368	14.608%	13.613%
pixels_recorded (pixels)	8033949814	8036542029	0.032%	0.032%
pixels_rasterized (pixels)	10722231002.300	10413294229	-2.881%	-2.923%
rasterize_time (ms)	25406.760	24654.138	-2.962%	-3.007%
record_time (ms)	3428.807	2047.021	-40.299%	-50.469%
record_time_sk_null_canvas (ms)	3118.899	0	-100%	-200%

7/22/15 - 7/25/15 cluster telemetry runs were down due to infra issues

7/25/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2574.470	0%	200%
viewport_picture_size (bytes)	552196898.667	1101596514.670	99.493%	66.441%
record_time_caching_disabled (ms)	3789.214	4323.968	14.113%	13.182%
record_time_painting_disabled (ms)	2545.657	2887.336	13.422%	12.578%
pixels_recorded (pixels)	10446018514.500	10442369821.200	-0.035%	-0.035%
pixels_rasterized (pixels)	12952986831.700	12552631937	-3.091%	-3.139%
rasterize_time (ms)	30780.262	29597.605	-3.842%	-3.918%
record_time (ms)	3792.715	2279.405	-39.900%	-49.845%
record_time_sk_null_canvas (ms)	3424.085	0	-100%	-200%

7/26/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2485.377	0%	200%
viewport_picture_size (bytes)	540336172	1065186178.670	97.134%	65.381%
record_time_caching_disabled (ms)	3655.630	4168.865	14.040%	13.119%
record_time_painting_disabled (ms)	2469.529	2784.421	12.751%	11.987%
pixels_recorded (pixels)	10083705394.800	10083186783.300	-0.005%	-0.005%
pixels_rasterized (pixels)	12496319199.700	12113166139.700	-3.066%	-3.114%
rasterize_time (ms)	29736.844	28609.559	-3.791%	-3.864%
record_time (ms)	3659.631	2205.797	-39.726%	-49.573%
record_time_sk_null_canvas (ms)	3300.061	0	-100%	-200%

7/27/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
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record_time_construction_disabled (ms)	0	2532.906	0%	200%
viewport_picture_size (bytes)	541116049.333	1091818017.330	101.772%	67.449%
record_time_caching_disabled (ms)	3678.901	4263.032	15.878%	14.710%
record_time_painting_disabled (ms)	2490.911	2844.229	14.184%	13.245%
pixels_recorded (pixels)	10243078730.800	10247750621.800	0.046%	0.046%
pixels_rasterized (pixels)	12692441727	12312320479.700	-2.995%	-3.040%
rasterize_time (ms)	30269.572	29102.036	-3.857%	-3.933%
record_time (ms)	3682.271	2263.475	-38.530%	-47.725%
record_time_sk_null_canvas (ms)	3334.575	0	-100%	-200%

7/28/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2578.127	0%	200%
viewport_picture_size (bytes)	571980866.667	1113821054.670	94.730%	64.283%
record_time_caching_disabled (ms)	3890.492	4442.110	14.179%	13.240%
record_time_painting_disabled (ms)	2552.110	2911.805	14.094%	13.166%
pixels_recorded (pixels)	10424260527.300	10418320231	-0.057%	-0.057%
pixels_rasterized (pixels)	12912165323	12523699338.300	-3.009%	-3.054%
rasterize_time (ms)	30943.993	29789.577	-3.731%	-3.802%
record_time (ms)	3893.996	2227.029	-42.809%	-54.467%
record_time_sk_null_canvas (ms)	3530.828	0	-100%	-200%

7/29/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2673.067	0%	200%
viewport_picture_size (bytes)	549137046.667	1095180777.330	99.437%	66.416%
record_time_caching_disabled (ms)	3894.622	4463.133	14.597%	13.604%

record_time_painting_disabled (ms)	2643.413	2981.229	12.780%	12.012%
pixels_recorded (pixels)	10394193355.800	10392621174.500	-0.015%	-0.015%
pixels_rasterized (pixels)	12889990351.700	12501855963	-3.011%	-3.057%
rasterize_time (ms)	30862.252	29675.120	-3.847%	-3.922%
record_time (ms)	3899.078	2271.549	-41.741%	-52.751%
record_time_sk_null_canvas (ms)	3527.522	0	-100%	-200%

7/30/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2552.864	0%	200%
viewport_picture_size (bytes)	550348392	1096555721.330	99.248%	66.331%
record_time_caching_disabled (ms)	3781.688	4338.907	14.735%	13.724%
record_time_painting_disabled (ms)	2524.372	2859.313	13.268%	12.443%
pixels_recorded (pixels)	10417748454.300	10409458535.500	-0.080%	-0.080%
pixels_rasterized (pixels)	12913093157	12520196485.700	-3.043%	-3.090%
rasterize_time (ms)	30980.631	29757.353	-3.949%	-4.028%
record_time (ms)	3785.174	2232.863	-41.010%	-51.589%
record_time_sk_null_canvas (ms)	3430.724	0	-100%	-200%

7/31/15 cluster telemetry run

Telemetry error

8/1/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2543.556	0%	200%
viewport_picture_size (bytes)	543573302.667	1087096438.670	99.991%	66.663%
record_time_caching_disabled (ms)	3743.538	4297.820	14.806%	13.786%
record_time_painting_disabled (ms)	2515.719	2870.293	14.094%	13.167%

pixels_recorded (pixels)	10316064857.500	10315540810	-0.005%	-0.005%
pixels_rasterized (pixels)	12785956730.300	12398978186.300	-3.027%	-3.073%
rasterize_time (ms)	30599.621	29363.484	-4.040%	-4.123%
record_time (ms)	3747.163	2233.108	-40.405%	-50.635%
record_time_sk_null_canvas (ms)	3378.855	0	-100%	-200%

8/2/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2488.186	0%	200%
viewport_picture_size (bytes)	542259417.333	1085257665.330	100.136%	66.727%
record_time_caching_disabled (ms)	3668.343	4202.130	14.551%	13.564%
record_time_painting_disabled (ms)	2461.662	2802.841	13.860%	12.961%
pixels_recorded (pixels)	10311741585.500	10302485868.700	-0.090%	-0.090%
pixels_rasterized (pixels)	12773247615	12379425840.300	-3.083%	-3.131%
rasterize_time (ms)	30420.852	29235.267	-3.897%	-3.975%
record_time (ms)	3671.499	2185.072	-40.486%	-50.761%
record_time_sk_null_canvas (ms)	3317.625	0	-100%	-200%

8/3/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2533.721	0%	200%
viewport_picture_size (bytes)	543766856	1088071157.330	100.099%	66.711%
record_time_caching_disabled (ms)	3736.111	4302.026	15.147%	14.081%
record_time_painting_disabled (ms)	2500.367	2834.416	13.360%	12.523%
pixels_recorded (pixels)	10318336986	10308471005.500	-0.096%	-0.096%
pixels_rasterized (pixels)	12791995509.700	12397947952.300	-3.080%	-3.129%
rasterize_time (ms)	30466.880	29217.357	-4.101%	-4.187%

record_time (ms)	3739.532	2217.839	-40.692%	-51.086%
record_time_sk_null_canvas (ms)	3377.079	0	-100%	-200%

8/4/15 cluster telemetry run

Fieldname	Total	Total with Patch	Percentage Change	Percentage Difference
record_time_construction_disabled (ms)	0	2617.661	0%	200%
viewport_picture_size (bytes)	550411614.667	1110780053.330	101.809%	67.466%
record_time_caching_disabled (ms)	3829.616	4505.977	17.661%	16.228%
record_time_painting_disabled (ms)	2574.276	2912.361	13.133%	12.324%
pixels_recorded (pixels)	10424448659	10425051830.500	0.006%	0.006%
pixels_rasterized (pixels)	12925245216.300	12539239562.300	-2.986%	-3.032%
rasterize_time (ms)	31054.845	29788.530	-4.078%	-4.163%
record_time (ms)	3833.546	2303.006	-39.925%	-49.883%
record_time_sk_null_canvas (ms)	3474.444	0	-100%	-200%

Measuring the performance of the display item cache

See: <https://codereview.chromium.org/1018053003>

Cluster telemetry run from 3/18/15: [cache-disabled performance](#)

Chrome rev: e9fc4b

Both “with” and “without patch” have --enable-slimming-paint. “With patch” has slimmingPaintDisplayItemCache disabled.

Perf dashboard results

rasterize_and_record_mico.top_25_slimming_paint_smooth:

https://chromeperf.appspot.com/report?masters=ChromiumPerf&bots=android-motoe%2Clinux-release&tests=rasterize_and_record_micro.top_25_slimming_paint_smooth%2Frecord_time&checked=record_time%2Cref

rasterize_and_record_micro key silk cases with slimming paint:

https://chromeperf.appspot.com/report?masters=ChromiumPerf&bots=linux-release&tests=rasterize_and_record_micro.key_silk_cases_with_slimming_paint%2Fviewport_picture_size&checked=viewport_picture_size%2Cref

draw_properties.tough_scrolling:

https://chromeperf.appspot.com/report?masters=ChromiumPerf&bots=chromium-rel-mac9%2Clinux-release&tests=draw_properties.tough_scrolling%2FCDP_reduction&checked=CDP_reduction%2CCDP_reduction

draw_properties.top_25:

https://chromeperf.appspot.com/report?masters=ChromiumPerf&bots=chromium-rel-mac9%2Clinux-release&tests=draw_properties.top_25%2FCDP_reduction&checked=CDP_reduction%2CCDP_reduction

memory.top_7_stress_slimming_paint:

https://chromeperf.appspot.com/report?masters=ChromiumPerf&bots=chromium-rel-mac9%2Clinux-release&tests=memory.top_7_stress_slimming_paint%2Fvm_final_size_renderer&checked=Blogger%2CBlogger_ref%2CFacebook%2CFacebook_ref%2CWordpress%2CWordpress_ref%2Chttps___mail.google.com_mail_%2Chttps___mail.google.com_mail_ref%2Chttps___plus.google.com_110031535020051778989_posts%2Chttps___plus.google.com_110031535020051778989_posts_ref%2Chttps___www.google.com_hl_en_q_barack%2Bobama%2Chttps___www.google.com_hl_en_q_barack%2Bobama_ref%2Chttps___www.google.com_calendar_%2Chttps___www.google.com_calendar_ref