

Command Line: pulse-desktop-cpp
Date: Thu May 23 17:50:59 2013
Raw run time: 35951.60 mcycles
Total calls: 9570
rdtsc overhead: 35 cycles
Per call overhead: 70 cycles
Estimated overhead: 0.6702 mcycles

Function	Calls	MCycles	Avg	Self MCycles	Self Avg
★ /Main	1	30905.8421 (100%)	30905.8421	1819.4882	1819.4882
loop	301	29086.3538 (94%)	96.6324	2.1879	0.0073
wait key	300	18507.8590 (60%)	61.6929	18507.8590	61.6929
void Window::update(...)	300	7534.1838 (24%)	25.1139	2.3868	0.0080
void Pulse::onFrame(...)	300	4215.0788 (14%)	14.0503	1.3771	0.0046
previously detected faces	287	3804.9935 (12%)	13.2578	0.5683	0.0020
void Pulse::onFace(...)	287	3804.4251 (12%)	13.2558	6.1077	0.0213
void EvmGdownIIR::onFrame(...)	287	1818.3953 (6%)	6.3359	0.7818	0.0027
convert to 8 bit	287	774.7795 (3%)	2.6996	774.7795	2.6996
pyrDown	287	355.8988 (1%)	1.2401	355.8988	1.2401
pyrUp	287	310.5361 (1%)	1.0820	310.5361	1.0820
convert to float	287	246.5864 (1%)	0.8592	246.5864	0.8592
add back to original frame	287	115.9759 (0%)	0.4041	115.9759	0.4041
temporal filter	287	13.1296 (0%)	0.0457	13.1296	0.0457
amplify	287	0.7073 (0%)	0.0025	0.7073	0.0025
void cv::detrend(...) [with T = double]	287	1655.2995 (5%)	5.7676	1655.2995	5.7676
void Pulse::draw(...)	287	128.3121 (0%)	0.4471	128.3121	0.4471
push back raw and timestamp	287	90.8463 (0%)	0.3165	90.8463	0.3165
void Pulse::bpm(...)	222	51.1195 (0%)	0.2303	51.1195	0.2303
void cv::meanFilter(...)	287	33.1456 (0%)	0.1155	33.1456	0.1155
void Pulse::peaks(...)	287	10.6457 (0%)	0.0371	10.6457	0.0371
void cv::normalization(...)	287	4.2982 (0%)	0.0150	4.2982	0.0150
shift raw and timestamp	192	3.2706 (0%)	0.0170	3.2706	0.0170
verify if raw signal is stable enough	287	2.9335 (0%)	0.0102	2.9335	0.0102
no pulse	65	0.0511 (0%)	0.0008	0.0511	0.0008
equal or more boxes than faces	13	265.3098 (1%)	20.4084	25.1766	1.9367
void Pulse::onFace(...)	13	240.0949 (1%)	18.4688	0.2959	0.0228
void EvmGdownIIR::onFrame(...)	13	140.4893 (0%)	10.8069	0.0949	0.0073
convert to float	13	71.0310 (0%)	5.4639	71.0310	5.4639
convert to 8 bit	12	32.4047 (0%)	2.7004	32.4047	2.7004
pyrDown	13	15.7889 (0%)	1.2145	15.7889	1.2145
pyrUp	12	15.3201 (0%)	1.2767	15.3201	1.2767
add back to original frame	12	4.9465 (0%)	0.4122	4.9465	0.4122
temporal filter	12	0.5413 (0%)	0.0451	0.5413	0.0451
first	1	0.3284 (0%)	0.3284	0.3284	0.3284
amplify	12	0.0336 (0%)	0.0028	0.0336	0.0028
void cv::detrend(...) [with T = double]	13	64.0148 (0%)	4.9242	64.0148	4.9242
void cv::meanFilter(...)	13	15.9259 (0%)	1.2251	15.9259	1.2251
push back raw and timestamp	13	7.3911 (0%)	0.5685	7.3911	0.5685
void cv::normalization(...)	13	5.6258 (0%)	0.4328	5.6258	0.4328
void Pulse::draw(...)	13	5.3366 (0%)	0.4105	5.3366	0.4105
void Pulse::peaks(...)	13	0.4045 (0%)	0.0311	0.4045	0.0311
void Pulse::bpm(...)	0	0.3181 (0%)	0.0352	0.3181	0.0352

void Pulse::bpm(...)	9	0.5181 (0%)	0.0333	0.5181	0.0333
verify if raw signal is stable enough	13	0.1419 (0%)	0.0109	0.1419	0.0109
shift raw and timestamp	8	0.1189 (0%)	0.0149	0.1189	0.0149
void Pulse::Face::reset()	1	0.0227 (0%)	0.0227	0.0227	0.0227
no pulse	4	0.0094 (0%)	0.0023	0.0094	0.0023
void Pulse::Face::updateBox(...)	13	0.0287 (0%)	0.0022	0.0268	0.0021
void cv::interpolate(...)	13	0.0020 (0%)	0.0002	0.0020	0.0002
int Pulse::Face::nearestBox(...)	12	0.0095 (0%)	0.0008	0.0095	0.0008
detect faces	13	143.3985 (0%)	11.0307	143.3985	11.0307
imshow	300	2374.3917 (8%)	7.9146	2374.3917	7.9146
rgb2bgr	300	463.3646 (1%)	1.5445	463.3646	1.5445
bgr2rgb	300	446.2240 (1%)	1.4874	446.2240	1.4874
void Window::drawTrackbarValues(...)	300	26.9892 (0%)	0.0900	26.9892	0.0900
void Window::drawFps(...)	300	5.7488 (0%)	0.0192	0.5109	0.0017
fps drawing	300	4.9656 (0%)	0.0166	4.9656	0.0166
fps string	10	0.1605 (0%)	0.0160	0.1605	0.0160
bool Window::Fps::update()	300	0.1118 (0%)	0.0004	0.1066	0.0004
fps tick	10	0.0052 (0%)	0.0005	0.0052	0.0005
capture	301	2182.5902 (7%)	7.2511	2182.5902	7.2511
flip	300	859.5329 (3%)	2.8651	859.5329	2.8651

Function	Calls	Self MCycles	Self Avg
★ Functions sorted by self time			
wait key	300	18507.8590 (60%)	61.6929
imshow	300	2374.3917 (8%)	7.9146
capture	301	2182.5902 (7%)	7.2511
/Main	1	1819.4882 (6%)	1819.4882
void cv::detrend(...) [with T = double]	300	1719.3143 (6%)	5.7310
flip	300	859.5329 (3%)	2.8651
convert to 8 bit	299	807.1842 (3%)	2.6996
rgb2bgr	300	463.3646 (1%)	1.5445
bgr2rgb	300	446.2240 (1%)	1.4874
pyrDown	300	371.6877 (1%)	1.2390
pyrUp	299	325.8562 (1%)	1.0898
convert to float	300	317.6175 (1%)	1.0587
detect faces	13	143.3985 (0%)	11.0307
void Pulse::draw(...)	300	133.6486 (0%)	0.4455
add back to original frame	299	120.9224 (0%)	0.4044
push back raw and timestamp	300	98.2373 (0%)	0.3275
void Pulse::bpm(...)	231	51.4376 (0%)	0.2227
void cv::meanFilter(...)	300	49.0716 (0%)	0.1636
void Window::drawTrackbarValues(...)	300	26.9892 (0%)	0.0900
equal or more boxes than faces	13	25.1766 (0%)	1.9367
temporal filter	299	13.6709 (0%)	0.0457
void Pulse::peaks(...)	300	11.0502 (0%)	0.0368
void cv::normalization(...)	300	9.9240 (0%)	0.0331
void Pulse::onFace(...)	300	6.4035 (0%)	0.0213
fps drawing	300	4.9656 (0%)	0.0166
shift raw and timestamp	200	3.3895 (0%)	0.0169
verify if raw signal is stable enough	300	3.0755 (0%)	0.0103
void Window::update(...)	300	2.3868 (0%)	0.0080
loop	301	2.1879 (0%)	0.0073
void Pulse::onFrame(...)	300	1.3771 (0%)	0.0046
void EvmGdownIIR::onFrame(...)	300	0.8766 (0%)	0.0029
amplify	299	0.7409 (0%)	0.0025
previously detected faces	287	0.5683 (0%)	0.0020
void Window::drawFps(...)	300	0.5109 (0%)	0.0017
first	1	0.3284 (0%)	0.3284
fps string	10	0.1605 (0%)	0.0160
bool Window::Fps::update()	300	0.1066 (0%)	0.0004
no pulse	69	0.0604 (0%)	0.0009
void Pulse::Face::updateBox(...)	13	0.0268 (0%)	0.0021
void Pulse::Face::reset()	1	0.0227 (0%)	0.0227
int Pulse::Face::nearestBox(...)	12	0.0095 (0%)	0.0008
fps tick	10	0.0052 (0%)	0.0005
void cv::interpolate(...)	13	0.0020 (0%)	0.0002