

Compression results for individual images (see below for averages)

Test image set: mednat, <http://sun.iinf.polsl.gliwice.pl/~rstaros/mednat/>
Experimental procedure described in: Starosolski, R.: Simple Fast and Adaptive Lossless Image Compression Algorithm. SP&E, 2007, 37(1):65-91, DOI: 10.1002/spe.746
This page downloaded from: <http://sun.iinf.polsl.gliwice.pl/~rstaros/sfalic/>

levels - actual number of intensity levels used by image pixels
runpixels - number of pixels encoded by the JPEG-LS using the "run mode"

image								compression speed [MB/s]					compression ratio [bpp]				
name	groups	width	height	size	depth	levels	runpixels	CALIC-A	CALIC-H	LPEG-LS	SZIP (-j 20)	SFALIC	CALIC-A	CALIC-H	LPEG-LS	SZIP (-j 20)	SFALIC
im_branches_03_16	big, 16bpp, natural, normal	2458	1610	3957380	16	62207	0	1.9	9.0	17.9	49.0	55.2	12.843	12.774	12.960	13.520	12.937
im_flower_03_16	big, 16bpp, natural, normal	2458	1610	3957380	16	65191	0	2.9	9.1	20.1	60.4	57.7	8.994	9.022	9.153	9.884	9.238
im_kid_03_16	big, 16bpp, natural, normal	2474	1621	4010354	16	64393	54349	2.4	8.9	19.2	53.5	55.2	10.872	10.852	10.986	11.770	11.167
im_town_03_16	big, 16bpp, natural, normal	2464	1610	3967040	16	64528	0	2.2	8.7	19.0	52.2	54.6	11.141	11.142	11.240	11.813	11.283
im_branches_09_16	medium, 16bpp, natural, normal	819	536	438984	16	58919	0	1.5	7.9	16.3	41.0	46.9	13.721	13.605	13.795	14.070	13.830
im_flower_09_16	medium, 16bpp, natural, normal	819	536	438984	16	46033	0	2.5	7.9	20.5	46.9	46.9	9.790	9.794	9.947	10.534	10.112
im_kid_09_16	medium, 16bpp, natural, normal	824	540	444960	16	60421	1655	2.1	7.7	17.0	45.2	45.0	11.292	11.221	11.466	12.522	11.655
im_town_09_16	medium, 16bpp, natural, normal	821	536	440056	16	57984	0	2.0	8.2	17.4	45.3	46.2	12.136	11.988	12.107	12.585	12.175
im_branches_27_16	small, 16bpp, natural, normal	273	178	48594	16	29543	0	1.0	3.4	11.5	21.4	20.8	14.015	13.664	13.799	14.328	13.838
im_flower_27_16	small, 16bpp, natural, normal	273	178	48594	16	17840	0	1.7	4.1	11.3	22.4	22.4	10.399	10.281	10.424	11.412	10.585
im_kid_27_16	small, 16bpp, natural, normal	274	180	49320	16	25348	0	1.2	4.1	10.9	21.4	23.0	12.633	12.321	12.552	13.825	12.601
im_town_27_16	small, 16bpp, natural, normal	273	178	48594	16	27965	0	1.3	3.9	10.2	20.8	21.3	13.140	12.802	12.882	13.237	12.984
im_branches_03_12	big, 12bpp, natural, normal	2458	1610	3957380	12	3906	0	2.8	9.0	19.7	60.4	58.6	8.624	8.730	8.764	9.516	8.921
im_flower_03_12	big, 12bpp, natural, normal	2458	1610	3957380	12	4081	4042	5.1	11.0	22.5	73.2	77.0	4.941	5.052	5.150	5.888	5.254
im_kid_03_12	big, 12bpp, natural, normal	2474	1621	4010354	12	4076	61677	3.5	9.7	21.8	67.8	65.8	6.839	6.910	6.900	7.765	7.204
im_town_03_12	big, 12bpp, natural, normal	2464	1610	3967040	12	4066	140	3.4	9.7	21.1	67.1	66.1	7.019	7.121	7.120	7.789	7.272
im_branches_09_12	medium, 12bpp, natural, normal	819	536	438984	12	3870	0	2.3	7.2	17.9	46.9	47.7	9.460	9.549	9.548	10.053	9.818
im_flower_09_12	medium, 12bpp, natural, normal	819	536	438984	12	4077	91	4.0	8.8	20.5	61.1	59.4	5.670	5.795	5.827	6.533	6.105
im_kid_09_12	medium, 12bpp, natural, normal	824	540	444960	12	4037	2562	3.5	9.7	20.4	53.5	56.0	7.093	7.209	7.148	8.439	7.643
im_town_09_12	medium, 12bpp, natural, normal	821	536	440056	12	4020	1	3.0	8.3	19.6	53.7	52.0	7.790	7.927	7.875	8.495	8.164
im_branches_27_12	small, 12bpp, natural, normal	273	178	48594	12	3728	0	1.7	3.7	13.0	22.5	21.9	9.642	9.593	9.647	10.221	9.838
im_flower_27_12	small, 12bpp, natural, normal	273	178	48594	12	3438	2	2.6	4.5	13.2	26.3	24.4	6.017	6.097	6.159	7.324	6.602
im_kid_27_12	small, 12bpp, natural, normal	274	180	49320	12	3918	0	2.4	5.1	12.0	24.3	23.9	8.128	8.123	8.076	9.727	8.615
im_town_27_12	small, 12bpp, natural, normal	273	178	48594	12	3818	0	1.6	3.7	12.4	24.2	21.8	8.671	8.679	8.636	9.137	8.992
im_branches_03_08	big, 8bpp, natural, normal	2458	1610	3957380	8	246	3828	3.1	8.2	11.5	42.0	56.6	4.591	4.654	4.764	5.475	4.945
im_flower_03_08	big, 8bpp, natural, normal	2458	1610	3957380	8	256	983155	5.3	13.3	17.3	54.1	67.9	1.619	2.060	1.721	2.247	2.131
im_kid_03_08	big, 8bpp, natural, normal	2474	1621	4010354	8	255	153004	4.1	10.0	13.2	45.9	63.1	2.936	3.100	3.007	3.780	3.429
im_town_03_08	big, 8bpp, natural, normal	2464	1610	3967040	8	255	219828	4.0	9.9	13.5	46.3	63.4	3.126	3.287	3.226	3.821	3.509
im_branches_09_08	medium, 8bpp, natural, normal	819	536	438984	8	242	603	2.5	6.5	10.6	32.2	40.6	5.411	5.518	5.541	6.011	5.829
im_flower_09_08	medium, 8bpp, natural, normal	819	536	438984	8	256	82351	4.0	9.9	14.6	41.0	46.9	2.034	2.424	2.094	2.743	2.621
im_kid_09_08	medium, 8bpp, natural, normal	824	540	444960	8	255	19956	3.1	7.2	11.5	35.2	45.0	3.205	3.381	3.228	4.383	3.859
im_town_09_08	medium, 8bpp, natural, normal	821	536	440056	8	253	19531	2.9	7.0	11.8	35.7	44.1	3.870	3.980	3.940	4.462	4.301
im_branches_27_08	small, 8bpp, natural, normal	273	178	48594	8	241	117	1.6	2.8	6.4	12.6	15.9	5.485	5.587	5.648	6.078	5.832
im_flower_27_08	small, 8bpp, natural, normal	273	178	48594	8	255	12300	1.9	3.5	8.6	16.3	14.9	2.392	2.720	2.553	3.468	3.149
im_kid_27_08	small, 8bpp, natural, normal	274	180	49320	8	249	2058	1.7	2.8	7.6	13.4	14.6	4.056	4.160	4.156	5.621	4.790
im_town_27_08	small, 8bpp, natural, normal	273	178	48594	8	250	1699	1.7	3.0	7.0	14.1	16.0	4.624	4.693	4.700	5.079	5.082
cr_17218	cr, medical, normal	2392	1792	4286464	12	2068	232	5.0	10.4	23.3	75.8	73.6	5.094	5.210	5.226	5.719	5.487
cr_17220	cr, medical, normal	2500	2048	5120000	12	3186	905820	6.2	13.2	27.8	82.8	80.4	3.621	3.777	3.788	4.320	4.422
cr_17222	cr, medical, normal	1792	2392	4286464	12	2939	29469	5.5	11.0	23.8	78.2	75.8	4.360	4.537	4.550	4.910	4.759
cr_4503	cr, medical, normal	1670	2010	3356700	10	256	126739	5.3	11.1	23.5	80.7	76.8	4.613	4.760	4.734	5.308	5.051
cr_4507	cr, medical, normal	1760	1760	3097600	10	1024	1280747	8.7	19.3	39.9	103.1	93.1	2.107	2.160	2.189	2.799	2.913
cr_4509	cr, medical, normal	1760	2140	3766400	10	882	7349	5.4	10.9	23.6	80.0	76.6	4.103	4.209	4.236	4.685	4.526
cr_pacem_1	cr, medical, normal	1716	1910	3277560	16	24180	2	2.5	8.8	19.5	53.8	54.6	10.810	10.894	10.904	11.504	10.958
cr_pacem_2	cr, medical, normal	1531	1965	3008415	16	28627	284	2.5	8.6	19.4	54.9	53.2	10.465	10.481	10.538	11.186	10.647
cr_rtg_jb	cr, medical, normal	612	746	456552	16	3280	200	2.3	7.6	18.0	44.6	47.0	10.936	10.878	11.029	11.738	11.175
cr_siem_01_02	cr, medical, normal	1744	2128	3711232	10	913	161677	4.8	10.7	23.2	76.7	73.3	5.108	5.263	5.243	5.721	5.528
cr_siem_14_02	cr, medical, normal	1760	2368	4167680	10	638	1647331	7.8	17.9	36.4	97.3	87.4	2.843	2.946	2.924	3.335	3.650
cr_slim_1	cr, medical, normal	1866	2031	3789846	16	26539	0	2.4	8.7	19.7	53.6	53.6	10.687	10.770	10.760	11.364	10.831
ct_135960_001	ct, medical, normal																