4.27.14 12:10 PM
Revision 8.1 (Web Version)
Test Machine Specifications:
* Intel Core i7 (Sandy Bridge)
* 8 GB RAM (DDR-3 @ 1600 MHz), SSD (SATA-3)

info@squeezechart.com
squeezechart@gmx.de

Squeeze Chart 2014

©

TAR is used when the program cannot compress all files of a testset in a single archive or when recurse through subdirectories does not work properly.

http://tpi.sourceforge.jp/index.php/News
http://mattmahoney.net/dc/text.html
http://ftp.sac.sk/sac/pack/
ftp://ftp.sac.sk/pub/sac/pack

#	THE TEST DATASET'S BEST Bits Per Byte value ➡ BEST ratio ➡ UNCOMPRESSED SIZE	% weighted average 316.13769	encoding time in seconds	decoding time in seconds	APP 1.6669 20.8364% 327.811.342	AUDIO (WAV) 4.5337 56.6710% 606.681.892	CAMERA RAW 6.1909 77.3857% 577.835.051	GUTENBERG 3.0112 37.6403% 709.240.453	INSTALLER 6.4956 81.1945% 609.139.052	MOBILE 7.3490 91.8620% 492.103.406
	GUI NanoZip 0.08 -cc -m2g ('10) Sami Runsas	105,09608	6.933	6.718	69.728.614	344.830.061	454.178.452	271.181.957	572.480.489	478.680.399
2	GUI NanoZip 0.09 -cc -m2g ('11) Sami Runsas	105,11346	6.687	6.653	69.699.825	344.830.935	454.082.848	273.648.068	572.487.400	478.618.331
	◦ ZCM 0.88 -m7 -r -s (2013) Francesco Nania	108,26542	1.723		75.418.609	374.148.733	459.900.610	286.929.481	574.442.060	483.725.771
4	◦ ZCM 0.70d -m7 -r -s (2012) Francesco Nania	109,34725	1.968	2.379	75.621.740	386.194.956	463.205.174	285.838.300	574.059.514	484.204.751
	◦ ZCM 0.60d -m7 -r -s (2012) Francesco Nania	109,90809	2.278	1.988	75.296.590	386.587.597	479.334.429	292.250.083	574.089.434	483.947.409
6	GUI Precomp 0.4.3 + FreeARC 0.67 ultra +exp B.	110,28251	5.261	772	68.304.203	351.107.079	489.483.982	266.960.540	578.428.557	463.570.395
	◦ ZCM 0.50 -m7 -r -s (2012) Francesco Nania	110,36363	2.151	2.290	75.468.211	387.303.577	484.866.267	295.203.523	577.288.969	484.732.964
8	◦ ZPAQ 6.23 -method 8 ('13) Matt Mahoney	110,42622	14.814		70.980.256	425.179.239	447.489.322	281.886.218	576.298.915	480.913.794
	◦ ZPAQ 6.33 -method 77 ('13) Matt Mahoney	110,60004	11.750		71.858.850	425.204.026	447.512.299	283.252.643	576.622.979	480.937.821
10	GUI NanoZip 0.09 -cO -m2g ('11) Sami Runsas	110,61308	2.791	1.284	77.381.984	346.114.516	469.040.251	302.565.445	572.140.371	484.239.749
	◦ ZCM 0.40 -m7 -r -s (2012) Francesco Nania	110,91867	2.169	2.175	76.787.070	386.870.808	488.572.394	296.469.155	577.436.637	484.983.882
12	◦ ZPAQ 6.43 -method 67 ('13) Matt Mahoney	111,06642	14.152		71.858.143	425.023.907	447.161.962	283.234.100	576.625.702	480.925.972
	GUI WinRK 3.1.2 (ROLZ3) ('06) Malcolm Taylor	111,10112	7.416	2.596	76.614.559	343.812.879	485.395.149	286.131.614	573.646.514	481.541.757
14	◦ CCMx 1.30c opt. 7 Christian Martelock	111,37352	2.760	2.850	78.398.914	391.606.412	466.979.717	289.869.520	577.169.132	484.047.738
	GUI WinRK 3.1.2 (ROLZ2) ('06) Malcolm Taylor	112,43209	7.068	2.446	79.404.688	345.763.924	497.270.881	286.859.957	586.211.755	484.970.039
16	◦ MCM 0.3 -9 (2013) Matthieu Chartier	112,60664	4.783		82.529.921	450.157.372	458.055.272	283.140.276	577.002.867	482.161.433
	◦ MCM 0.4 -9 (2013) Matthieu Chartier	113,69469	4.707		83.602.512	451.091.291	462.517.672	286.044.317	578.346.969	482.662.407
18	GUI NanoZip 0.09 -co -m2g ('11) Sami Runsas	113,79406	476		81.589.626	347.875.435	491.875.984	299.055.780	579.100.338	485.878.580
	GUI FreeARC 0.67 (2012) ultra Bulat Ziganshin	113,98933	2.091		80.135.168	351.107.079	501.293.683	302.192.145	578.708.723	490.303.204
20	◦ PAQ9a -9 ('07) Matt Mahoney et al.	114,07239	15.702	16.591	79.385.282	454.055.569	457.915.837	280.356.591	574.254.311	481.186.044
	◦ LPAQ9m -9 (2009) Matt Mahoney et al.	114,41153	11.152	11.947	82.315.624	483.211.343	466.721.795	283.643.675	574.158.259	483.441.042
22	◦ LPAQ9i -9 (2008) Matt Mahoney et al.	114,46857	11.191	12.359	82.714.262	487.740.113	466.891.537	281.229.305	574.033.450	483.245.196
	◦ LPAQ7e -9 (2007) Matt Mahoney et al.	114,83981	11.071	11.481	82.483.738	504.932.570	464.634.575	278.351.488	574.136.654	481.952.693
24	◦ LPAQ4e -9 (2007) Matt Mahoney et al.	115,34216	10.865	11.715	83.789.117	507.404.490	461.784.004	278.771.170	574.253.251	480.992.119
	◦ TANGELO 2.0 (2013) Jan Ondrus	115,42819	19.933		78.906.065	451.394.450	458.817.126	288.474.516	576.488.437	481.671.721
26	GUI Precomp 0.4.3 + 7-ZIP 9.3.0 ultra 128MB	116,42884	6.491		78.762.255	441.043.625	487.151.173	267.535.706	576.683.197	460.935.592
	◦ CMM4 0.2b 96 (2008) Christopher Mattern	116,62104	5.534	4.843	84.362.230	510.874.018	468.665.303	286.575.129	578.462.992	483.475.436
28	◦ LPAQ1 -9 (2007) Matt Mahoney et al.	116,86397	11.332	12.095	84.488.523	516.330.193	467.019.940	281.496.506	574.106.066	481.430.206
	GUI UHARC 0.6b -mx/-m3 -mm+ U. Herklotz	116,97022	8.159		80.232.277	395.293.930	477.253.880	301.703.146	576.204.183	485.825.646
30	GUI 7-ZIP 9.3.0 LZMA2 ultra128:fb273:bt4:lc4	117,06648	2.830	1.639	79.500.816	441.035.970	493.043.375	304.617.390	577.098.703	487.440.321
	◦ BIT 0.7 LWCX -P=5 Osman Turan	117,32270	6.284		85.276.158	510.306.657	468.307.527	287.061.074	578.113.802	483.390.665
32	GUI UHARC 0.4 ('01) -mx/-m3 -mm+ U. Herklotz	117,60932	5.590		83.847.245	397.613.629	478.646.282	304.729.847	582.549.377	485.987.428
	◦ TANGELO 2.4 (2013) Jan Ondrus	117,75499	3.947		90.970.960	522.955.272	475.340.089	272.133.582	577.858.048	459.121.106
34	◦ PPMonstr ver J -o16 -m1600 D. Shkarin	117,78993	24.383	24.475	77.709.784	490.752.860	476.341.671	284.281.919	577.945.041	482.786.594
	◦ SBC 0.970r3 -m3 -b63 -os Sami Makinen	118,00548	2.250		97.303.748	352.299.035	473.450.475	304.275.096	582.698.288	485.944.367
36	◦ TANGELO 2.3 (2013) Jan Ondrus	118,04697	3.665		89.309.602	516.077.838	474.196.801	290.752.195	577.801.308	484.812.825
	GUI Squeez 5.63 / SpeedCmd (32MB ultra) auto	118,38570	7.325		85.752.271	361.509.947	489.920.850	298.886.419	577.911.802	483.275.656
38	◦ RZM 0.07e (2008) Christian Martelock	118,43869	5.095		80.746.777	470.056.236	478.724.569	307.929.578	576.714.890	484.783.957
	◦ REFLATE 0c1 (2012) Eugene Shelwien	118,58749	10.107		76.576.376	535.503.906	486.028.153	304.551.121	494.587.185	474.923.533
40	GUI Compressia 1.0b max, 15MB, english, solid Yaak	118,88569	23.753		82.086.199	488.772.424	475.960.844	298.548.015	591.134.831	491.043.803
	◦ Packet 1.1 -h4 -b512 -mx Francesco Nania	119,27314	3.046		85.566.387	400.864.727	481.667.787	313.282.760	574.046.330	485.433.113
42	GUI FLASHZIP 1.1.3 (2013) -r -s -mx3 -k7 -b1024	119,31325	1.667		88.961.837	384.619.601	496.852.845	319.261.810	578.923.326	486.803.989
	GUI FLASHZIP 1.1.0 (2012) -r -s -mx3 -k7 -b1024	119,33399	1.697		88.961.837	384.633.518	497.660.006	319.268.847	578.923.326	486.803.989
44	GUI UHARC 0.6b -m3 -mm+ -md+ 32 MB U. Herklotz	119,62002	8.793		84.008.979	396.767.348	486.843.544	330.829.476	576.204.182	486.101.118
	GUI STUFFIT 14.0.1.27 (2010) bit-perfect	119,92363	2.679		95.432.555	403.289.660	484.760.105	271.777.543	585.557.564	452.056.163
46	◦ MComp 2.00 -mf3x 600m (2008) M. Taylor	119,96754	11.171		84.823.247	515.406.343	485.310.639	299.880.731	576.103.500	484.900.652
	GUI WinRar 4.20 solid best force PPMd E. Roshal	120,18950	3.285	2.183	92.959.368	408.872.338	487.351.765	305.582.289	592.737.914	490.590.092
48	◦ BSC 3.1.0 -b1024r -m0 -e2 Ilya Grebnov	120,59777	1.069	650	106.062.384	413.460.698	504.212.594	294.567.520	585.458.040	490.817.414
	◦ BSC 3.1.0 -b1024rsca -m0 -e2 Ilya Grebnov	120,78965	1.319		105.153.385	413.450.026	504.454.068	294.567.520	585.458.040	490.817.414
50	◦ TC 5.2 Dev 2 (2007) Ilya Muravyov	120,97694	9.846		88.221.049	533.737.274	477.290.425	293.893.106	581.154.502	484.626.306
	◦ PPMonstr ver I (2002) -o16 -m800 D. Shkarin	121,08219	22.427	15.429	85.932.151	510.674.710	478.413.959	286.529.751	582.155.671	486.867.113
52	◦ BSC 3.1.0 -b1024rsca -m0 -H28 -M255 I. Gre	121,31154	1.288		108.172.356	412.185.160	507.255.944	300.897.766	581.534.528	484.920.043
	◦ Blizzard 0.24 300m ('08) Chr. Martelock	121,32574			98.816.831	502.115.581	492.083.648	293.705.230	582.751.906	485.502.585
54	◦ LZPXJ 1.2h opt. 9 (2007) Ilya Muravyov	121,35444	3.430		90.121.506	430.775.908	489.930.019	315.898.262	578.386.352	485.829.975
	GUI CTXf 0.75 pre-b1 (2003) -me -b L. Nikita	121,50288			101.856.759	407.913.955	491.460.126	308.122.202	590.693.341	489.051.945
56	◦ Blizzard 0.24 30m ('08) Chr. Martelock	122,24916			97.991.972	526.871.036	467.663.215	297.266.236	583.452.991	483.739.655
	GUI WinRar 4.20 solid best auto filter E. Roshal	122,58817	913	522	93.212.800	409.067.261	510.033.127	307.792.311	583.840.363	487.787.256
58	GUI BEE 0.7.9 -m3 -d9 A.Filinsky & M.Caruso	122,68370			96.006.788	551.429.377	486.258.767	298.267.270	593.584.313	488.392.823
	GUI DGCA 1.00 - 1.10e ('04-'06) Shin-ichi Tsuruta	122,92189	2.004		111.059.712	399.127.808	460.377.360	309.172.160	588.457.568	483.831.216
60	◦ YZX 0.11 -r -s -m9 -b8 -h5 Francesco Nania	122,97752	1.455		96.926.596	401.535.701	494.529.097	322.515.123	596.487.480	487.188.193
	GUI PeaZip 3.3 .7z ultra + adv filters G. Tani	123,09528			79.557.116	543.048.858	499.251.222	321.073.660	577.113.799	487.604.108
62	◦ BCM 0.14 (2013) c1000 Ilya Muravyov	123,60568	2.137		109.064.976	499.127.439	499.199.461	297.005.032	591.413.505	487.250.991
	◦ LZMA SDK 9.20 + LZMAREC E. Shelwien	123,68326			86.206.329	532.637.848	488.712.409	305.744.176	576.224.449	484.247.497
64	◦ BBB 1.0 cm100 (2006) Matt Mahoney	123,72660	17.109		108.106.941	514.242.745	479.925.123	299.022.344	588.953.967	485.035.191
	◦ M03 1.1 blocksize 1GB M.A. Maniscalco	123,88802	4.658		107.096.473	517.633.014	505.470.065	296.483.301	589.660.415	489.144.884
66	◦ PPMd Jr1 sh8 -o16 -m1600 -c E. Shelwien	124,09877			96.927.521	549.847.725	493.046.240	296.677.240	590.076.036	491.288.116
	◦ Durilca'light 0.5 -m800 -o32 Dmitry Shkarin	124,10369	6.173		101.735.814	546.893.296	492.566.701	293.867.873	587.588.278	489.455.650
68	◦ M03 0.2 α (2009) 250 MB M.A. Maniscalco	124,19914			108.069.738	522.103.606	494.193.746	296.964.823	589.340.653	486.960.489
	◦ MComp 2.00 -mw -M400m (2008) M. Taylor	124,21281			108.270.717	501.899.826	497.994.252	300.046.294	590.697.638	488.567.000
70	◦ BCM 0.12 -b100 (2010) Ilya Muravyov	124,25783	1.593		109.705.317	524.070.262	480.453.720	300.316.365	593.675.968	486.671.559
	◦ LZHAM α7r1 -m4 -d29 -e -x R. Geldreich, Jr.	124,50221	10.405		88.884.166	528.950.524	495.594.431	310.270.236	573.257.031	485.522.129
72	◦ CSC 3.2 final (2011) -m3 -d512 -r Fu Siyuan	124,71721	1.209		88.534.765	411.371.250	482.105.407	324.170.450	577.523.189	487.374.122
	◦ LZHAM α6 -m4 -d29 -e -x R. Geldreich, Jr.	124,87475	7.650		88.961.163	537.127.392	499.118.240	310.356.437	573.282.323	485.550.450
74	◦ Distance Coder 1.24 -b16300el Edgar Binder	125,04299			116.635.812	421.314.004	478.896.238	308.597.737	594.394.289	487.528.532
	GUI WinRar 5.0 solid best 1024MB E. Roshal	125,08731	1.156	358	90.158.844	432.589.940	504.354.380	331.617.046	575.585.759	487.400.203
76	GUI Free Zip Archiver 2.0.1.2 max Hamstersoft	125,32985			80.295.152	542.499.471	500.230.528	321.375.512	581.634.110	489.936.161
	◦ UHBC 1.0 ('03) -b128m -m3 Uwe Herklotz	125,44342			108.002.392	528.946.894	487.957.436	300.665.961	587.743.831	485.577.118
78	GUI M03 (2005) 32 MB Michael A. Maniscalco	125,60268			108.531.937	532.097.101	482.505.605	302.273.608	594.825.412	490.128.616
	◦ LZMA SDK 9.20 (2010) -d27 -fb273 I. Pavlov	125,64327			88.578.383	541.569.322	500.259.902	311.681.734	581.554.823	489.877.140
80	GUI KuaiZip 2.3.2 (2011) best solid	125,68009	2.374		81.921.732	541.637.746	500.544.087	322.423.957	581.732.635	489.874.761
	◦ SMAC 1.20 (2014) Jean-Marie Barone	126,19638	10.982		103.436.610	562.984.205	489.531.813	296.380.124	581.170.478	482.917.722
82	◦ NanoZip 0.09 -cDP 2GB ('11) Sami Runsas	126,22252	392		95.021.017	357.601.959	520.764.815	326.122.831	574.792.742	486.796.795
	◦ SMAC 1.19 (2013) Jean-Marie Barone	126,32566	10.869		103.593.603	563.091.725	489.903.454	296.796.060	581.210.127	483.008.912
84	◦ SMAC 1.18 (2013) Jean-Marie Barone	126,32570	15.301		103.593.755	563.091.038	489.903.135	296.796.116	581.210.396	483.009.146
	GUI WinZip 18.0 ZIPX best method - Corel Corp.	126,41723	993	743	107.598.037	353.119.941	499.808.100	288.191.080	581.665.614	466.061.860
86	◦ UHARC 0.2 (1997) -m3 -md2048 -mm+ U. Herkl	126,49523			96.421.346	427.704.915	473.765.789	340.795.851	582.621.787	484.745.699
	◦ BSSC 0.95α -b16383as Sergeo Sizikov	126,56427			106.488.393	514.610.218	482.648.538	305.387.815	589.828.182	486.063.486
88	GUI Power Archiver 13.02.04 7z opt.ultra solid	126,61163	2.698		82.645.296	606.680.942	499.781.278	308.482.141	577.347.120	487.529.751
	◦ XZ 5.1.3 alpha -9 -e -T0 (2013) Lasse Collin	126,75112	2.194	351	89.174.836	542.073.960	499.282.256	316.127.380	577.309.560	487.397.416
90	GUI WinAce 2.5 - 2.69 max solid + f. M. Lemke	126,78849	3.309		93.533.161	402.349.345	520.115.641	341.769.413	585.010.169	489.126.332
	◦ PPMVC 1.2 -o8 -m256 P. Skibinski	126,90756			105.065.841	552.136.807	482.698.369	299.863.893	591.019.735	488.092.322
92	◦ TC 5.1 Dev. 7x (512 MB) Ilya Muravyov	127,06940			90.373.039	533.692.540	476.837.081	330.228.855	583.742.981	484.319.020
	GUI LZIP 1.11 -9 (2010) Antonio Diaz Diaz	127,10973	5.912	396	90.361.782	542.419.333	500.000.209	316.321.162	582.134.631	489.939.093
94	◦ RINGS 2.0 -s -r -m7 (2013) Francesco Nania	127,26989	1.815		115.689.544	406.943.112	475.629.327	323.516.471	586.955.935	483.626.079
	GUI WinZip 16.0 - 17.5 .ZIPX Corel Corp.	127,28627	1.144	1.107	113.745.713	353.119.941	499.808.100	287.887.660	583.318.308	466.050.207
96	GUI M03 (2005) 8 MB Michael A. Maniscalco	127,32185			110.686.632	537.803.423	478.051.361	307.495.411	596.877.061	489.208.756
	◦ BALZ 1.11 Mode ex (2008) Ilya Muravyov	127,33083			91.437.732	528.099.307	490.572.583	322.583.267	586.053.677	490.499.206
98	GUI WinRar 4.20 solid best no PPMd E. Roshal	127,47559	636	226	94.055.673	408.840.098	511.441.694	340.923.674	583.872.759	487.786.522
	◦ OLFC 6.6w (blocksize 200 MB) Florin Ghido	127,62060			111.882.033	541.403.831	498.385.630	305.738.834	588.307.467	485.795.961
100	GUI WinZip 12.0.8252 optimize best Corel Corp.	127,66881			114.068.434	353.119.941	499.941.562	287.992.261	584.523.077	466.234.013
	◦ PPMonstr ver G -o16 -m256 ('00) D. Shkarin	127,72137			108.233.769	559.661.105	485.197.621	304.871.365	607.113.152	490.093.603
102	GUI B1 Free Archiver 1.4.67 (2013) ultra	127,75225	3.623		90.531.315	541.418.792	501.457.181	319.193.219	581.862.268	490.060.333
	◦ BWCM c128 (2013) Nauful	128,32156	4.865		112.710.682	526.989.975	488.491.347	305.793.155	597.466.988	491.762.627
104	GUI Squeez 4.20.440 ('03) 4MB max + filter	128,39573	4.127		95.661.953	369.832.091	517.199.086	336.725.810	583.950.962	487.687.694
	◦ DARK 0.46 -b128mf1s2 (2006) D. Malyshev	128,41545			113.572.641	547.941.949	499.581.603	305.213.200	595.135.649	490.054.574
106	◦ BMA 1.35 -m64m -mx -ax A. Cherenkov	128,53243	3.483		109.050.502	396.021.787	478.872.414	322.437.857	580.831.147	483.988.300
	◦ M99 128 MB -m ('07) Michael A. Maniscalco	128,61523			115.809.668	541.800.959	496.664.847	306.068.242	591.972.098	486.794.888
108	GUI ALZIP 8.5 .EGG solid, p. on ratio ESTSOFT	129,09279	3.438		91.625.148	541.831.172	500.777.382	321.995.902	584.408.803	489.807.206
	◦ M99 32 MB -m ('07) Michael A. Maniscalco	129,17165			116.097.070	540.862.071	485.630.231	308.767.288	591.173.241	486.368.507
110	◦ YBS 0.03f -m16m Vadim Yoockin	129,86338			119.353.441	543.052.963	482.277.855	308.911.519	601.489.992	490.448.245
	◦ DARK 0.50 -b200ms (2006) Dmitry Malyshev	130,03169			115.630.396	542.509.538	477.088.827	309.751.586	593.767.607	488.747.044
112	◦ ABC 2.4 (2003) -c Jürgen Abel	130,06467			115.922.733	542.777.545	479.587.507	311.868.301	593.027.830	485.653.639
	◦ MComp 2.00 -mc -M512m (2008) M. Taylor	130,08571			113.605.203	530.686.585	485.385.486	306.667.317	590.126.320	485.300.139
114	GUI PIM 2.90 (Best) (2009) Ilya Muravyov	130,13056			109.487.244	436.709.530	483.882.325	321.416.881	587.720.438	486.662.689
	◦ RINGS 1.5 opt. 9 ('08) Francesco Nania	130,38652			113.861.705	544.680.797	494.820.010	314.419.309	588.280.135	485.809.683
116	GUI PIM 2.50 (Best) (2008) Ilya Muravyov	130,55668			110.439.081	436.709.095	488.735.879	321.530.074	591.545.645	486.662.941
	GUI WinZip 11.0 - 11.1 optimize best Corel Corp.	130,71161			123.954.067	353.118.653	484.871.726	323.070.215	597.005.138	489.111.257
118	GUI DZO Compressor 0.1.1 beta Essenso Lab	130,78348	2.489		91.988.920	546.358.648	504.943.936	330.980.725	585.904.942	493.369.032
	GUI Stuffit 8.0-8.5 (sitx) (Alladin Systems)	130,80715			96.178.107	541.133.248	500.962.506	334.586.086	585.659.904	489.996.550
120	◦ CM0 (2013) Nauful	131,17963	5.041		107.828.454	549.287.007	495.786.268	317.349.443	611.304.042	503.297.860
	GUI CBT 1.072 ß 26 Mode 4, solid K-Shinya	131,21074			111.799.089	557.429.839	485.751.994	315.205.871	596.197.591	490.123.917
122	GUI WinArchiver 3.1 (2013) .MZP best	131,51605	3.011		92.138.575	539.821.325	505.676.498	330.765.243	585.758.383	487.621.514
	◦ ICT Universal Coder 2.1 ('99)	131,53467			115.109.749	550.112.440	487.586.241	315.923.570	593.459.230	488.289.367
124	◦ CM0_EXT (2013) Nauful	131,74350	26.502		110.433.348	558.557.651	500.305.335	324.185.104	617.486.813	507.092.220
	◦ HOOK 1.4 ('09) 912 MB Francesco Nania	131,83259			110.134.915	552.653.991	502.405.822	311.569.828	594.752.241	495.687.475
126	GUI WinRar 2.90 Final (2001) Eugene Roshal	131,85140			110.224.188	402.585.362	517.258.490	345.841.601	587.893.539	488.155.324
	◦ BMA 1.33 -m16m -a (2006) A. Cherenkov	131,97143	3.602		112.958.518	425.228.044	479.823.864	324.950.189	585.721.310	484.279.511
128	◦ LZPM 0.16 mode ex (2008) Ilya Muravyov	132,03048			94.890.237	564.230.073	501.102.036	324.796.871	590.934.557	490.819.022
	◦ COMPROX 0.11.0 ('12) -b200 -F -f Zhang Li	132,10920	1.838		100.747.414	553.606.526	510.792.045	317.612.755	594.851.807	485.958.021
130	◦ 4x4 0.2 Option 9 (2008) Bulat Ziganshin	132,18261			92.280.013	542.869.941	501.846.538	338.914.222	582.182.218	489.857.886
	◦ PPMNKM 1.00b1+ -M:50 -MT1 M. Smirnov	132,29712			108.202.032	565.908.423	499.625.063	318.266.371	586.462.954	485.444.737
132	◦ QC 0.50 (2006) e -8 Denis Kyznetsov	132,38643			108.656.636	543.280.782	509.650.622	336.645.753	583.354.739	489.757.415
	GUI BioArchiver 1.9 hyper, automatic	132,57251			110.194.789	558.320.196	488.536.455	323.205.052	598.609.391	489.624.805
134	GUI B1 Free Archiver 1.4.67 (2013) smart	132,61957	2.729		101.371.338	541.028.511	502.790.035	343.730.280	587.069.279	489.132.534
	◦ LZPM 0.11 (02.09.07) -9 Ilya Muravyov	132,66529			105.981.478	562.837.930	499.029.440	321.461.252	589.834.526	488.307.108
136	◦ TarsaLZP Interim (21.08.07) Piotr Tarsa	132,83739			111.877.078	541.620.909	501.567.082	319.754.089	581.460.403	488.286.686
	◦ Packet 1.0 -s -r -mx6 Francesco Nania	132,85296	31.157		99.077.272	496.401.192	524.928.911	335.141.349	579.155.168	487.690.587
138	◦ BALZ 1.15 Mode ex (2008) Ilya Muravyov	132,98143			97.836.059	564.089.154	500.270.017	332.803.843	591.055.612	491.168.091
	◦ ZZIP 0.36 -56m -mm -mx Damien Debin	133,11868	3.027		123.336.683	438.292.318	484.427.499	328.148.602	589.735.432	486.426.165
140	◦ COMPROLZ 0.10.0 -b250 -F -f Zhang Li	133,15819	3.180		103.283.915	553.885.305	535.105.797	322.560.032	588.229.478	490.041.425
	◦ PAQ 1 / KGB Archiver (2002) Matt Mahoney	133,24468			111.691.347	558.968.216	497.779.801	325.078.597	623.224.719	508.596.589
142	◦ FBC 1.0 300MB blocksize David Catt	133,29826	2.080		121.472.516	549.068.294	520.721.113	315.675.051	606.380.453	497.258.374
	GUI CTXf 0.69 ('03) (Superb) -me -b L. Nikita	133,34803			117.485.136	594.118.349	522.877.780	321.300.315	592.810.691	489.285.713
144	GUI Stuffit 9.0 - 9.5/10 arsenic (sitx) (Allume)	133,43942			132.483.665	555.103.236	500.965.387	292.111.030	585.659.904	464.478.633
	◦ SZIP 1.12a -b41 -o50 Michael Schindler	133,57105	9.981		117.749.972	553.406.495	490.359.935	322.617.848	596.678.998	490.228.358
146	◦ TC 5.1 Dev 6 (2006) Ilya Muravyov	133,60071			117.485.822	533.694.947	476.848.083	358.511.710	583.842.755	484.655.640
	◦ CMM 17.09.2007 Christopher Mattern	133,72549			109.098.390	577.182.253	503.636.404	319.122.704	619.656.890	509.076.696
148	◦ RZIP 2.1 -9 -L9 (2006) Andrew Tridgell	133,81779			110.869.723	554.530.289	497.277.050	322.003.694	577.999.596	487.619.593
	◦ SZIP 1.12a -b41 -o10 Michael Schindler	134,03232	2.617		118.265.223	553.408.878	490.378.418	323.627.864	596.725.401	490.228.655
150	GUI PIM 2.01 (PPMd) (2007) Ilya Muravyov	134,22287			110.430.818	554.300.084	483.264.629	321.530.074	591.545.645	486.662.941
	◦ UFA 0.04 β 1 -mx -mu32 -s -mg Igor Pavlov	134,53032			102.719.665	513.118.775	513.069.462	343.802.663	589.974.074	489.721.065
152	◦ GRZIP-II 0.2.4 -b8m -l -m4 Ilya Grebnov	134,57999			116.084.065	552.379.360	485.807.422	328.621.553	591.539.735	488.607.350
	◦ Disintegrator 0.9b -mg -4 c ('98) T. Guglielmi	135,07307			114.362.276	445.542.140	533.919.363	342.106.542	586.814.539	486.559.188
154	◦ ECP 0.e.s. (2000) -b127 Michael Semikov	135,18173			121.950.876	561.177.708	498.174.723	326.837.528	588.953.840	486.279.803
	◦ BruteCM 0.1c (2008) VCORE	135,21325			110.651.611	568.453.994	507.597.894	335.409.915	616.539.883	507.825.102
156	◦ PreComp 0.4.3 Christian Schneider	135,56429	4.787		117.288.997	554.026.701	485.444.925	300.983.585	593.540.724	465.869.981
	◦ PPMX 0.08 (2012) Ilya Muravyov	135,56833	2.460		115.083.530	568.891.134	509.693.152	316.240.073	594.994.125	490.815.079
158	◦ M99 2.2.1 -m 128m Michael A. Maniscalco	135,57137			129.072.891	538.384.498	494.571.779	304.145.889	591.972.098	484.739.970
	◦ Tornado 0.5 (fsbench) -11 Bulat Ziganshin	135,57360			100.081.335	524.447.517	527.069.916	333.150.702	578.726.025	489.265.917
160	GUI WinIMP 1.2 max Alg. 1/2, 1020, 16mb	135,65196			106.320.489	497.307.336	495.905.291	348.857.758	586.746.309	487.311.676
	◦ QUAD 1.12 Final -x (2007) Ilya Muravyov	135,65665			105.751.232	550.179.090	497.208.340	343.638.380	585.087.868	484.798.415
162	◦ TinyCM 0.2 option 8 (2012) David Catt	135,73630	4.779		117.552.921	572.626.534	486.574.278	314.517.710	588.200.518	483.635.881
	GUI 7-ZIP 2.3 β 28 solid max (2003) Igor Pavlov	135,78211			93.620.276	541.634.196	502.878.621	330.433.967	587.404.096	490.515.110
164	◦ FreeHOOK 0.2 option c 912-2-1-6 F. Nania	135,96776			116.859.167	555.345.940	525.993.776	310.283.217	597.006.214	494.438.297
	◦ Chile 0.3d (2005) -c -v=2 -b=2048	136,27015			121.804.591	554.438.005	494.732.211	328.120.116	591.260.535	485.881.030
166	◦ M99 2.2.1 -m 32m Michael A. Maniscalco	136,29053			129.072.891	538.330.557	483.483.006	306.652.298	591.788.579	484.766.539
	◦ COMPROLZ 0.1.0 -b256 (2012) Zhang Li	136,39393	3.149		116.283.646	553.885.305	535.147.189	322.006.084	594.798.165	495.920.231
168	GUI WinTurtle 1.6.0 (2008) Francesco Nania	136,44853	1.266		124.993.854	418.843.361	508.385.494	344.526.816	611.175.419	494.243.780
	◦ PPMX 0.07 (2011) Ilya Muravyov	136,97813	2.435		116.994.050	568.031.507	508.711.593	318.456.169	594.163.111	489.788.534
170	◦ CAB (LZX21 max) Microsoft Corporation	136,99946			103.658.331	569.143.638	511.361.656	341.841.938	583.442.111	487.054.444
	◦ Transform 1.02 (maximum) M. Bone	137,03060			122.777.093	562.200.718	502.823.742	333.646.422	589.605.126	489.332.334
172	◦ CM1 (2013) Nauful	137,08649	3.069		117.228.862	542.814.620	512.465.506	334.962.208	589.940.645	490.040.116
	GUI WinTurtle 1.4.0 (2007) Francesco Nania	137,19234			133.076.772	431.582.542	501.949.621	338.321.819	608.496.736	495.738.549
174	GUI WinRar 5.0 non-solid best 1024MB E. Roshal	137,21516	782		110.776.323	432.036.909	504.138.793	362.363.462	579.245.477	487.491.543
	GUI WinZip 17.0.10381 PPMd Corel Corp.	137,27019	3.340		122.423.943	557.033.662	484.872.486	322.300.682	597.005.058	490.939.923
176	◦ BIX 1.00 β7 -s -m1 -mdg ('99) Igor Pavlov	137,53499	5.917		102.426.328	574.786.046	515.819.352	335.793.206	593.804.320	497.512.746
	◦ Tornado 0.4 -12 (2008) Bulat Ziganshin	137,66260			101.312.258	525.637.868	522.075.646	339.203.277	581.939.211	489.462.947
178	◦ LZXQ 0.3 (2007) Vcore	137,67806			119.946.244	561.340.638	501.587.597	329.380.316	603.767.598	497.973.199
	◦ BWTZIP 1.0 ('03) Stephan T. Lavavej	137,78814			124.598.594	572.391.654	506.849.776	330.650.185	618.276.216	507.162.281
180	◦ PreComp 0.4.2 Christian Schneider	137,81787	4.706		117.309.103	554.026.701	485.721.302	302.037.213	662.499.328	492.103.406
	GUI PIM 1.25 (2006) Ilya Muravyov	137,96093			118.211.550	453.906.326	504.717.071	341.296.831	586.161.889	484.815.060
182	◦ iTarsaLZP (2012) Piotr Tarsa	137,96340	10.920		119.138.243	565.184.095	517.385.677	328.201.681	611.353.872	509.016.843
	◦ COMPROX 0.1.1 (10.2011) Zhang Li opt.9	138,04948	978		114.068.027	563.611.214	502.478.703	331.714.516	586.950.831	487.392.242
184	◦ Arhangel 1.40 -1 -2 -mt -mm/5/8 -l31900 G. Lya	138,28745			127.377.151	414.109.592	505.116.350	336.801.333	596.959.683	490.765.045
	◦ BWC 0.99d Willem Monsuwe	138,41345			122.937.482	553.850.756	494.894.795	337.207.965	594.590.928	489.288.623
186	GUI ICE-OWS max (2002) Raphaël Mounier	138,57561			121.941.378	559.203.026	488.622.047	323.454.834	595.857.165	488.783.379
	◦ CROOK 0.1 -m1600 -O7 Juri Valdmann	138,82600	2.119		131.825.277	558.607.972	506.105.209	313.714.771	608.815.359	496.524.246
188	GUI 12Ghosts 7.0 - 9.7 (ZIP2)	139,12219			124.368.324	554.100.949	497.374.100	338.174.458	594.566.825	488.681.118
	◦ DACT 0.8.39 (2004) Roy Keene	139,13837			124.593.889	552.939.425	497.291.626	338.484.734	589.852.305	487.908.959
190	◦ EXP1 Experimental Archiver 1.0 B. Ziganshin	139,15348			124.699.168	554.027.529	497.307.536	338.101.588	593.658.751	488.616.338
	GUI BZIP2 1.06 (2010) --best Julian Seward	139,16412	973	362	124.668.515	554.028.837	497.309.031	338.101.826	593.685.733	488.616.264
192	◦ PBZIP2 1.1.7 -p8 -9 J.Seward & J.Gilchrist	139,21662	268	117	124.877.894	553.971.146	497.293.620	337.931.444	593.810.122	488.639.302
	◦ LBZIP2 0.23 -9 (2011) Laszlo Ersek	139,21797	245	172	124.885.916	553.948.496	497.286.572	337.934.874	593.766.509	488.631.277
194	◦ XTREME 1.06 -m0 -s -t8 ('99) B. Sabin	139,31002			111.208.219	558.365.746	522.075.646	336.321.699	582.949.945	487.777.428
	◦ CSC3 CountrySideCompressor -9 Fu Siyuan	139,43528			101.416.893	565.068.388	507.678.278	345.657.866	586.334.524	488.417.712
196	◦ iROLZ (2010) Andrew Polar	139,56920	1.610		106.398.059	564.181.812	501.013.479	349.841.470	592.363.258	491.381.520
	◦ LZSR 0.01 (2011) Francesco Nania	139,57927	930		111.646.859	554.783.009	494.831.432	347.265.362	586.234.137	488.704.485
198	◦ COMPROX 0.2.0 (2011) Zhang Li opt.9	139,72340	1.014		114.313.454	579.545.738	512.895.544	339.473.946	627.327.795	519.108.703
	◦ Urban Compressor ('91) U. Koistinen	139,91079			130.268.297	547.030.119	487.528.536	329.906.597	593.307.632	484.069.428
200	◦ TarsaLZP (04.08.2007) Piotr Tarsa	140,29274			119.652.270	585.613.851	528.945.788	334.446.800	638.666.005	530.428.771
	GUI WinHKI 1.3 - 1.79 hki1 (04-06) H.P. Imp	141,08349			133.687.676	554.118.890	497.781.185	340.866.714	593.663.678	488.653.347
202	◦ ASD 0.2.0 -m5 -mdh (1998) T. Svensson	141,23732			111.560.747	572.008.149	524.059.578	337.951.280	582.770.212	487.746.292
	◦ LZAP 0.20.0 beta (1998) Mike Goldman	141,36451			129.146.242	554.252.461	487.805.169	330.832.519	590.607.127	484.425.757
204	GUI Stuffit 7.0-7.5 (2002) Aladdin Systems	141,57578			130.672.637	557.355.933	501.069.368	342.552.699	597.445.694	491.240.975
	GUI RAR 2.00 (1996) -m5 -md1024 -mm -s	142,13492			123.846.884	411.512.894	518.224.376	379.081.389	592.456.838	488.623.941
206	GUI RAR 2.50 (1996) -m5 -md1024 -mm -s	142,13663			123.846.884	411.512.894	518.224.586	379.067.633	592.454.379	488.624.239
	◦ FPAQ S06 (2006)	142,17783			120.143.848	549.045.312	522.779.225	352.548.930	595.333.628	497.901.902
208	◦ XP v5 c2 (2010) ppmcontext	142,36241	16.037		125.183.228	565.585.134	501.529.064	347.573.890	593.830.572	488.045.433
	◦ LZPXJ 1.0e (2006) Ilya Muravyov	142,56996			117.407.689	561.407.507	501.340.307	357.220.687	583.061.343	485.907.980
210	◦ BGB-LZ2A Brendan G. Bohannon	143,08066			118.391.903	587.978.055	517.290.664	339.000.669	600.546.394	496.868.856
	GUI Compress 1.22 (max) Philipp Druyts	143,10485			124.668.530	553.933.155	496.902.041	338.101.671	593.259.574	488.616.423
212	◦ Archiver 0.2 CM2 (2014) Nauful	143,14585			117.395.622	586.439.972	519.851.911	336.169.272	602.562.869	491.848.379
	◦ P12 Neural Network Matt Mahoney	143,31646			130.968.096	551.120.705	495.796.654	348.975.104	614.465.598	500.612.752
214	◦ SR3 (2007) M. Mahoney & F. Nania	143,32990			127.354.058	563.285.040	503.591.684	335.791.159	587.865.519	485.890.400
	GUI PAR 2.00 build 61 (2001) Philipp Druyts	144,73279			132.287.538	553.933.463	496.902.785	340.087.849	593.250.754	488.553.083
216	◦ TarsaLZP (2007) Piotr Tarsa	145,16629			129.368.574	557.653.905	513.712.905	364.007.516	638.666.005	496.693.761
	GUI WinZip 17.0.10381 bzip2 Corel Corp.	145,45435	921		133.681.069	553.936.207	496.905.314	340.402.679	593.253.551	488.560.067
218	◦ LZPX 1.5b (2005) Ilya Muravyov	146,00212			121.724.441	580.882.611	514.216.038	362.877.902	606.266.486	502.969.317
	◦ Tornado 0.3 default (2008) Bulat Ziganshin	146,71041			109.625.008	526.797.146	529.540.160	368.273.238	587.074.180	489.916.795
220	◦ SR2 v2 (2008) Piotr Tarsa	146,98353			132.986.742	563.062.912	503.544.407	349.567.461	591.840.817	486.132.392
	◦ FCM3-RC (2008) Ilya Muravyov	147,13313			123.205.230	564.307.315	499.786.180	361.191.488	592.539.694	490.983.136
222	◦ BZP 0.3 (2008) Francesco Nania	147,36647			128.641.104	561.118.105	499.721.298	353.851.100	593.412.205	487.195.849
	◦ SLUG X (2009) Christian Martelock	147,38406			121.119.522	579.242.558	528.982.786	364.315.442	585.896.363	489.921.518
224	◦ RH4 (2014) Nauful	147,47121	678		126.080.999	573.814.138	531.363.220	357.558.039	589.054.933	488.494.018
	GUI WinAce 1.2 (1999) max 1024k M. Lemke	147,75164			114.984.931	573.584.209	530.284.960	363.810.029	588.684.739	488.608.806
226	GUI X1 0.95 β (aum4l3d9) Stig Valentini	147,76682			135.296.235	582.648.318	503.706.006	350.127.372	609.160.738	492.148.775
	GUI ACE-ARCHIVER 1.2 (maximum) M. Lemke	148,09763			113.267.053	573.588.289	530.282.802	363.814.953	588.684.449	488.608.422
228	◦ 4x4 0.2 Option 5 (2008) Bulat Ziganshin	148,41447			113.365.154	552.114.298	529.652.896	370.464.774	587.875.931	490.009.961
	GUI UC II r3 Pro ('95) stst Nico De Vries	149,00050			129.910.596	514.253.250	519.639.028	379.350.358	593.149.296	489.318.744
230	◦ HA 0.999b (1995) a21r Harri Hirvola	149,69173	18.863		132.361.955	569.599.932	511.972.375	341.904.923	596.833.844	490.312.383
	◦ SEMONE 0.6b2 -mb/mm3 Vladimir Semenyuk	149,84420			126.987.113	572.837.639	530.765.416	379.523.449	591.417.913	487.494.148

#	Program	PGM / PPM 3.3703 42.1287% 633.482.445	SOURCES 1.2253 15.3160% 200.001.544	XML 1.1948 14.9354% 1.000.000.000	usual file extension	architecture OS Name bit depth	cores used	when released / developed	where developed (country)	algorithms used	program age in years
	NanoZip 0.08 -cc -m2g ('10)	273.691.671	31.341.330	150.005.854	.nz	win64	1	3-Jun-2010	Finland	Fast CM + filter	3,90
2	NanoZip 0.09 -cc -m2g ('11)	273.648.831	31.322.350	149.750.763	.nz	win64	4	4-Nov-2011	Finland	Fast CM + filter	2,48
	ZCM 0.88 -m7 -r -s (2013)	264.529.873	33.321.514	163.973.392	.zcm	win32	1	21-Jun-2013	Italy	Fast CM + filter	0,85
4	ZCM 0.70d -m7 -r -s (2012)	268.775.465	33.915.597	166.349.880	.zcm	win32	1	16-Oct-2012	Italy	Fast CM + filter	1,53
	ZCM 0.60d -m7 -r -s (2012)	269.208.615	33.841.222	164.815.299	.zcm	win32	1	11-Sep-2012	Italy	Fast CM	1,63
6	Precomp 0.4.3 + FreeARC 0.67 ultra +exp B.	303.459.585	34.744.226	184.970.713	.arc	win32	1	12-Dec-2012	Russia	Dedup. + LZMA + PPMd + GRZip + TTA	1,38
	ZCM 0.50 -m7 -r -s (2012)	274.063.005	33.687.899	163.874.712	.zcm	win32	1	2-Jun-2012	Italy	Fast CM	1,90
8	ZPAQ 6.23 -method 8 ('13)	286.018.404	30.632.248	153.677.859	.zpaq	win64	8	25-Mar-2013	United States	Dedup. + Fast CM + filter	1,09
	ZPAQ 6.33 -method 77 ('13)	286.204.166	31.381.272	157.683.624	.zpaq	win64	8	21-Jun-2013	United States	Dedup. + Fast CM + filter	0,85
10	NanoZip 0.09 -cO -m2g ('11)	276.707.145	35.424.470	172.140.357	.nz	win64	4	4-Nov-2011	Finland	BWT + LZT + filter	2,48
	ZCM 0.40 -m7 -r -s (2012)	274.060.854	33.890.897	165.529.281	.zcm	win32	1	16-May-2012	Italy	Fast CM	1,95
12	ZPAQ 6.43 -method 67 ('13)	286.197.426	31.386.867	157.682.201	.zpaq	win64	8	16-Dec-2013	United States	Dedup. + Fast CM + filter	0,36
	WinRK 3.1.2 (ROLZ3) ('06)	266.877.734	34.882.268	181.306.077	.rk	win64	4	1-Mar-2006	New Zealand	ROLZ-3 + PPM	8,16
14	CCMx 1.30c opt. 7	296.599.146	32.892.892	167.908.122	.ccmx	win32	1	24-Apr-2008	Germany	Fast CM + filter	6,01
	WinRK 3.1.2 (ROLZ2) ('06)	266.988.020	35.221.720	182.165.440	.rk	win64	4	5-Feb-2012	New Zealand	ROLZ-3 + PPM	2,23
16	MCM 0.3 -9 (2013)	294.329.466	32.210.270	156.605.126	.mcm	win32	1	17-Jun-2013	Canada	Fast CM	0,86
	MCM 0.4 -9 (2013)	300.188.192	32.963.389	158.018.013	.mcm	win32	1	23-Jul-2013	Canada	Fast CM	0,76
18	NanoZip 0.09 -co -m2g ('11)	277.080.042	38.903.203	185.674.185	.nz	win64	4	4-Nov-2011	Finland	BWT + LZT + filter	2,48
	FreeARC 0.67 (2012) ultra	303.462.080	34.886.587	184.182.322	.arc	win32	2	12-Dec-2012	Russia	Dedup. + LZMA + PPMd + GRZip + TTA + delta	1,38
20	PAQ9a -9 ('07)	294.809.748	31.283.840	159.137.846	.paq9a	win32	1	31-Dec-2007	United States	LZP + Fast CM	6,33
	LPAQ9m -9 (2009)	298.879.799	31.224.332	149.353.612	.lpaq9m	win32	1	20-Feb-2009	USA + Russia	Fast CM	5,19
22	LPAQ9i -9 (2008)	296.361.005	31.263.296	149.804.592	.lpaq9i	win32	1	27-Apr-2008	USA + Russia	Fast CM + E8E9	6,00
	LPAQ7e -9 (2007)	298.708.197	31.143.250	150.172.517	.lpaq7e	win32	1	31-Oct-2007	USA + Russia	Fast CM + E8E9	6,49
24	LPAQ4e -9 (2007)	296.982.199	31.636.700	153.118.456	.lpaq4	win32	1	1-Oct-2007	USA + Russia	Fast CM + filter	6,57
	TANGELO 2.0 (2013)	291.703.582	31.314.571	164.118.727	.tan	win32	1	6-Jul-2013	Czech Republic	Fast CM	0,81
26	Precomp 0.4.3 + 7-ZIP 9.3.0 ultra 128MB	337.122.045	35.800.534	180.044.575	.7z	win32	1	2-Jan-2009	Russia	LZMA2lc4:128; PPMd:1024 o10 + delta:3	5,32
	CMM4 0.2b 96 (2008)	303.327.118	32.582.554	164.930.949	.cmm4	win32	1	4-Jun-2008	Germany	Context Mixing	5,90
28	LPAQ1 -9 (2007)	304.463.339	31.930.129	157.883.859	.lpaq1	win32	1	24-Jul-2007	United States	Fast CM	6,76
	UHARC 0.6b -mx/-m3 -mm+	292.075.855	35.198.987	203.974.516	.uha	win32	1	6-Feb-2005	Germany	PPM 50 MB + LZ + ARI 291 MB	9,23
30	7-ZIP 9.3.0 LZMA2 ultra128:fb273:bt4:lc4	322.709.493	36.126.394	179.406.622	.7z	win64	4	7-Sep-2012	Russia	LZMA2:128, PPMd:1024 o14, delta:3	1,64
	BIT 0.7 LWCX -P=5	303.742.288	32.915.199	168.718.324	.bit	win32	1	4-Jan-2009	Turkiye	Context Mixing	5,31
32	UHARC 0.4 ('01) -mx/-m3 -mm+	293.432.096	36.934.509	212.232.106	.uha	win32	1	28-Dec-2001	Germany	LZP ALZ PPM	12,33
	TANGELO 2.4 (2013)	318.791.327	33.876.178	174.391.732	.tan	win32	1	17-Aug-2013	Czech Republic	Fast CM	0,69
34	PPMonstr ver J -o16 -m1600	309.513.090	31.490.102	154.192.936	.pmm	win32	1	16-Feb-2006	Russia	PPM-II	8,20
	SBC 0.970r3 -m3 -b63 -os	304.403.688	38.774.613	194.610.863	.sbc	win64	1	11-Mar-2008	Finland	BWT + ARI	6,13
36	TANGELO 2.3 (2013)	312.002.309	33.346.539	172.846.758	.tan	win32	1	22-Jul-2013	Czech Republic	Fast CM	0,76
	Squeez 5.63 / SpeedCmd (32MB ultra) auto	355.828.299	40.097.449	185.335.396	.sqx	win64	1	11-May-2005	Germany	LZR / PPM (o8, 768 MB) + filter	8,96
38	RZM 0.07e (2008)	320.968.722	34.837.417	193.711.323	.rzm	win32	1	16-Mar-2008	Germany	64 MB sliding window ROLZ	6,11
	REFLATE 0c1 (2012)	349.677.414	33.730.570	193.096.414	.ref	win32	1	31-Dec-2011	Russia	ZLIB/JPEG recompressor + LZMA	2,33
40	Compressia 1.0b max, 15MB, english, solid	310.841.214	37.257.475	182.328.204	.car	win32	1	1-Mar-2003	Israel	BWT + ARI + PPM-II + filter	11,16
	Packet 1.1 -h4 -b512 -mx	297.838.031	38.728.339	215.148.334	.packet	win32	1	7-Dec-2013	Italy	LZ77 + Fast CM	0,39
42	FLASHZIP 1.1.3 (2013)	288.721.818	38.740.607	210.064.678	.flz	win32	1	5-Aug-2013	Italy	ROLZ + ARI	0,73
	FLASHZIP 1.1.0 (2012)	288.721.818	38.740.447	210.064.678	.flz	win32	1	3-Dec-2012	Italy	ROLZ + ARI	1,40
44	UHARC 0.6b -m3 -mm+ -md+ 32 MB	292.738.127	38.185.525	218.104.700	.uha	win32	1	6-Feb-2005	Germany	ALZ3 291 MB	9,23
	STUFFIT 14.0.1.27 (2010) bit-perfect	344.467.525	39.655.270	200.157.791	.sitx	win64	8	8-Feb-2010	United States	LZARI 5:28 / PPM 16:30	4,22
46	MComp 2.00 -mf3x 600m (2008)	343.864.694	33.861.762	179.927.192	.mcomp	win64	1	23-Aug-2008	New Zealand	ROLZ-3	5,68
	WinRar 4.20 solid best force PPMd	319.664.733	38.238.952	192.946.122	.rar	win64	1	9-Jun-2012	Russia	PPM-II o9-128M + filter	1,88
48	BSC 3.1.0 -b1024r -m0 -e2	324.642.920	38.190.522	167.869.306	.bsc	win64	8	8-Jul-2012	Russia	BWT + libdifsufsort + QLFC + CM + filter	1,80
	BSC 3.1.0 -b1024rsca -m0 -e2	324.577.856	38.261.586	172.050.326	.bsc	win64	8	8-Jul-2012	Russia	BWT + libdifsufsort + OLFC + CM + filter	1,80
50	TC 5.2 Dev 2 (2007)	316.902.047	36.384.661	185.618.928	.tc	win32	1	5-Feb-2007	Russia	Fast PAQ Weighting	7,23
	PPMonstr ver I (2002) -o16 -m800	318.828.729	33.346.449	158.192.202	.pmm	win32	1	30-Apr-2002	Russia	PPM-II	11,99
52	BSC 3.1.0 -b1024rsca -m0 -H28 -M255	324.387.750	38.202.132	172.066.806	.bsc	win64	8	8-Jul-2012	Russia	LZP+BWT+libdifsufsort+QLFC + CM + filter	1,80
	Blizzard 0.24 300m ('08)	306.869.116	38.309.760	171.545.984	.bliz	win32	1	30-Jun-2008	Germany	BWT + filterCM	5,83
54	LZPXJ 1.2h opt. 9 (2007)	323.753.445	37.803.252	204.385.085	.lzpxj	win32	1	7-Mar-2007	Russia	LZ + ARI	7,14
	CTXf 0.75 pre-b1 (2003) -me -b	311.183.180	37.513.145	198.221.614	.cxf	win32	1	27-Sep-2003	Belarus	PPM-II + filter	10,58
56	Blizzard 0.24 30m ('08)	300.975.553	38.031.300	186.228.420	.bliz	win32	1	30-Jun-2008	Germany	BWT + filterCM	5,83
	WinRar 4.20 solid best auto filter	321.392.802	38.231.702	218.410.260	.rar	win64	8	3-May-2012	Russia	LZ77 + Huffman + PPM-II o9-128M	1,98
58	BEE 0.7.9 -m3 -d9	325.177.589	36.045.184	170.393.336	.bee	win32	1	23-Sep-2005	Russia	PPM	8,59
	DGCA 1.00 - 1.10e ('04-'06)	297.893.488	39.694.096	210.053.344	.dgc	win32	1	1-Aug-2004	Japan	BWT + ARI	9,74
60	YZX 0.11 -r -s -m9 -b8 -h5	301.389.949	40.203.453	213.795.355	.yzx	win32	1	4-Jan-2012	Italy	LZKS	2,31
	PeaZip 3.3 .7z ultra + adv filters	366.073.941	36.178.823	179.928.850	.7z	win64	2	14-Sep-2010	Russia	LZMA:128; PPMD:1536 o10	3,62
62	BCM 0.14 (2013) c1000	308.769.405	39.017.441	169.142.589	.bcm	win32	1	23-Jun-2013	Russia	BWT + CM	0,84
	LZMA SDK 9.20 + LZMAREC	361.554.908	35.717.780	196.089.049	.lzma	win32	1	28-Dec-2010	Russia	LZMA with better entropy coding	3,33
64	BBB 1.0 cm100 (2006)	303.250.005	38.867.037	176.930.184	.bbb	win32	1	31-Aug-2006	United States	BWT	7,66
	M03 1.1 blocksize 1GB	319.356.247	37.819.153	167.169.555	.m03	win32	1	24-Oct-2011	United States	BWT	2,51
66	PPMd Jr1 sh8 -o16 -m1600 -c	336.818.689	37.054.168	175.321.640	.pmd	win32	1	9-Dec-2008	Russia	PPM-II (o16, m1600)	5,38
	Durilca'light 0.5 -m800 -o32	331.538.623	36.285.821	175.973.254	.dul	win32	1	1-Apr-2006	Russia	PPM-II + filter	8,07
68	M03 0.2 α (2009) 250 MB	318.653.295	37.884.010	171.677.206	.m03	win32	1	11-Oct-2009	United States	BWT	4,54
	MComp 2.00 -mw -M400m (2008)	310.736.978	39.029.557	175.148.453	.mcomp	win64	1	23-Aug-2008	New Zealand	Experimental BWT 2000 MB	5,68
70	BCM 0.12 -b100 (2010)	304.919.660	38.994.819	171.873.993	.bcm	win32	1	31-Oct-2010	Russia	BWT + CM	3,49
	LZHAM α7r1 -m4 -d29 -e -x	357.793.035	37.325.895	192.771.132	.lzham	win64	8	15-Dec-2011	Russia & United States	LZ + Huffman + ARI + MARKOV	2,37
72	CSC 3.2 final (2011) -m3 -d512 -r	332.646.388	41.620.483	235.589.271	.csc3	win32	1	18-Aug-2011	China	LZ77 + ARI + filters	2,69
	LZHAM α6 -m4 -d29 -e -x	357.894.064	37.338.554	192.697.401	.lzham	win64	8	10-Jan-2011	Russia & United States	LZ + Huffman + ARI + MARKOV	3,30
74	Distance Coder 1.24 -b16300el	313.543.103	40.462.792	195.272.402	.dc	win32	1	12-Apr-2000	Germany	BWT + ARI + Distance Coding	14,04
	WinRar 5.0 solid best 1024MB	346.631.781	39.601.660	218.721.519	.rar	win64	8	22-Aug-2013	Russia	LZ77 + Huffman + filter	0,68
76	Free Zip Archiver 2.0.1.2 max	365.813.900	36.820.961	202.974.954	.7z	win32	2	6-Mar-2012	United States	LZMA + filter	2,14
	UHBC 1.0 ('03) -b128m -m3	311.046.550	38.464.708	187.992.164	.uhbc	dos16	1	30-Jun-2003	Germany	BWT + WFC + MTF	10,83
78	M03 (2005) 32 MB	317.729.374	38.146.497	182.664.270	.m03	win32	1	15-Feb-2005	United States	BWT	9,20
	LZMA SDK 9.20 (2010) -d27 -fb273	366.175.283	36.216.616	197.679.384	.lzma	win32	2	18-Nov-2010	Russia	LZMA 9.20	3,44
80	KuaiZip 2.3.2 (2011) best solid	365.718.716	37.001.167	202.974.906	.kz	win32	1	22-Sep-2011	China	LZMA (?)	2,60
	SMAC 1.20 (2014)	346.571.229	37.057.356	184.851.016	.sma	win32	1	2-Jan-2014	France	Fast CM	0,32
82	NanoZip 0.09 -cDP 2GB ('11)	288.783.661	44.067.167	264.844.379	.nz	win64	4	4-Nov-2011	Finland	LZHDS + filter	2,48
	SMAC 1.19 (2013)	346.818.917	37.158.994	185.164.440	.sma	win32	1	13-Dec-2013	France	Fast CM	0,37
84	SMAC 1.18 (2013)	346.818.505	37.159.116	185.164.417	.sma	win32	1	7-Dec-2013	France	Fast CM	0,39
	WinZip 18.0 ZIPX best method	351.596.474	51.599.189	202.715.769	.zipx	win64	8	23-Oct-2013	United States	LZH + BZ2 + LZMA + LZMA2 + PPMd + WV + JPEG	0,51
86	UHARC 0.2 (1997) -m3 -md2048 -mm+	294.683.992	41.208.512	251.404.151	.uha	dos16	1	21-Dec-1997	Germany	ALZ3 (?)	16,35
	BSSC 0.95α -b16383as	322.682.944	39.476.848	199.433.478	.bssc	win32	1	12-Mar-2005	Russia	BWT + DCE + filter	9,13
88	Power Archiver 13.02.04 7z opt.ultra solid	366.031.819	36.829.715	196.472.264	.7z	win32	2	24-Sep-2012	United States	LZMA / PPMd	1,59
	XZ 5.1.3 alpha -9 -e -T0 (2013)	366.198.176	36.621.412	203.103.192	.xz	win64	8	25-Nov-2013	Finland	LZMA2 + filter	0,42
90	WinAce 2.5 - 2.69 max solid + f.	300.556.906	41.761.190	248.471.149	.ace	win32	1	28-Feb-2005	Germany	LZ77 + Huffman + filter	9,16
	PPMVC 1.2 -o8 -m256	339.815.777	38.169.677	189.600.577	.pmv	win32	1	11-Jan-2007	Russia / Poland	PPM-II + VARIable Context	7,29
92	TC 5.1 Dev. 7x (512 MB)	338.880.556	37.469.753	224.269.866	.tc	win32	1	3-Jan-2007	Russia	LZ with 512 MB dictionary	7,32
	LZIP 1.11 -9 (2010)	367.325.538	36.824.254	206.805.927	.lz	win32	2	26-Sep-2010	- unknown -	LZMA	3,59
94	RINGS 2.0 -s -r -m7 (2013)	297.851.879	53.443.936	175.365.258	.zpaq	win32	1	11-Jul-2013	Italy	BWT + ARI	0,79
	WinZip 16.0 - 17.5 .ZIPX	351.595.430	51.171.467	202.715.409	.zipx	win64	8	17-Apr-2012	United States	LZH + BZ2 + LZMA + LZMA2 + PPMd + WV + JPEG	2,03
96	M03 (2005) 8 MB	319.694.127	38.142.148	195.745.327	.m03	win32	1	28-Jan-2005	United States	BWT	9,25
	BALZ 1.11 Mode ex (2008)	352.840.233	37.346.605	217.554.463	.balz	win32	1	29-May-2008	Russia	LZ77 (greedy parsing)	5,91
98	WinRar 4.20 solid best no PPMd	321.674.370	41.152.941	248.944.093	.rar	win64	8	3-May-2012	Russia	LZ77 + Huffman + filter	1,98
	OLFC 6.6w (blocksize 200 MB)	324.433.275	40.260.049	180.487.530	.qq	win32	1	7-Feb-2001	Romania	BWT + ARI	13,22
100	WinZip 12.0.8252 optimize best	351.717.891	51.958.902	202.715.769	.zip	win32	1	10-Sep-2008	United States	LZH + SF + BWT + LZMA + PPMd	5,63
	PPMonstr ver G -o16 -m256 ('00)	337.025.048	37.014.952	188.392.580	.pmm	win32	1	26-Nov-2000	Russia	PPM-II	13,42
102	B1 Free Archiver 1.4.67 (2013) ultra	366.470.831	37.296.432	211.635.644	.b1	win32	2	11-Oct-2013	United States	LZMA	0,54
	BWCM c128 (2013)	308.917.391	41.458.908	182.732.499	.bwcm	win32	2	2-Dec-2013	United States	LZP + BWT + CM	0,40
104	Squeez 4.20.440 ('03) 4MB max + filter	366.830.143	43.625.375	237.630.152	.sqx	win32	1	23-Jul-2003	Germany	LZ + filters	10,76
	DARK 0.46 -b128mf1s2 (2006)	326.389.070	40.156.755	180.460.007	.dark	win32	1	23-Aug-2006	Russia	BWT + Distance Coding	7,68
106	BMA 1.35 -m64m -mx -ax	325.952.081	54.653.845	191.082.735	.bma	win32	1	19-Jun-2008	Russia	BWT + MTF + RLE + ARI	5,86
	M99 128 MB -m ('07)	326.725.230	41.197.626	178.185.035	.m99	win32	1	27-Mar-2007	United States	BWT + MSufSort3.1 + ARI	7,08
108	ALZIP 8.5 .EGG solid, p. on ratio	366.440.403	39.225.968	215.667.154	.egg	win32	1	7-Oct-2010	Korea	LZMA ?	3,56
	M99 32 MB -m ('07)	324.381.207	41.294.540	188.852.254	.m99	win32	1	27-Mar-2007	United States	BTW + MSufSort3.1 + ARI	7,08
110	YBS 0.03f -m16m	321.867.467	39.994.251	194.413.052	.ybs	win32	1	22-Sep-2002	Russia	BWT + Distance Coding	11,60
	DARK 0.50 -b200ms (2006)	321.144.028	42.873.280	195.580.747	.dark	win32	1	8-Oct-2006	Russia	BWT + Distance Coding	7,55
112	ABC 2.4 (2003) -c	323.092.232	40.252.099	206.175.132	.abc	win32	1	12-Oct-2003	Germany	BWT + MTF, SiF, AWFC	10,54
	MComp 2.00 -mc -M512m (2008)	331.444.892	41.160.241	209.600.275	.mcomp	win64	1	23-Aug-2008	New Zealand	experimental DMC	5,68
114	PIM 2.90 (Best) (2009)	344.731.724	49.767.293	203.090.900	.pim	win32	1	1-Jan-2009	Russia	PPM + filters	5,32
	RINGS 1.5 opt. 9 ('08)	324.974.451	43.596.595	191.679.072	.rings	win32	1	21-Apr-2008	Italy	Fast BWT+MTF+Pre-HUF+ARI	6,02
116	PIM 2.50 (Best) (2008)	346.090.379	49.775.490	203.090.900	.pim	win32	1	22-Jul-2008	Russia	PPMd + filter	5,76
	WinZip 11.0 - 11.1 optimize best	345.595.489	51.207.954	203.200.393	.zip	win32	1	18-Oct-2006	United States	LZH + SF + BWT + PPMd	7,53
118	DZO Compressor 0.1.1 beta	370.691.482	39.820.387	222.285.703	.dzo	win32	2	28-Jun-2012	India	deduplication + LZMA	1,83
	Stuffit 8.0-8.5 (sitx)	365.991.876	40.288.195	216.587.257	.sitx	win32	1	1-Jan-2003	United States	BWT, LZ + ARI, PPM + filter	11,32
120	CM0 (2013)	337.849.662	41.114.563	203.670.982	.cm0	win32	2	4-Dec-2013	United States	Fast CM	0,40
	CBT 1.072 ß 26 Mode 4, solid	347.307.421	39.743.605	206.679.277	.cbt	win32	1	11-Mar-2004	Japan	LZ 77 + BWT	10,13
122	WinArchiver 3.1 (2013) .MZP best	368.630.301	39.668.539	238.368.426	.mzp	win32	1	18-Jun-2013	United States	LZMA	0,86
	ICT Universal Coder 2.1 ('99)	331.332.413	41.531.113	207.696.047	.ict	win32	1	16-Dec-1999	United States	PPM	14,36
124	CM0_EXT (2013)	343.824.190	41.119.319	189.676.585	.cm0ext	win32	2	4-Dec-2013	United States	Fast CM	0,40
	HOOK 1.4 ('09) 912 MB	340.024.410	41.936.353	209.242.446	.hook	win32	1	29-Apr-2009	Italy	ADMC + filter	4,99
126	WinRar 2.90 Final (2001)	308.708.335	43.915.643	262.946.271	.rar	win32	1	1-Oct-2001	Russia	LZ77 + Huffman	12,57
	BMA 1.33 -m16m -a (2006)	330.089.323	55.086.364	208.335.680	.bma	win32	1	19-Aug-2006	Russia	BWT + MTF + RLE + ARI	7,69
128	LZPM 0.16 mode ex (2008)	378.820.758	39.025.872	228.290.688	.lzpm	win32	1	14-Nov-2008	Russia	LZ77 with 8 MB dictionary	5,45
	COMPROX 0.11.0 ('12) -b200 -F -f	396.290.778	40.117.844	207.174.573	.comprox	win32	2	18-Dec-2012	China	LZ77 + ARI	1,36
130	4x4 0.2 Option 9 (2008)	369.181.487	39.307.816	244.203.549	.4	win32	4	13-Apr-2008	Russia	LZMA	6,04
	PPMNKM 1.00b1+ -M:50 -MT1	370.821.320	38.854.482	214.663.204	.ppmnkm	win32	1	10-Aug-2002	Russia	PPM	11,71
132	QC 0.50 (2006) e -8	343.944.646	39.507.499	222.572.448	.qc	win32	1	17-Sep-2006	Russia	LZ + PPM	7,61
	BioArchiver 1.9 hyper, automatic	367.267.801	41.905.788	200.324.625	.bio	win32	1	7-Oct-2001	United States	LZ + PPM	12,56
134	B1 Free Archiver 1.4.67 (2013) smart	366.782.307	39.783.290	225.788.556	.b1	win32	2	11-Oct-2013	United States	LZMA	0,54
	LZPM 0.11 (02.09.07) -9	378.438.292	38.779.655	218.313.307	.lzpm	win32	1	2-Sep-2007	Russia	LZ77 + PPM	6,65
136	TarsaLZP Interim (21.08.07)	363.360.613	42.566.306	209.645.440	.tzr	win32	1	21-Aug-2007	Poland	order-3 LZP + order-2 PPM	6,68
	Packet 1.0 -s -r -mx6	351.050.107	44.197.176	240.966.863	.packet	win32	1	4-Aug-2013	Italy	LZ77 + Huffman + filter	0,73
138	BALZ 1.15 Mode ex (2008)	374.473.809	38.914.555	233.336.593	.balz	win64	1	8-Jul-2008	Russia	LZ77 (greedy parsing)	5,80
	ZZIP 0.36 -56m -mm -mx	316.830.908	54.023.607	202.807.804	.zz	win32	1	14-Nov-2002	France	BWT	11,45
140	COMPROLZ 0.10.0 -b250 -F -f	390.529.976	40.415.543	207.170.626	.comprolz	win32	2	17-Dec-2012	China	LZ77 + ARI	1,36
	PAQ 1 / KGB Archiver (2002)	345.728.180	41.450.794	202.348.850	.paq1	win32	1	22-Jan-2002	United States	Predictive arithmetic Coding	12,26
142	FBC 1.0 300MB blocksize	339.035.221	42.970.451	188.782.715	.fbc	win32	1	29-Feb-2012	Canada + Russia	BWT (DifSufSort Lite) + ARI	2,16
	CTXf 0.69 ('03) (Superb) -me -b	310.995.994	37.513.145	223.904.096	.cxf	win32	1	12-Mar-2003	Belarus	PPM-II + filter	11,13
144	Stuffit 9.0 - 9.5/10 arsenic (sitx)	359.126.052	37.202.616	217.629.314	.sitx	win32	1	28-Mar-2005	United States	ATOM™ (arsenic)	9,08
	SZIP 1.12a -b41 -o50	336.655.210	41.283.298	219.783.245	.sz	win32	1	3-Mar-2000	Austria	BWT (ST6)	14,15
146	TC 5.1 Dev 6 (2006)	338.963.036	38.706.701	230.731.198	.tc	win32	1	21-Nov-2006	Russia	LZ + CM	7,43
	CMM 17.09.2007	355.077.076	40.147.922	209.938.100	.cmm	win32	1	17-Sep-2007	Germany	Context Mixing	6,61
148	RZIP 2.1 -9 -L9 (2006)	353.559.564	40.773.343	235.134.104	.rz	win32	1	4-Dec-2006	United States	BWT + filter	7,40
	SZIP 1.12a -b41 -o10	336.738.043	42.120.765	220.140.448	.sz	win32	1	3-Mar-2000	Austria	BWT (ST6)	14,15
150	PIM 2.01 (PPMd) (2007)	346.090.379	49.784.479	203.090.900	.pim	win32	1	14-Jun-2007	Russia	PPMd + filter	6,87
	UFA 0.04 β 1 -mx -mu32 -s -mg	375.101.598	40.194.727	249.399.841	.ufa	win32	1	1-Mar-1998	Russia	LZ77 + ARI + filter	16,16
152	GRZIP-II 0.2.4 -b8m -l -m4	329.115.175	43.421.921	231.513.058	.grz	win32	1	12-Feb-2004	Russia	LZP + BWT + AWFC + MTF + ARI	10,21
	Disintegrator 0.9b -mg -4 c ('98)	403.704.171	43.088.775	226.317.389	.dst	win32	1	23-May-1998	Italy	LZ77 + PPM + DHUF	15,93
154	ECP 0.e.s. (2000) -b127	342.462.021	42.696.633	217.369.080	.ecp	win32	1	18-Aug-2000	Russia	LZP + BWT + MTF + ARI	13,69
	BruteCM 0.1c (2008)	342.211.788	42.130.986	218.846.099	.bcm	win32	1	29-Feb-2008	Taiwan	Context Mixing	6,16
156	PreComp 0.4.3	354.012.393	44.537.348	244.389.366	.pcf	win32	1	1-Sep-2012	Germany	lzw/zlib/jpeg recompressor + bzip2	1,66
	PPMX 0.08 (2012)	384.428.359	42.842.857	208.583.207	.ppmx	win32	1	1-Jan-2012	Russia	PPMX	2,32
158	M99 2.2.1 -m 128m	311.474.285	57.000.521	178.185.035	.m99	win32	1	17-Jul-2008	United States	BWT + MSufSort3.1 + ARI	5,78
	Tornado 0.5 (fsbench) -11	430.726.087	41.730.836	230.205.985	.tor	win32	1	unknown	Russia	LZ + ARI	######
160	WinIMP 1.2 max Alg. 1/2, 1020, 16mb	353.434.522	46.968.355	247.354.226	.imp	win32	1	13-Jun-2002	Australia	LZ77 + BWT	11,87
	QUAD 1.12 Final -x (2007)	375.780.413	41.277.843	244.639.021	.quad	win32	1	7-Apr-2007	Russia	filter + LZ + PPM (ROLZ)	7,06
162	TinyCM 0.2 option 8 (2012)	355.771.296	44.865.372	223.246.172	.tinycm	win32	1	13-Oct-2012	Canada	order 1-2-3-6 context mixing	1,54
	7-ZIP 2.3 β 28 solid max (2003)	366.121.355	53.677.513	224.464.582	.7z	win32	1	15-Feb-2003	Russia	LZMA PPMD	11,20
164	FreeHOOK 0.2 option c 912-2-1-6	364.732.516	43.173.815	221.543.869	.hook	win32	1	7-Apr-2007	Italia / United States	LZP + DMC + filter	7,06
	Chile 0.3d (2005) -c -v=2 -b=2048	344.544.403	42.286.988	235.936.103	.chile	win32	1	13-Nov-2005	Romania	BWT + filter	8,46
166	M99 2.2.1 -m 32m	313.902.785	57.000.521	188.852.254	.m99	win32	1	17-Jul-2008	United States	BWT + MSufSort3.1 + ARI	5,78
	COMPROLZ 0.1.0 -b256 (2012)	384.531.089	41.063.234	218.838.927	.comprolz	win32	2	7-Oct-2012	China	ROLZ + ARI	1,56
168	WinTurtle 1.6.0 (2008)	365.008.774	44.959.664	243.161.834	.tur	win32	1	1-Jan-2008	Italy	FPPM, 512 MB buffer, solid	6,32
	PPMX 0.07 (2011)	381.166.142	44.562.877	216.863.053	.ppmx	win32	1	20-Feb-2011	Russia	order-5 PPM	3,19
170	CAB (LZX21 max)	402.468.499	40.793.090	242.351.676	.cab	win32	1	1-Jan-2000	United States	LZX + Huffman + Shannon-Fano	14,32
	Transform 1.02 (maximum)	351.560.742	43.248.341	224.368.029	.tfm	win32	1	12-Nov-2002	- unknown -	Huffman + BWT + MFT + RLE	11,46
172	CM1 (2013)	359.724.248	43.937.035	234.621.686	.cm1	win32	2	9-Dec-2013	United States	Fast CM	0,38
	WinTurtle 1.4.0 (2007)	363.911.429	44.561.793	238.447.455	.tur	win32	1	5-Nov-2007	Italy	FPPM, 512 MB buffer, solid	6,48
174	WinRar 5.0 non-solid best 1024MB	344.720.135	57.387.103	232.998.397	.rar	win64	8	22-Aug-2013	Russia	LZ77 + Huffman + filter	0,68
	WinZip 17.0.10381 PPMd	345.595.121	51.771.948	203.200.439	.zipx	win32	1	24-Dec-2011	United States	LZH + SF + BWT + PPMd	2,34
176	BIX 1.00 β7 -s -m1 -mdg ('99)	402.142.662	42.419.792	237.356.450	.bix	win32	1	27-Oct-1999	Russia	LZ + ARI + PPM	14,50
	Tornado 0.4 -12 (2008)	435.507.523	42.056.335	248.037.330	.tor	win32	1	8-Apr-2008	Russia	LZ + ARI	6,05
178	LZXQ 0.3 (2007)	359.619.434	44.674.648	225.006.312	.lzxq	win32	1	27-Jan-2008	Taiwan	LZP + order 4-2-1 ARI	6,25
	BWTZIP 1.0 ('03)	339.279.238	42.903.597	221.746.547	.bwtzip	win32	1	7-Mar-2003	- unknown -	BWT + MTF-2 + ZLE + Huffman	11,14
180	PreComp 0.4.2	354.012.394	44.552.834	244.389.367	.pcf	win32	1	25-Sep-2011	Germany	lzw/zlib/jpeg recompressor + bzip2	2,59
	PIM 1.25 (2006)	395.849.455	49.643.968	236.538.947	.pim	win32	1	25-Sep-2006	Russia	LZP + PPM	7,59
182	iTarsaLZP (2012)	365.060.336	46.447.306	206.667.389	.tlzp	JAVA	1	7-Sep-2012	Poland	order-3 LZP + order-2 PPM	1,64
	COMPROX 0.1.1 (10.2011) opt.9	388.134.609	43.103.900	240.395.128	.cox	win32	2	9-Oct-2011	China	LZSS + ARI	2,55
184	Arhangel 1.40	307.384.341	53.043.903	268.699.942	.lg	dos16	1	18-Jan-2000	Ukraine	RLE + LZ / PPM + ARI; BMC	14,28
	BWC 0.99d	349.134.139	44.115.094	243.749.097	.bc	win32	1	9-Mar-2009	Netherlands	BWT	5,13
186	ICE-OWS max (2002)	352.490.321	52.004.680	214.993.717	.ice	win32	1	19-Jan-2003	France	LZ + PPM II	11,27
	CROOK 0.1 -m1600 -O7	347.931.011	47.215.863	216.068.080	.crook	win32	1	9-Mar-2012	Estonia	bit-level PPM	2,13
188	12Ghosts 7.0 - 9.7 (ZIP2)	354.067.630	44.521.755	244.109.443	.exe	win32	1	2-Feb-2005	United States	BWT	9,24
	DACT 0.8.39 (2004)	354.494.617	44.566.072	245.413.944	.dact	win32	1	29-Mar-2004	United States	RLE + LZO + ZLIB + BWT	10,08
190	EXP1 Experimental Archiver 1.0	354.056.112	44.484.142	244.387.066	.exp	win32	1	25-Feb-1998	Russia	BZIP2 (BWT)	16,17
	BZIP2 1.06 (2010) --best	354.012.758	44.530.651	244.385.524	.bz2	win32	1	17-Mar-2008	- unknown -	BWT, 900kb blocks	6,11
192	PBZIP2 1.1.7 -p8 -9	353.920.282	44.588.080	244.485.873	.bz2	win32	8	11-Dec-2011	United States	Parallel BWT, 900kb blocks	2,38
	LBZIP2 0.23 -9 (2011)	353.929.880	44.593.389	244.481.290	.bz2	win32	8	3-Mar-2010	Hungary	Parallel BWT, 900kb blocks	4,15
194	XTREME 1.06 -m0 -s -t8 ('99)	402.441.466	41.973.963	255.260.518	.xtreme	win32	1	26-Apr-1999	- unknown -	LZ77 + Huffman	15,00
	CSC3 CountrySideCompressor -9	405.192.167	42.347.894	270.417.982	.csc3	win32	1	11-Aug-2009	China	LZ77 + ARI + filters	4,71
196	iROLZ (2010)	380.220.211	44.141.947	264.149.135	.irolz	win32	1	4-Nov-2010	unknown	ROLZ	3,48
	LZSR 0.01 (2011)	373.361.345	43.118.589	271.993.931	.lzsr	win32	1	1-Oct-2011	Italia	LZP-LZ77 + SR	2,57
198	COMPROX 0.2.0 (2011) opt.9	369.473.789	43.061.571	235.687.368	.comprox	win32	2	16-Oct-2011	China	LZSS + ARI	2,53
	Urban Compressor ('91)	345.297.100	48.101.506	242.196.332	.urb	dos16	1	30-Apr-1991	Sweden	(?)	22,99
200	TarsaLZP (04.08.2007)	365.375.109	45.421.692	210.125.221	.tzr	win32	1	4-Aug-2007	Poland	order-3 LZP + order-2 PPM	6,73
	WinHKI 1.3 - 1.79 hki1 (04-06)	354.881.146	44.921.862	246.317.161	.hki	win32	1	17-Oct-2005	Germany	HKI	8,53
202	ASD 0.2.0 -m5 -mdh (1998)	424.366.200	42.629.277	257.386.209	.asd	win32	1	12-Nov-1998	Sweden	LZ77	15,46
	LZAP 0.20.0 beta (1998)	354.450.063	49.494.548	249.180.676	.lza	dos16	1	25-May-1998	- unknown -	Dynamic Markov Comp.	15,92
204	Stuffit 7.0-7.5 (2002)	356.262.847	45.652.966	249.737.668	.sit	win32	1	25-Mar-2002	United States	LZ	12,09
	RAR 2.00 (1996) -m5 -md1024 -mm -s	311.642.188	51.969.434	306.134.053	.rar	dos16	1	24-May-1996	Russia	LZ77 + Huffman	17,93
206	RAR 2.50 (1996) -m5 -md1024 -mm -s	311.642.188	51.975.848	306.134.053	.rar	dos16	1	24-May-1996	Russia	LZ77 + Huffman	17,93
	FPAQ S06 (2006)	366.717.383	47.588.867	254.714.562	.fpaq	win32	1	30-Oct-2006	Italy	LZP + PPM + OX	7,49
208	XP v5 c2 (2010) ppmcontext	392.180.595	44.723.095	252.179.016	.xp	win32	1	30-Nov-2010	- unknown -	ROLZ	3,41
	LZPXJ 1.0e (2006)	389.356.487	44.425.656	275.454.598	.lzpxj	win32	1	16-Jan-2006	Russia	LZ + ARI	8,28
210	BGB-LZ2A	415.401.524	43.696.731	253.438.399	.lz2a	win32	1	1-Jun-2005	- unknown -	LZ77 + ARI	8,91
	Compress 1.22 (max)	353.509.986	55.524.899	244.341.547	.pak	win32	1	22-Mar-1998	Belgium	BWT	16,10
212	Archiver 0.2 CM2 (2014)	368.058.188	53.793.381	236.441.474	.parc	win32	2	7-Jan-2014	United States	Fast CM	0,31
	P12 Neural Network	349.022.585	52.523.642	235.718.663	.p12	win32	1	13-May-2000	United States	Neural Network	13,96
214	SR3 (2007)	391.552.435	48.644.444	251.087.995	.sr3	win32	1	27-Oct-2007	U.S.A. / Italy	Symbol Ranking + filters	6,50
	PAR 2.00 build 61 (2001)	353.496.309	56.374.428	244.342.021	.par	win32	1	28-Jan-2001	Belgium	BWT + Huffman	13,25
216	TarsaLZP (2007)	368.901.521	56.520.435	210.125.221	.tzr	win32	1	6-May-2007	Poland	order-3 LZP + order-2 PPM	6,98
	WinZip 17.0.10381 bzip2	353.509.327	57.700.074	244.341.849	.zipx	win32	1	24-Dec-2011	United States	LZ + Huffman + SF + BWT	2,34
218	LZPX 1.5b (2005)	392.064.549	45.641.300	276.124.207	.lzpx	win32	1	16-Nov-2005	Russia	LZ + ARI + PPM	8,45
	Tornado 0.3 default (2008)	441.775.430	47.566.239	300.115.499	.tor	win32	1	2-Apr-2008	Russia	LZ + ARI	6,07
220	SR2 v2 (2008)	389.931.824	50.752.127	269.646.169	.sr2v2	win32	1	1-Jan-2008	Poland	Symbol Ranking	6,32
	FCM3-RC (2008)	371.594.131	52.384.907	287.835.697	.fcm	win32	1	18-Jun-2008	Russia	Fast CM	5,86
222	BZP 0.3 (2008)	390.370.758	50.356.677	284.875.451	.bzp	win32	1	28-Sep-2008	Italia	LZ + ARI	5,58
	SLUG X (2009)	404.632.368	46.880.770	288.321.827	.sx	win32	1	13-Jan-2009	Germany	RHSO-LZ	5,29
224	RH4 (2014)	440.352.548	45.169.759	271.680.632	.rh4	win64	1	18-Feb-2014	United States	ROLZ + Huffman	0,19
	WinAce 1.2 (1999) max 1024k	435.273.450	46.774.447	291.792.623	.ace	win32	1	22-Dec-1999	Germany	LZ77 + Huffman	14,35
226	X1 0.95 β (aum4l3d9)	354.961.760	55.851.851	253.911.382	.x	win32	1	3-May-1997	Danmark	LZ77 + BW5 + PPMZ	16,98
	ACE-ARCHIVER 1.2 (maximum)	435.272.370	48.497.803	291.794.075	.ace	dos16	1	1-Jul-1998	Germany	LZ77	15,82
228	4x4 0.2 Option 5 (2008)	439.654.316	47.893.821	301.908.457	.4	win32	4	13-Apr-2008	Russia	LZMA	6,04
	UC II r3 Pro ('95) stst	356.461.434	52.740.720	310.403.084	.uc2	dos16	1	1-Jun-1995	Netherlands	LZ77 + Huffman + filter	18,91
230	HA 0.999b (1995) a21r	398.305.266	55.378.737	275.873.372	.ha	win32	1	12-Jan-1995	Finland	LZ77 + Huffman / PPMC order-4	19,29
	SEMONE 0.6b2 -mb/mm3	345.286.247	52.555.563	307.212.064	.one	dos16	1	30-Jul-1999	Russia	LZ + Huffman + filter	14,74