Squeeze Chart 2014

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)

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

http://tol.sourceforge.io/index.php/News
http://mattmahoney.net/dc/text.html

http://ftp.sac.sk/sac/pack/
ftp://ftp.sac.sk/pub/sac/pack

		TEST DATA -->			enwik9	AOA1.bmp	CAMERA.RAW	GUITAR.BMP	INSTR.BMP	MARBLES.BMP	PEPPER.BMP	SCANS.tar	usual file extension	OS Name	compression		when released / developed	where developed (country)	algorithm used	program age is in years
		BEST Bite Per Byte value ->	weighted average	encoding time in seconds	decoding time in seconds	1.6689	4.5337	6.1908	3.0112	6.4958	7.3490	3.3703	1.2263	1.1948	usual file extension	bit depth	cross platform				
		BEST ratio ->				20.8394%	66.6710%	77.3857%	37.8405%	81.1945%	91.8920%	42.1287%	15.3160%	14.9354%							
		UNCOMPRESSED SIZE	315.17969			327,811,342	968,851,462	1,197,635,084	369,240,463	802,116,096	1,128,063,446	530,481,444	200,000,000	1,000,000,000							
1	GUI	NanoZip 0.08 -cc -m2g ('10) Sami Runsas	105,00608	6.933	6.718	66,726,814	344,830,061	454,178,452	271,181,957	572,480,489	478,680,399	273,861,871	91,341,330	150,005,854	.nz	win64	1	3-Jun-2010	Finland	Fast CM + filter	3.90
2	GUI	NanoZip 0.09 -cc -m2g ('11) Sami Runsas	106,11348	6.687	6.653	66,609,826	344,830,936	454,082,648	273,946,098	572,487,400	478,616,331	273,848,831	91,322,980	149,760,793	.nz	win64	4	4-Nov-2011	Finland	Fast CM + filter	2.48
3		ZCM 0.88 -m7 -r -s (2013) Francesco Nania	106,72,875	1.752		75,418,505	386,194,956	463,206,174	286,836,300	574,462,060	483,720,771	284,529,920	93,321,914	154,973,392	.zcm	win32	1	1-Jun-2013	Italy	Fast CM + filter	0.85
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	286,836,300	574,059,514	484,204,751	284,775,485	93,915,597	166,349,880	.zcm	win32	1	16-Oct-2012	Italy	Fast CM + filter	1.53
5		ZCM 0.60d -m7 -r -s (2012) Francesco Nania	109,90809	2.278	1.988	75,266,560	386,587,597	479,334,429	292,250,083	574,089,434	485,947,409	286,208,815	93,841,222	164,815,296	.zcm	win32	1	11-Sep-2012	Italy	Fast CM + filter	1.63
6	GUI	Precomp 0.4.3 + FreeArc 0.67 (2013) Bulat Ziganshin	82,26,277	2.772		66,904,203	361,107,079	434,886,247	280,060,543	574,428,557	485,870,996	284,459,585	94,324,432	184,976,713	.pcf	win32	1	12-Dec-2012	Russia	Dedup. + LZMA + PPMd + GRZip + TTA	1.30
7		ZCM 0.50 -m7 -r -s (2012) Francesco Nania	110,36363	2.151	2.290	75,468,211	387,303,577	484,866,207	295,203,523	577,288,969	484,732,964	274,063,006	93,687,899	163,874,712	.zcm	win32	1	2-Jun-2012	Italy	Fast CM	1.90
8		ZPAQ 6.23 -method 71 (2013) Matt Mahoney	110,42622	14.814		70,960,268	425,179,239	447,489,522	281,886,218	576,298,915	490,915,794	286,018,404	90,832,248	163,877,859	.zpaq	win64	8	25-Mar-2013	United States	Dedup. + Fast CM + filter	1.85
9		ZPAQ 6.33 -method 71 (2013) Matt Mahoney	111,11,750	11.750		71,166,662	425,204,029	447,489,522	281,886,218	576,298,915	490,922,979	286,018,404	91,300,272	164,071,392	.zpaq	win64	8	25-Mar-2013	United States	Dedup. + Fast CM + filter	1.85
10	GUI	NanoZip 0.09 -cO -m2g ('11) Sami Runsas	110,81308	2.791	1.284	77,381,984	346,114,616	469,040,251	302,565,445	572,140,371	484,239,749	276,707,145	95,424,470	172,140,357	.nz	win64	4	4-Nov-2011	Finland	BWT + LZT + filter	2.48
11		ZCM 0.40 -m7 -r -s (2012) Francesco Nania	110,91887	2.169	2.175	76,787,070	386,870,808	488,372,564	295,203,523	577,436,837	484,885,882	274,080,304	93,890,885	165,520,281	.zcm	win32	1	16-May-2012	Italy	Fast CM	1.95
12		ZPAQ 6.43 -method 61 (2013) Matt Mahoney	111,05,143			71,005,143	425,207,927	447,489,522	283,234,100	576,298,915	491,027,608	286,018,404	90,992,160	163,715,459	.zpaq	win64	8	25-Mar-2013	United States	Dedup. + Fast CM + filter	1.85
13	GUI	WinRK 3.1.2 (ROLZ3) ('06) Malcolm Taylor	111,10112	7.416	2.596	76,614,559	343,812,879	485,386,149	286,131,814	573,646,514	481,541,757	266,877,734	94,882,268	181,306,077	.rk	win64	4	1-Mar-2006	New Zealand	ROLZ-3 + PPM	8.16
14		CCMx 1.30c ost, 7 Christian Martelock	111,37362	2.760	2.850	78,398,914	391,996,413	466,979,717	299,869,520	577,169,132	484,547,738	286,593,161	92,892,892	167,908,122	.ccmx	win32	1	24-Apr-2008	Germany	Fast CM + filter	6.01
15	GUI	WinRK 3.1.2 (ROLZ2) ('06) Malcolm Taylor	111,42,689	7.054	2.446	79,404,688	346,765,924	487,170,447	287,650,467	574,970,096	483,568,020	267,770,355	95,368,020	182,992,160	.rk	win64	4	1-Mar-2006	New Zealand	ROLZ-2 + PPM	8.16
16		MCM 0.3 -9 (2013) Matthieu Chartier	112,00864	4.783		82,529,921	450,157,372	468,065,272	283,140,276	577,002,867	482,181,433	294,329,466	92,210,270	166,605,128	.mcm	win32	1	17-Jun-2013	Canada	Fast CM	0.86
17		MCM 0.4 -9 (2013) Matthieu Chartier	113,80849	4.707		83,602,512	451,091,291	462,617,872	286,044,317	578,346,989	482,882,407	295,921,407	92,983,399	168,018,013	.mcm	win32	1	23-Jul-2013	Canada	Fast CM	0.76
18	GUI	NanoZip 0.09 -co -m2g ('11) Sami Runsas	114,01,476	2.830	1.639	79,500,816	441,035,970	461,235,084	283,653,445	577,255,170	487,440,921	322,709,493	96,126,394	177,782,152	.nz	win64	4	4-Nov-2011	Finland	BWT + LZT + filter	2.48
19	GUI	FreeARC 0.67 (2012) ultra Bulat Ziganshin	113,98933	2.091		80,135,168	361,107,079	501,293,683	302,192,145	578,708,723	490,303,204	303,462,080	94,886,587	184,182,322	.arc	win32	2	12-Dec-2012	Russia	Dedup. + LZMA + PPMd + GRZip + TTA + delta	1.38
20		PAQ8jx -9 ('07) Matt Mahoney et al.	115,07239	15.702	16.591	79,385,262	454,055,569	467,918,937	280,386,891	574,254,311	481,186,044	294,809,748	91,283,844	169,187,846	.paq9a	win32	1	31-Dec-2007	United States	LZP + Fast CM	6.33
21		LPAQ9m -9 (2008) Matt Mahoney et al.	115,21,524	11.542	11.747	82,315,624	483,211,343	467,918,937	280,386,891	574,254,311	481,186,044	294,809,748	91,283,844	169,187,846	.lpaq9	win32	1	27-Apr-2008	USA + Russia	Fast CM + E8E9	5.19
22		LPAQ9i -9 (2008) Matt Mahoney et al.	114,49857	11.191	12.359	82,714,262	487,740,113	466,691,537	281,229,305	574,033,450	483,245,196	296,361,005	91,283,296	169,804,692	.lpaq9i	win32	1	27-Apr-2008	USA + Russia	Fast CM + E8E9	6.00
23		LPAQ7e -9 (2007) Matt Mahoney et al.	114,33924	11.071	11.481	82,483,736	504,932,570	464,854,078	278,351,498	574,136,654	481,980,883	298,708,197	91,158,260	169,172,451	.lpaq7e	win32	1	31-Oct-2007	USA + Russia	Fast CM + filter	6.49
24		LPAQ4e -9 (2007) Matt Mahoney et al.	114,34216	10.865	11.715	83,789,191	507,404,490	464,854,078	278,351,498	574,136,654	481,992,119	298,982,180	91,158,260	169,115,459	.lpaq4	win32	1	1-Oct-2007	USA + Russia	Fast CM + filter	6.49
25		TANGELO 2.0 (2013) Jan Ondrus	115,42619	19.933		78,906,065	451,394,450	488,617,128	288,474,516	576,488,437	481,671,721	291,703,582	91,314,871	164,118,727	.tan	win32	1	6-Jul-2013	Czech Republic	Fast CM	0.81
26	GUI	Precomp 0.4.3 + 7-ZIP 9.3.0 ultra 128MB	116,42104	6.459		78,762,255	441,043,625	487,161,173	287,636,706	576,683,197	490,896,992	337,122,045	95,880,514	180,044,575	.pcf	win32	2	2-Jan-2009	Russia	LZMA2/c4:128; PPMd:1024 c10 + delta:3	5.32
27		CMM4 0.2b 96 (2008) Christopher Mattern	116,52,504	4.843	84.200	84,230,200	510,474,018	484,866,207	295,203,523	579,100,338	482,882,407	295,327,180	94,054,554	164,999,356	.cmm4	win32	1	24-Jan-2008	Germany	BWT + LZT + filter	6.00
28		LPAQ1 -9 (2007) Matt Mahoney et al.	116,86397	11.332	12.095	84,488,523	516,330,193	487,019,940	281,496,506	574,106,066	481,490,206	304,463,339	91,980,129	167,883,859	.lpaq1	win32	1	24-Jul-2007	United States	Fast CM	6.76
29	GUI	UHARC 0.6b -mx2 -mm+ -u Herklotz	116,97022	8.159		86,150,780	477,283,560	501,753,140	278,204,183	585,324,918	493,994,703	303,802,047	95,880,514	203,974,516	.uha	win32	1	6-Feb-2005	Germany	PPM 50 MB + LZ + ARI 291 MB	9.23
30	GUI	7-ZIP 9.33 LZMA2 ultra 128MB	117,00,783	2.830	1.639	79,500,816	441,035,970	461,235,084	283,653,445	577,255,170	487,440,921	322,709,493	96,126,394	177,782,152	.7z	win32	1	9-Dec-2012	Russia	LZMA2:128; PPMd:1024 o14; delta:3	5.34
31		BIT 0.7 LWCX -P=5 Osman Turan	117,32270	6.284		85,276,158	510,306,657	468,307,627	287,061,074	578,113,802	483,390,665	303,742,288	92,916,199	168,718,324	.bit	win32	1	4-Jan-2009	Turkiye	Context Mixing	5.31
32	GUI	UHARC 0.4 (V1) -mx/-m3 -mm+ -u Herklotz	117,90652	5.590		83,847,245	397,613,829	478,846,248	304,729,847	582,239,685	493,432,585	298,983,171	96,934,509	212,232,106	.uha	win32	1	28-Dec-2001	Germany	LZP ALZ PPM	12.33
33		TANGELO 1.4 (2013) Jan Ondrus	117,95,970	19.560		80,970,960	522,955,272	488,617,128	288,474,516	577,858,048	482,121,406	308,131,736	92,391,327	164,973,392	.tan	win32	1	6-Jul-2013	Czech Republic	Fast CM	0.69
34		PPMonstr ver J -o16 -m1600 D. Shkarin	117,76693	24.383	24.475	77,709,784	490,752,860	478,341,671	284,281,919	577,945,041	482,786,804	309,513,090	91,490,102	164,192,030	.pmm	win32	1	16-Feb-2006	Russia	PPM-II	8.20
35		SBC 0.970r3 -m3 -b63 -os Sami Makinen	118,03927	3.047		84,208,075	503,347,648	462,296,005	274,483,756	574,136,654	481,980,883	298,708,197	91,158,260	169,172,451	.sbc	win64	1	11-Mar-2008	Finland	BWT + CM + filter	6.13
36		TANGELO 2.3 (2013) Jan Ondrus	118,04697	3.665		89,309,602	516,077,838	474,198,601	290,782,195	577,801,308	484,812,825	312,002,309	93,346,539	172,846,758	.tan	win32	1	6-Jul-2013	Czech Republic	Fast CM	0.81
37	GUI	Squeez 5.63 / SpeedCmd (32MB ultra) auto	119,38670	7.325		85,752,271	561,600,947	489,620,860	298,886,419	577,911,802	483,276,666	355,828,299	40,097,449	185,335,398	.sqx	win64	1	11-May-2005	Germany	LZR / PPM (o8, 768 MB) + filter	8.96
38		RZM 0.07e (2008) Christian Martelock	119,42104	5.095		80,746,777	470,058,237	479,729,744	302,929,274	577,999,722	484,911,323	299,998,720	94,971,973	169,711,323	.rzm	win32	1	16-Mar-2008	Germany	64 MB sliding window ROLZ	6.11
39		REFLATE 0c1 (2009) Eugene Shelwien	118,58749	10.707		86,576,376	535,503,906	488,026,153	304,551,121	584,667,185	494,823,653	349,617,414	93,730,570	193,096,444	.pcf	win32	1	31-Dec-2011	Russia	ZLIB/PNG + CM + filter	3.33
40	GUI	Compressia 1.0b max, 15MB, english, solid Yaak	118,86868	23.753		82,086,199	488,772,424	475,960,844	298,548,015	591,134,831	491,043,803	310,841,214	97,257,475	182,328,204	.car	win32	1	1-Mar-2003	Israel	BWT + ARI + PPM-II + filter	11.16
41		Packet 1.1 -m4 -t57 -mx Francesco Nania	119,27,277	3.046		86,588,387	490,864,727	481,422,332	301,232,704	577,999,722	484,911,323	299,998,720	94,971,973	169,711,323	.packet	win32	1	7-Dec-2013	Italy	LZ + CM + filter	0.39
42	GUI	FLASHZIP 1.3 (2013) -m -s -mx3 -k7 -b1024	119,31325	1.667		88,961,837	384,819,601	496,852,845	319,261,810	578,923,326	486,803,989	288,721,818	38,740,607	210,064,678	.flz	win32	1	5-Aug-2013	Italy	ROLZ + ARI	0.73
43	GUI	FLASHZIP 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	288,721,818	38,740,447	210,064,678	.flz	win32	1	3-Dec-2012	Italy	ROLZ + ARI	1.40
44	GUI	UHARC 0.6b -m3 -mm+ -u -ms=0 MB U. Herklotz	119,42,553	8.793		84,008,979	396,767,348	484,854,078	303,929,451	582,239,685	493,432,585	298,983,171	96,934,509	212,232,106	.uha	win32	1	28-Dec-2001	Germany	ALZP ARI PPM MB	9.23
45	GUI	STUFFIT 14.0.7 (2012) bit-perfect	119,92363	2.679		95,432,555	403,289,660	484,760,108	271,777,543	585,557,564	452,060,163	344,487,557	39,655,270	210,064,678	.sea	win64	8	8-Feb-2010	United States	LZARI 5.28 / PPM 16:30	4.22
46		MComp 2.00 -mf3x 600m (2008) M. Taylor	119,98764	11.171		84,823,247	515,406,343	485,310,839	299,880,731	576,103,500	483,944,894	333,861,782	33,861,782	179,927,192	.mcomp	win64	1	23-Aug-2008	New Zealand	ROLZ-3	5.68
47	GUI	WinRar 4.20 solid best Francesco Nania	119,99,285	2.285	2.183	92,959,368	408,872,338	487,161,173	287,636,706	577,169,132	484,547,738	286,593,161	92,892,892	167,908,122	.rar	win64	1	29-Jun-2012	Russia	PPM-II + LZSS + filter	1.80
48		BSC 3.1.0 -b102d -m0 -e2 Ilya Grebnov	120,09777	1.069	650	106,062,384	513,460,698	504,212,594	294,567,520	585,458,040	490,817,414	324,642,920	38,190,522	167,869,306	.bsc	win64	8	8-Jul-2012	Russia	BWT + libdivsufsort + OLFC + CM + filter	1.80
49		BSC 3.1.0 -b102d+srca -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	324,577,856	38,261,586	172,050,328	.bsc	win64	8	8-Jul-2012	Russia	BWT + libdivsufsort + OLFC + CM + filter	1.80
50		TC 5.2 Dev.2 (2007) Matthew T. Mahoney	120,79,846	8.846		88,221,049	533,737,274	477,280,440	293,993,910	585,502,792	490,922,047	329,802,047	95,880,514	167,883,859	.tc	win32	1	5-Feb-2007	Russia	Fast PAQ Weighting	7.23
51		PPMonstr ver I (2002) -o16 -m1600 D. Shkarin	120,84227	22.427	15.429	85,932,151	510,674,710	478,413,969	286,829,751	582,155,671	488,867,113	318,828,729	93,346,449	158,182,202	.pmm	win32	2	30-Apr-2002	Russia	PPM-II	11.99
52		BSC 3.1.0 -b102d+srca -m0 -H28 -M255 I. Gre	121,31156	1.288		108,172,356	412,185,160	507,255,944	300,897,766	581,534,528	484,820,043	324,387,750	38,202,132	172,066,806	.bsc	win64	8	8-Jul-2012	Russia	LZP+BWT+libdivsufsort+OLFC + CM + filter	1.80
53		Bitzzard 0.24 300m (2008) Joe Bogner	121,44,816			88,816,831	502,115,581	492,076,144	302,255,992	587,731,585	494,889,171	329,888,585	95,880,514	171,545,892	.blz	win32	1	30-Jun-2008	Germany	BWT + CM/EC	5.63
54		BSC 3.1.0 -b102d -m0 -e2 Ilya Grebnov	121,35444	3.430		90,121,506	430,775,908	489,030,019	315,898,262	578,386,352	485,829,975	323,753,445	37,803,252	204,385,085	.bsc	win64	8	8-Jul-2012	Russia	LZP+BWT+libdivsufsort+OLFC + CM + filter	1.80
55		CTXf 0.75 pre-b1 (2003) -me -b L. Nikita	121,50288			101,856,759	407,913,955	481,460,128	308,122,202	590,693,341	489,051,946	311,183,180	37,513,145	198,221,614	.cxf	win32	1	27-Sep-2003	Belarus	PPM-II + filter	10.58
56		Bitzzard 0.24 30m (768) Joe Bogner	121,50,553			84,008,979	396,767,348	484,854,078	303,929,451	582,239,685	493,432,585	298,983,171	96,934,509	212,232,106	.uha	win32	1	28-Dec-2001	Germany	BWT + CM/EC	5.63
57	GUI	WinRar 4.20 solid best Francesco Nania	121,52,553			93,212,800	409,067,261	510,033,127	307,792,311	583,840,363	487,797,256	321,392,802	38,231,702	218,410,260	.rar	win64	1	29-Jun-2012	Russia	LZ77 + Huffman + PPM-II + filter	1.98
58		BEE 0.7.9 -m3 -d9 A.Filinsky & M.Caruso	122,88370			96,006,788	551,429,377	488,258,767	298,267,270	593,584,313	488,392,823	325,177,589	36,045,184	170,393,336	.bee	win32	1	23-Sep-2005	Russia	PPM	8.59
59	GUI	DGCA 1.00 -1 10e (Win32) Simon Berthold, Roshal	122,89,553	2.004		92,959,368	408,872,338	487,161,173	287,636,706	577,169,132	484,547,738	286,593,161	92,892,892	167,908,122	.dgc	win32	1	24-Aug-2004	Japan	BWT + ARI	9.74
60		YZX 0.11 -r -s -m9 -h8 -h5 Francesco Nania	122,97762	1.455		96,926,596	401,535,701	494,529,097	322,515,123	596,487,480	487,188,193	301,389,949	40,203,453	213,795,355	.yzx	win32	1	4-Jan-2012	Italy	LZKS	2.31
61	GUI	PeaZip 3.3 -7z ultra + adv filters G. Tani	123,09628			79,557,116	543,048,858	499,251,222	321,073,660	577,113,799	487,804,108	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 (2012) -m256 -b1 Ilya Muravyov	123,09,276	2.137		109,094,976	489,127,439	498,161,407	305,355,582	588,597,775	491,415,487	329,302,047	36,290,405	169,142,820	.bcm	win32	1	23-Jun-2013	Russia	PPM-II + BWT + ISSE + filter	0.84
63		LZMA SDK 9.20 + LZMAREC E. Shelwien	123,88328			86,206,325	532,637,848	488,712,409	305,744,176	578,224,449	484,247,497	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) Matt Mahoney	123,72660	17.109		108,108,941	514,242,745	479,926,123	299,022,344	588,953,967	485,036,191	303,250,005	38,867,037	176,930,184	.bbb	win32	1	31-Aug-2006	United States	BWT	7.66
65		M03 1.1 blocksize 150 M. A. Maniscalco	123,84,984	7.450		108,002,052	528,948,894	487,992,438	305,483,360	589,660,415	491,344,581	329,356,247	39,316,247	167,169,053	.m03	win32	1	15-Oct-2011	United States	BWT + CM	2.21
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	336,818,689	37,054,168	175,321,640	.pmd	win32	1	9-Dec-2008	Russia	PPM-II (o16, m1600)	5.38
67		Durilca'light 0.5 -m800 -c32 Dmitry Shkarin	124,10389	6.173		101,735,814	546,893,296	492,566,701	293,867,873	587,588,278	486,458,650	331,538,623	36,285,821	175,973,254	.dul	win32	1	1-Apr-2006	Russia	PPM-II + filter	8.07
68		Bitzzard 0.24 300m (256) Joe Bogner	124,10,489			108,009,738	522,103,606	492,076,144	302,255,992	587,731,585	494,889,171	329,888,585	95,880,514	171,545,892	.blz	win32	1	30-Jun-2008	Germany	BWT + CM/EC	5.63
69		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	485,557,000	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) Ilya Muravyov	124,26783	1.593		109,705,317	524,070,262	480,463,720	300,316,365	593,675,968	486,871,659	304,919,660	38,994,819	171,873,993	.bcm	win32	1	31-Oct-2010	Russia	BWT + CM	3.49
71		LZHAM v0*1 -m4 -d29 -e2 Rich Geldreich, Jr.	124,27,129	0.405		88,884,166	508,250,882	488,258,767	298,267,270	577,993,631	483,422,129	297,760,035	36,718,716	202,972,904	.lzham	win64	1	23-Sep-2012	Russia & United States	LZ + Huffman + ARI + MARKOV	0.37
72		CSC 3.2 final (2011) -m3 -d512 -f Yu Siyuan	124,71721	1.209		88,534,765	411,371,250	482,106,407	324,170,450	577,523,189	487,374,122	332,646,388	41,620,483	235,589,271	.csc3	win32	1	18-Aug-2011	China	LZ77 + ARI + filters	2.69
73		LZHAM d6 -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	485,560,450	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_b1630d Edgar Binder	124,88,904			116,635,412	421,314,094	487,597,276	305,597,752	589,560,415	487,597,276	354,494,384	36,290,405	169,142,820	.dst	win32	1	12-Apr-2000	Germany	BWT + Distance Coding	14.04
75	GUI		125,08731	1.156	358	90,158,844	432,589,940	504,354,380	331,617,046	575,585,759	487,400,203	346,631,781	39,601,660	218,721,519	.rar	win64	8	22-Aug-2013	Russia	LZ77 + Huffman + filter	0.68
76	GUI	Free Zip Archiver 2.0.1.2 max Hamstersoft	126,32985			80,295,152	542,499,471	500,230,528	321,375,512	581,634,110	489,936,181	365,813,900	36,820,961	202,974,954	.7z	win32	2	6-Mar-2012	United States	LZMA + filter	2.14
77		UHBC 1.1 (102) -b1 -m6 -M1 A. Maniscalco	126,34,984			108,002,052	528,948,894	487,992,438	305,483,360	589,660,415	491,344,581	329,356,247	39,316,247	167,169,053	.uhbc	win32	1	15-Oct-2011	United States	BWT + WFC + MTF	2.21
78	GUI	M03 (2005) 32 MB Michael A. Maniscalco	125,80268			108,531,937	532,097,101	482,605,805	302,273,609	594,825,412	490,128,616	317,729,374	38,146,497	182,664,270	.m03	win32	1	15-Feb-2005	United States	BWT	9.20
79		LZMA SDK 9.20 (2010) -d27 -fb273 I. Pavlov	126,84327	1.593		88,578,383	541,569,322	500,259,902	311,681,734	581,554,823	489,877,140	366,175,283	36,216,616	197,679,384	.lzma	win32	2	18-Nov-2010	Russia	LZMA 9.20	3.44
80	GUI	KuaiZip 2.3.2 (2011) best solid	126,84791	2.374		88,961,732	541,637,746	500,241,664	311,682,435	581,732,635	489,877,140	366,175,283	36,201,187	202,972,904	.kzp	win32	1	26-Sep-2011	China	LZMA (*)	2.60
81			126,19838	10.982		103,436,610	562,984,205	488,551,813	296,380,124	581,170,478	482,817,722	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) Sami Runsas	126,22262	392		95,021,017	367,001,969	520,764,815	326,122,831	574,792,742	486,796,796	288,783,661	44,067,167	264,844,379	.nz	win64	4	4-Nov-2011	Finland	LZHDS + filter	2.48
83		SMAC 1.19 (2013) -m300m -t4 -o0 -d0 -f0	126,30,869	10.269		103,553,163	563,091,725	488,904,454	296,786,060	581,210,127	482,994,512	346,818,917	37,158,984	184,854,016	.sma	win32	1	1-Dec-2013	France	Fast CM	0.37
84		SMAC 1.18 (2013) Jean-Marie Barone	126,32570	15.301		103,593,755	563,091,038	488,903,135	296,796,413	581,210,396	483,009,146	346,818,505	37,159,116	185,164,417	.sma	win32	1	7-Dec-2013	France	Fast CM	0.39
85	GUI	WinZip 18.0 ZIPX best method - Corel Corp.	126,41723	993	743	107,598,037	363,119,941	499,808,100	286,191,080	581,665,614	485,061,860	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	GUI	UHARC 0.2 (1997) -m2 -mm+ -u Herklotz	126,45,346			90,421,346	427,204,915	487,597,276	305,597,752	589,560,415	491,415,487	354,494,384	36,290,405	169,142,820	.uha	win32	1	21-Dec-1997	Germany	LZ + ARI	16.33
87		BSSC 0.95a -b1638 3as Sergeo Szikov	126,50427			106,488,393	514,810,218	482,648,538	305,387,815	589,828,182	486,083,486	322,682,944	39,476,848	199,433,478	.bssc	win32	1	12-Mar-2005	Russia	BWT + DCE + filter	9.13
88	GUI	Power Archiver 13.02.04 -7z opt ultra solid	126,81163	2.698		82,645,296	606,680,942	499,781,278	308,482,141	577,347,120	487,529,751	366,031,819	36,829,715	196,472,264	.7z	win32	2	24-Sep-2012	United States	LZMA / PPMd	1.59
89		WZ 1.1 alpha -9 -r -s2007 -t4 Christian Martelock	126,84,599	8.774	351	89,174,836	542,073,960	493,204,330	310,127,380	581,723,257	487,198,176	358,981,647	36,821,412	203,102,553	.wz	win32	1	24-Apr-2013	Finland	LZ + CM + filter	0.84
90	GUI	WinRar 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	490,126,332	300,556,906	41,761,190	248,471,149	.ace	win32	1	28-Feb-2005	Germany	LZ77 + Huffman + filter	9.16
91		PPMVC 1.2 -o8 -m256 P. Skibinski	126,90786			105,065,841	552,136,807	482,868,569	299,863,893	591,019,