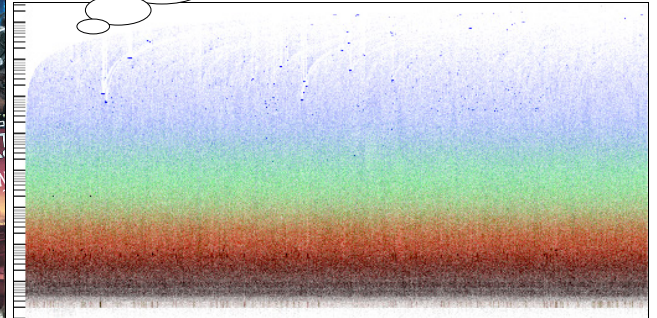


TEXTORAMIC Decompression Showdown — LZ4 vs LZO vs ZLIB vs 7Z vs RAZOR vs ZPAQ vs bwturbo vs ZSTD vs LZTURBO vs OODLE vs BROTLI vs LIZARD vs BriefLZ vs Crush vs Satanichi



The struture of the corpus is shown in the diagram above. Each pixel represents a match between consecutive occurrences of a string. The color of the pixel represents the length of the match: black for 1 byte, red for 2, green for 4 and blue for 8. The horizontal axis represents the position of the second occurrence of the string. The vertical axis represents the distance back to the match on a logarithmic scale. (The image was generated by the fv program).
<http://www.mattmahoney.net/dc/dce.html>



Globaltime	Compressed Size
325,071,872	Star_Trek_-_737_Ebooks.tar
157s	100,553,919 Star_Trek_-_737_Ebooks.tar.9.crush_xezz
584s	93,091,642 Star_Trek_-_737_Ebooks.tar.blz
943s	71,953,202 Star_Trek_-_737_Ebooks.tar.bro
399s	72,762,430 Star_Trek_-_737_Ebooks.tar.l2w2g8.zst
108s	87,925,703 Star_Trek_-_737_Ebooks.tar.method211.zpaq
1066s	56,030,908 Star_Trek_-_737_Ebooks.tar.method511.zpaq
295s	72,018,734 Star_Trek_-_737_Ebooks.tar.MX9dict1024.7z
424801s	94,139,165 Star_Trek_-_737_Ebooks.tar.Nakamichi
188s	94,122,899 Star_Trek_-_737_Ebooks.tar.optimal.bcrush
1177s	63,070,761 Star_Trek_-_737_Ebooks.tar.rz
44s	59,411,519 Star_Trek_-_737_Ebooks.tar.zv

```

Command Line
SHA1SUM: b8e5c4b1932300dee41c1e9655951599d4f7a036
crush_xezz.exe -9 "%1" "%1.9.crush_xezz"
BriefLZ_130_Intel_v19_64bit.exe --optimal -b2g "%1" "%1.blz"
brotli.icl9.exe -q 11 --large-window=30 "%1" -o "%1.bro"
zstd-v1.4.4-win64.exe --single-thread --ultra -22 --zstd-wlog=31,clog=30,hlog=30,slog=26 "%1" -o "%1.l2w2g8.zst"
"zpaq_v7.05_x64.exe" add "%1.method211.zpaq" "%1" -method 211 -threads 1
"zpaq_v7.05_x64.exe" add "%1.method511.zpaq" "%1" -method 511 -threads 1
"7za_x64_v1900.exe" a -t7z -mx9 -md=30 "%1.MX9dict1024.7z" "%1"
Satanichi GCC730_64bit.exe "%1" "%1.Nakamichi" 24 40123 e
bcrush_IcL150_64bit.exe --optimal "%1" "%1.optimal.bcrush"
rz.exe a -d 1023M "%1.rz" "%1"
bwturbo -59 -t0 -b1024 "%1" "%1.zv"
    
```

TurboBench v18.05 Copyright (c) 2013-2018 Powturbo 04 May 2018
 Latest available **oodle** was used:
 1,085,952 bytes **oolcore_6_win64.d11**

D:\TEXTORAMIC_part>"turbobench v18.05 -_build_04_May_2018" "Star_Trek_-_737_Ebooks.tar" -
 esnappy_c/yappy/bzip2/lzlib,9d30fb273/lzma,9d30:fb273:mf=bt4/oodle,89,91,95,99,111,115,119,129,139/lzturbo,19,12,10,29,22,20,39,32,30,59/brotli,11d30/zstd,1,5,22d30/lizard,11,19,21,29,31,39,41,49/tr
 le -i3 -j31 -k1 -B2G

C Size	ratio%	C MB/s	D MB/s	Name	File
59411401	18.3	6.39	30.93	lzturbo 59	Star_Trek_-_737_Ebooks.tar
71865410	22.1	0.75	62.18	lzlib 9d30fb273	Star_Trek_-_737_Ebooks.tar
71943246	22.1	0.79	84.92	lzma 9d30:fb273:mf=bt4	Star_Trek_-_737_Ebooks.tar
71952589	22.1	0.34	230.02	brotli 11d30	Star_Trek_-_737_Ebooks.tar
72354088	22.3	0.66	596.32	lzturbo 39	Star_Trek_-_737_Ebooks.tar
72861997	22.4	0.91	568.55	zstd 22d30	Star_Trek_-_737_Ebooks.tar
74086496	22.8	0.22	498.89	oodle 139 'Leviathan'	Star_Trek_-_737_Ebooks.tar
74230924	22.8	0.17	540.06	oodle 129 'Hydra'	Star_Trek_-_737_Ebooks.tar
74286603	22.9	0.25	540.56	oodle 89 'kraken'	Star_Trek_-_737_Ebooks.tar
81391807	25.0	0.66	951.83	lzturbo 29	Star_Trek_-_737_Ebooks.tar
84321413	25.9	11.45	22.05	bzip2	Star_Trek_-_737_Ebooks.tar
89815371	27.6	29.50	604.95	lzturbo 32	Star_Trek_-_737_Ebooks.tar
91581386	28.2	0.30	1600.39	oodle 99 'Mermaid'	Star_Trek_-_737_Ebooks.tar
92993537	28.6	1.24	684.44	lizard 49	Star_Trek_-_737_Ebooks.tar
93091642				BriefLZ_130_Intel_v19_64bit --optimal -b2g	
94051717	28.9	0.58	1561.06	oodle 95 'Mermaid'	Star_Trek_-_737_Ebooks.tar
94139165			791	Satanichi_GCC730_64bit	! outside turbobench
111947098	34.4	78.44	606.03	zstd 5	Star_Trek_-_737_Ebooks.tar
112249518	34.5	1.28	1018.33	lizard 29	Star_Trek_-_737_Ebooks.tar
113118398	34.8	5.91	1514.92	lizard 39	Star_Trek_-_737_Ebooks.tar
114699029	35.3	0.32	2037.29	oodle 119 'Selkie'	Star_Trek_-_737_Ebooks.tar
115805092	35.6	0.65	2212.56	oodle 115 'Selkie'	Star_Trek_-_737_Ebooks.tar
125409207	38.6	28.86	926.26	lzturbo 22	Star_Trek_-_737_Ebooks.tar
128359445	39.5	187.71	824.40	lzturbo 30	Star_Trek_-_737_Ebooks.tar
130464112	40.1	194.87	765.15	zstd 1	Star_Trek_-_737_Ebooks.tar
132339930	40.7	0.75	3102.63	lzturbo 19	Star_Trek_-_737_Ebooks.tar
132391865	40.7	6.16	2543.68	lizard 19	Star_Trek_-_737_Ebooks.tar
132791016	40.8	106.59	927.85	lizard 41	Star_Trek_-_737_Ebooks.tar
132987871	40.9	120.03	1457.02	oodle 91 'Mermaid'	Star_Trek_-_737_Ebooks.tar
142275352	43.8	42.41	3149.01	lzturbo 12	Star_Trek_-_737_Ebooks.tar
147554456	45.4	145.03	1511.07	lizard 31	Star_Trek_-_737_Ebooks.tar
166213876	51.1	124.24	1594.54	lizard 21	Star_Trek_-_737_Ebooks.tar
167973531	51.7	171.30	2157.18	lizard 11	Star_Trek_-_737_Ebooks.tar
181586501	55.9	257.57	885.41	lzturbo 20	Star_Trek_-_737_Ebooks.tar
181638958	55.9	135.40	2877.66	oodle 111 'Selkie'	Star_Trek_-_737_Ebooks.tar
181653083	55.9	65.89	1264.83	yappy	Star_Trek_-_737_Ebooks.tar
193771469	59.6	268.56	828.42	esnappy_c	Star_Trek_-_737_Ebooks.tar
197631049	60.8	282.13	2533.43	lzturbo 10	Star_Trek_-_737_Ebooks.tar
324553919	99.8	192.46	2012.63	trle	Star_Trek_-_737_Ebooks.tar

SPEED BRUTALITY:
LzTurbo 29 is in its own class -
 smokes all - WITHOUT ENTROPY CODING
 on top of that!
LzTurbo 39 is 596/84=7.09x faster
 than LZMA!

Notes:

- Latest available 'oolcore_6_win64.d11' was used;
- **oodle** Compressors: Kraken = 8 (Default); Leviathan = 13 (Best); Mermaid = 9 (Crazy fast); Selkie = 11 (Fastest); Hydra = 12 (Tuneable composite of above);
- **oodle** Levels: HyperFast = -4,-1; None = 0; SuperFast = 1; VeryFast = 2; Fast = 3; Normal = 4; Optimal1,2,3,4 = 5,6,7,8;
- The tweak value **spacespeedtradeoff** [-64..1024] "tweak size vs decode time" has not been played with!
- If you wanna see more performers/options, write me to sanmayce@sanmayce.com, will try to add them.

Q: Satanichi, why such a name? **A:** The name comes from inferiorating/infernalizing the legendary name 'Zatoichi' 座頭 and 'Nakamichi' 中道.

The character's name is actually Ichi. Zato is a title, the lowest of the four official ranks within the Tōdōza, the historical guild for blind men.

(Thus zato also designates a blind person in Japanese slang.) Ichi is therefore properly called Zato-no-Ichi ("Low-Ranking Blind Person Ichi",

approximately), or Zatoichi for short. Massage was a traditional occupation for the blind (as their lack of sight removed the issue of gender)

as was playing the biwa or, for blind women (goze), the shamisen. Being lesser Hinin (lit. "non-people"), blind people and masseurs were

regarded as among the very lowest of the low in social class, other than Eta or outright criminals; they were generally considered wretches

beneath notice, no better than beggars or even the insane - especially during the Edo period - and it was also commonly thought that the

blind were accursed, despicable, severely mentally disabled, deaf and sexually dangerous. / Source: <https://en.wikipedia.org/wiki/Zatoichi>

Thus, the most despicable (Angel of Accusation) trumps in its lowness even the most slandered/abused/attacked person in Chanbara Eiga -

26 movies, and 100 TV series of WALKING THROUGH INFERNO!

♦ Home of **lzbench**: <https://github.com/inikop/lzbench> ♦ Home of **TurboBench**: <https://github.com/powturbo/TurboBench> ♦ page - 74 -

♦ Home of **The Eye of the Dragon**: <http://www.sanmayce.com/Nakamichi>; The B-tree boosted variant: <https://community.centminmod.com/posts/80053/>

♦ Testmachine: Laptop 'Compressionette' Lenovo Ideapad 310; i5-7200u @2.5GHz; 8GB DDR4 @1066MHz (2133MHz) CL15 CR2T; L2 cache: 2x256KB; L3 cache: 3MB

♦ **Starfox** - Kaze's Superfast Decompression Textual Showdown; **update:** 2020-Apr-06; **tester:** Kaze, <https://twitter.com/Sanmayce> plus <http://www.satanichi.net/index.html>



D:\TEXTORAMIC_part\lzbenc18 -c4 -i1,5 -o3 -
elzham,4/slz_deflate,3/slz_gzip,3/slz_zlib,3/tornado,1,16/bzip2,1,9/zstd,1,22/zstdLDM,1,22/fastlzma2,1,10/brotli,0,1,3,5,11/blosclz,1,9/brieflz,1,5,9/crush,2/csc,5/density,1,3/fastlz,2/gipfeli/1zolib
999/libdeflate,1,12/1z4,1,12/1zard,11,19,21,29,31,39,41,49/1zfse/1zg,9/1zjb/1zlib,9/1zma,0,1,9/1zrw,5/1zsse2,17/1zsse4,17/1zsnappy,9/quicklz,3/snappy/slz_zlib,3/uc1_nrv2b,9/uc1_n
rv2d,9/uc1_nrv2e,9/xpack,1,9/xz,9/yalzv77,12/yappy,99/zlib,1,5,9/zling,4/shrinker/wflz/1zmat "Star_Trek_-_737_Ebooks.tar"
lzbenc 1.8 (64-bit windows) Assembled by P.Skribinski
The results sorted by column number 4:

Compressor name	Compress. size	Decompress. size	Orig. size	Compr. size	Ratio	Filename
zstd 1.4.3 -22	0.96 MB/s	562 MB/s	325071872	74898542	23.04	Star_Trek_-_737_Ebooks.tar
zstdLDM 1.4.3 -22	0.96 MB/s	564 MB/s	325071872	75073640	23.09	Star_Trek_-_737_Ebooks.tar
xz 5.2.4 -9	0.92 MB/s	80 MB/s	325071872	75247690	23.15	Star_Trek_-_737_Ebooks.tar
csc 2016-10-13 -5	1.86 MB/s	59 MB/s	325071872	75257960	23.15	Star_Trek_-_737_Ebooks.tar
lzma 19.00 -9	0.91 MB/s	82 MB/s	325071872	75285260	23.16	Star_Trek_-_737_Ebooks.tar
lzham 1.0 -d26 -4	0.70 MB/s	183 MB/s	325071872	75346240	23.18	Star_Trek_-_737_Ebooks.tar
tornado 0.6a -16	1.16 MB/s	175 MB/s	325071872	76133370	23.42	Star_Trek_-_737_Ebooks.tar
lzlib 1.11 -9	0.92 MB/s	60 MB/s	325071872	77039890	23.70	Star_Trek_-_737_Ebooks.tar
fastlzma2 1.0.1 -10	2.53 MB/s	74 MB/s	325071872	77418586	23.82	Star_Trek_-_737_Ebooks.tar
brotli 2019-10-01 -11	0.42 MB/s	347 MB/s	325071872	84113950	25.88	Star_Trek_-_737_Ebooks.tar
bzip2 1.0.8 -9	11 MB/s	23 MB/s	325071872	84321409	25.94	Star_Trek_-_737_Ebooks.tar
lizard 1.0 -49	1.23 MB/s	685 MB/s	325071872	92993533	28.61	Star_Trek_-_737_Ebooks.tar
Satanichi_GCC730_64bit.exe						94139165 ! outside lzbenc
zling 2018-10-12 -4	27 MB/s	142 MB/s	325071872	94558923	29.09	Star_Trek_-_737_Ebooks.tar
brieflz 1.2.0 -9	0.30 MB/s	219 MB/s	325071872	96360996	29.64	Star_Trek_-_737_Ebooks.tar
crush 1.0 -2	0.15 MB/s	273 MB/s	325071872	100126275	30.80	Star_Trek_-_737_Ebooks.tar
bzip2 1.0.8 -1	12 MB/s	31 MB/s	325071872	100433777	30.90	Star_Trek_-_737_Ebooks.tar
brotli 2019-10-01 -5	20 MB/s	371 MB/s	325071872	102104431	31.41	Star_Trek_-_737_Ebooks.tar
xpack 2016-06-02 -9	5.84 MB/s	786 MB/s	325071872	108039900	33.24	Star_Trek_-_737_Ebooks.tar
fastlzma2 1.0.1 -1	11 MB/s	53 MB/s	325071872	110715148	34.06	Star_Trek_-_737_Ebooks.tar
libdeflate 1.3 -12	5.37 MB/s	624 MB/s	325071872	111798921	34.39	Star_Trek_-_737_Ebooks.tar
lizard 1.0 -29	1.27 MB/s	1016 MB/s	325071872	112249514	34.53	Star_Trek_-_737_Ebooks.tar
lizard 1.0 -39	5.68 MB/s	1604 MB/s	325071872	113118394	34.80	Star_Trek_-_737_Ebooks.tar
lzma 19.00 -1	15 MB/s	52 MB/s	325071872	114902452	35.35	Star_Trek_-_737_Ebooks.tar
lzsse2 2019-04-18 -17	4.29 MB/s	2980 MB/s	325071872	116948217	35.98	Star_Trek_-_737_Ebooks.tar
zlib 1.2.11 -9	10 MB/s	243 MB/s	325071872	117467316	36.14	Star_Trek_-_737_Ebooks.tar
lzsse4 2019-04-18 -17	4.24 MB/s	2490 MB/s	325071872	117550711	36.16	Star_Trek_-_737_Ebooks.tar
brieflz 1.2.0 -5	29 MB/s	195 MB/s	325071872	118019036	36.31	Star_Trek_-_737_Ebooks.tar
1zfse 2017-03-08	40 MB/s	511 MB/s	325071872	118532744	36.46	Star_Trek_-_737_Ebooks.tar
brotli 2019-10-01 -3	63 MB/s	332 MB/s	325071872	118866241	36.57	Star_Trek_-_737_Ebooks.tar
lzsse8 2019-04-18 -17	5.40 MB/s	2391 MB/s	325071872	118938846	36.59	Star_Trek_-_737_Ebooks.tar
zlib 1.2.11 -5	23 MB/s	236 MB/s	325071872	120496498	37.07	Star_Trek_-_737_Ebooks.tar
lzma 19.00 -0	17 MB/s	44 MB/s	325071872	124059720	38.16	Star_Trek_-_737_Ebooks.tar
brotli 2019-10-01 -1	128 MB/s	290 MB/s	325071872	124577273	38.32	Star_Trek_-_737_Ebooks.tar
uc1_nrv2e 1.03 -9	0.67 MB/s	236 MB/s	325071872	125187583	38.51	Star_Trek_-_737_Ebooks.tar
uc1_nrv2d 1.03 -9	0.65 MB/s	239 MB/s	325071872	126780577	39.00	Star_Trek_-_737_Ebooks.tar
1zolib 2.10 -999	7.42 MB/s	430 MB/s	325071872	129006696	39.69	Star_Trek_-_737_Ebooks.tar
zstdLDM 1.4.3 -1	135 MB/s	446 MB/s	325071872	129872960	39.95	Star_Trek_-_737_Ebooks.tar
uc1_nrv2b 1.03 -9	0.62 MB/s	229 MB/s	325071872	129881662	39.95	Star_Trek_-_737_Ebooks.tar
zstd 1.4.3 -1	213 MB/s	446 MB/s	325071872	130076088	40.01	Star_Trek_-_737_Ebooks.tar
libdeflate 1.3 -1	120 MB/s	657 MB/s	325071872	130652419	40.19	Star_Trek_-_737_Ebooks.tar
lizard 1.0 -19	5.76 MB/s	2496 MB/s	325071872	132391861	40.73	Star_Trek_-_737_Ebooks.tar
xpack 2016-06-02 -1	111 MB/s	533 MB/s	325071872	132603608	40.79	Star_Trek_-_737_Ebooks.tar
lizard 1.0 -41	105 MB/s	945 MB/s	325071872	132791012	40.85	Star_Trek_-_737_Ebooks.tar
brotli 2019-10-01 -0	168 MB/s	268 MB/s	325071872	136016635	41.84	Star_Trek_-_737_Ebooks.tar
lzmat 1.01	19 MB/s	239 MB/s	325071872	137068957	42.17	Star_Trek_-_737_Ebooks.tar
1zg 1.0.10 -9	0.39 MB/s	481 MB/s	325071872	138873369	42.72	Star_Trek_-_737_Ebooks.tar
yalzv77 2015-09-19 -12	17 MB/s	247 MB/s	325071872	138990428	42.76	Star_Trek_-_737_Ebooks.tar
brieflz 1.2.0 -1	123 MB/s	171 MB/s	325071872	140708729	43.29	Star_Trek_-_737_Ebooks.tar
zlib 1.2.11 -1	65 MB/s	233 MB/s	325071872	141754008	43.61	Star_Trek_-_737_Ebooks.tar
lizard 1.0 -31	145 MB/s	1592 MB/s	325071872	147554452	45.39	Star_Trek_-_737_Ebooks.tar
density 0.14 -2	336 MB/s	324 MB/s	325071872	148445110	45.67	Star_Trek_-_737_Ebooks.tar
gipfeli 2016-07-13	187 MB/s	339 MB/s	325071872	152648326	46.96	Star_Trek_-_737_Ebooks.tar
1zvn 2017-03-08	34 MB/s	627 MB/s	325071872	153408359	47.19	Star_Trek_-_737_Ebooks.tar
quicklz 1.5.0 -3	33 MB/s	556 MB/s	325071872	154572295	47.55	Star_Trek_-_737_Ebooks.tar
1zrw 15-Jul-1991 -5	87 MB/s	339 MB/s	325071872	155763325	47.92	Star_Trek_-_737_Ebooks.tar
1pithy 2011-12-24 -9	198 MB/s	1224 MB/s	325071872	163121706	50.18	Star_Trek_-_737_Ebooks.tar
lizard 1.0 -21	124 MB/s	1600 MB/s	325071872	166213872	51.13	Star_Trek_-_737_Ebooks.tar
lizard 1.0 -11	173 MB/s	2323 MB/s	325071872	167973527	51.67	Star_Trek_-_737_Ebooks.tar
yappy 2014-03-22 -99	63 MB/s	1326 MB/s	325071872	180723487	55.59	Star_Trek_-_737_Ebooks.tar
1zf 3.6 -1	198 MB/s	427 MB/s	325071872	181765316	55.92	Star_Trek_-_737_Ebooks.tar
density 0.14.2 -1	1203 MB/s	1552 MB/s	325071872	183443270	56.43	Star_Trek_-_737_Ebooks.tar
fastlz 1.0 -1	202 MB/s	337 MB/s	325071872	185195589	56.97	Star_Trek_-_737_Ebooks.tar
slz_deflate 1.0.0 -3	157 MB/s	216 MB/s	325071872	188488132	57.98	Star_Trek_-_737_Ebooks.tar
slz_gzip 1.0.0 -3	145 MB/s	199 MB/s	325071872	188488138	57.98	Star_Trek_-_737_Ebooks.tar
slz_zlib 1.0.0 -3	140 MB/s	183 MB/s	325071872	188488150	57.98	Star_Trek_-_737_Ebooks.tar
slz_zlib 1.0.0 -3	140 MB/s	183 MB/s	325071872	188488150	57.98	Star_Trek_-_737_Ebooks.tar
snappy 2019-09-30	168 MB/s	733 MB/s	325071872	193857636	59.64	Star_Trek_-_737_Ebooks.tar
1z4 1.9.2	316 MB/s	2815 MB/s	325071872	196004425	60.30	Star_Trek_-_737_Ebooks.tar
1z4 1.9.2	322 MB/s	2816 MB/s	325071872	196004425	60.30	Star_Trek_-_737_Ebooks.tar
tornado 0.6a -1	154 MB/s	230 MB/s	325071872	202246765	62.22	Star_Trek_-_737_Ebooks.tar
wflz 2015-09-16	146 MB/s	457 MB/s	325071872	223346301	68.71	Star_Trek_-_737_Ebooks.tar
1zjb 2010	159 MB/s	279 MB/s	325071872	242868124	74.71	Star_Trek_-_737_Ebooks.tar
blosclz 2.0.0 -9	183 MB/s	357 MB/s	325071872	255159762	78.49	Star_Trek_-_737_Ebooks.tar
shrinker 1.0	259 MB/s	2619 MB/s	325071872	299986004	92.28	Star_Trek_-_737_Ebooks.tar
blosclz 2.0.0 -1	7567 MB/s	7817 MB/s	325071872	325071872	100.00	Star_Trek_-_737_Ebooks.tar
memcpy	11579 MB/s	10219 MB/s	325071872	325071872	100.00	Star_Trek_-_737_Ebooks.tar

D:\TEXTORAMIC_part\timer64 zstd-v1.4.4-win64.exe -b1 -e22 --fast=22 --
threads=64 --priority=rt --no-check -i9 "Star_Trek_-_737_Ebooks.tar"

-22#-737_Ebooks.tar	325071872	->	276788955	(1.174), 1255.7 MB/s	1747.4 MB/s
-21#-737_Ebooks.tar	325071872	->	274836393	(1.183), 1243.1 MB/s	1711.7 MB/s
-20#-737_Ebooks.tar	325071872	->	272745168	(1.192), 1158.4 MB/s	1655.0 MB/s
-19#-737_Ebooks.tar	325071872	->	270530748	(1.202), 1137.1 MB/s	1610.9 MB/s
-18#-737_Ebooks.tar	325071872	->	268119772	(1.212), 1126.1 MB/s	1560.5 MB/s
-17#-737_Ebooks.tar	325071872	->	265480102	(1.224), 1148.3 MB/s	1509.4 MB/s
-16#-737_Ebooks.tar	325071872	->	262812428	(1.237), 1068.7 MB/s	1459.7 MB/s
-15#-737_Ebooks.tar	325071872	->	259782955	(1.251), 1070.4 MB/s	1451.2 MB/s
-14#-737_Ebooks.tar	325071872	->	256187082	(1.269), 992.7 MB/s	1470.0 MB/s
-13#-737_Ebooks.tar	325071872	->	252564405	(1.287), 969.0 MB/s	1465.5 MB/s
-12#-737_Ebooks.tar	325071872	->	248370192	(1.309), 943.9 MB/s	1412.4 MB/s
-11#-737_Ebooks.tar	325071872	->	243897608	(1.333), 906.2 MB/s	1369.2 MB/s
-10#-737_Ebooks.tar	325071872	->	239062614	(1.360), 859.1 MB/s	1311.4 MB/s
-9#-737_Ebooks.tar	325071872	->	233804333	(1.390), 835.6 MB/s	1249.6 MB/s
-8#-737_Ebooks.tar	325071872	->	228526446	(1.422), 794.2 MB/s	1197.1 MB/s
-7#-737_Ebooks.tar	325071872	->	223095933	(1.457), 771.4 MB/s	1145.4 MB/s
-6#-737_Ebooks.tar	325071872	->	217015101	(1.498), 720.5 MB/s	1155.8 MB/s
-5#-737_Ebooks.tar	325071872	->	209118691	(1.554), 688.4 MB/s	1086.4 MB/s
-4#-737_Ebooks.tar	325071872	->	199363722	(1.631), 644.8 MB/s	1036.9 MB/s
-3#-737_Ebooks.tar	325071872	->	189443993	(1.716), 593.6 MB/s	969.3 MB/s
-2#-737_Ebooks.tar	325071872	->	180891404	(1.797), 565.3 MB/s	933.3 MB/s
-1#-737_Ebooks.tar	325071872	->	173484072	(1.874), 523.3 MB/s	894.3 MB/s
0#-737_Ebooks.tar	325071872	->	112226627	(2.897), 166.3 MB/s	592.0 MB/s
1#-737_Ebooks.tar	325071872	->	130098262	(2.499), 477.5 MB/s	750.1 MB/s
2#-737_Ebooks.tar	325071872	->	118775915	(2.737), 317.3 MB/s	603.3 MB/s
3#-737_Ebooks.tar	325071872	->	112226627	(2.897), 163.6 MB/s	592.4 MB/s
4#-737_Ebooks.tar	325071872	->	110150480	(2.951), 127.4 MB/s	583.8 MB/s
5#-737_Ebooks.tar	325071872	->	110772939	(2.935), 81.5 MB/s	553.1 MB/s
6#-737_Ebooks.tar	325071872	->	107498745	(3.024), 54.0 MB/s	579.5 MB/s
7#-737_Ebooks.tar	325071872	->	103614927	(3.137), 36.8 MB/s	624.1 MB/s
8#-737_Ebooks.tar	325071872	->	102136544	(3.183), 28.7 MB/s	653.6 MB/s
9#-737_Ebooks.tar	325071872	->	100444555	(3.236), 18.8 MB/s	670.4 MB/s
10#-737_Ebooks.tar	325071872	->	99010269	(3.283), 15.8 MB/s	646.0 MB/s
11#-737_Ebooks.tar	325071872	->	98279873	(3.308), 13.9 MB/s	622.4 MB/s
12#-737_Ebooks.tar	325071872	->	96670194	(3.363), 8.03 MB/s	627.7 MB/s

Satanichi_GCC730_64bit.exe 94139165 791 MB/s

13#-737_Ebooks.tar	325071872	->	94004743	(3.458), 8.14 MB/s	669.5 MB/s
14#-737_Ebooks.tar	325071872	->	92151337	(3.528), 6.81 MB/s	570.4 MB/s
15#-737_Ebooks.tar	325071872	->	90910595	(3.576), 5.54 MB/s	502.4 MB/s
16#-737_Ebooks.tar	325071872	->	86658156	(3.751), 5.71 MB/s	633.6 MB/s
17#-737_Ebooks.tar	325071872	->	84599461	(3.842), 4.26 MB/s	533.8 MB/s
18#-737_Ebooks.tar	325071872	->	83429869	(3.896), 3.58 MB/s	450.1 MB/s
19#-737_Ebooks.tar	325071872	->	82205725	(3.954), 3.04 MB/s	403.6 MB/s
20#-737_Ebooks.tar	325071872	->	78581822	(4.137), 2.19 MB/s	570.4 MB/s
21#-737_Ebooks.tar	325071872	->	76676496	(4.240), 1.48 MB/s	567.1 MB/s
22#-737_Ebooks.tar	325071872	->	74898542	(4.340), 0.98 MB/s	563.7 MB/s

Command Line: Satanichi_GCC730_64bit.exe %1 %1.Nakamichi 24 40123 e

Compress Speed: 325,071,872 Bytes / 424,801 Seconds = 765 B/s

RAM needed to house B-trees: 55N = 17,265MB

Testmachine: i5-7200U 3.1GHz, 8GB DDR4 2x1066MHz

SSD model: Samsung 860 EVO 500GB

SSD Controller: Samsung PMLC30

SSD NAND: 64-layer 3bit M88

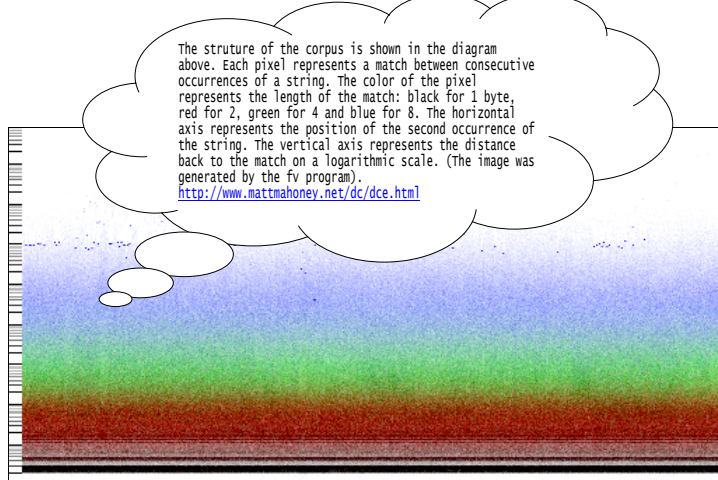
SSD CACHE DRAM: (LPDDR4-1866) 512 MB

Speedup: If 18GB Physical RAM are available then you can put those B-trees into

Fastest/System RAM by using 'i' option instead of 'e', Internal vs External, that is.



Nakamichi 'DragonEye' LITE a.k.a. Satanichi highlights:



Corpus Name	Corpus Size Compressed Size	Global Time Process Time	Virtual Physical Memory	Command Line Testmachine
book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar	832,290,816 bytes 121,901,323 bytes	1,282,007s 248,676s	9,601 MB 9,552 MB	Satanichi_GCC730_64bit.exe %*1% %*1.Nakamichi% 26 80000 e 17-3630QM 3.4GHz, 16Gb DDR3 2x800MHz, SSD 256Gb Samsung 860 PRO (2bit MLC, LPDDR4-1866 512 MB)
book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar	832,290,816 bytes 121,901,323 bytes	260s 260s	5,387 MB 3,922 MB	"zpaq_v7.05_x64.exe" add %*1.method211.zpaq% %*1% -method 211 -threads 1 17-3630QM 3.4GHz, 16Gb DDR3 2x800MHz, SSD 256Gb Samsung 860 PRO (2bit MLC, LPDDR4-1866 512 MB)
book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar	832,290,816 bytes 87,527,794 bytes	1,845s 1,845s	11,177 MB 6,937 MB	"zpaq_v7.05_x64.exe" add %*1.method511.zpaq% %*1% -method 511 -threads 1 17-3630QM 3.4GHz, 16Gb DDR3 2x800MHz, SSD 256Gb Samsung 860 PRO (2bit MLC, LPDDR4-1866 512 MB)
book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar	832,290,816 bytes 101,121,392 bytes	650s 645s	9,006 MB 8,990 MB	zstd-v1.4-win64.exe --single-thread --ultra -22 --zstd-wlog=31,clog=30,hlog=30,slog=26 %*1% -o %*1.L22w2GB.zst" 17-3630QM 3.4GHz, 16Gb DDR3 2x800MHz, SSD 256Gb Samsung 860 PRO (2bit MLC, LPDDR4-1866 512 MB)
book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar	832,290,816 bytes 76,516,343 bytes	92s 91s	5,651 MB 4,127 MB	bwturbo -59 -t0 -bi024 %*1% %*1.zv" 17-3630QM 3.4GHz, 16Gb DDR3 2x800MHz, SSD 256Gb Samsung 860 PRO (2bit MLC, LPDDR4-1866 512 MB)
book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar	832,290,816 bytes 82,503,337 bytes	2,764s 3,469s	9,531 MB 6,400 MB	rz.exe a -d 1023M %*1.rz% %*1% 17-3630QM 3.4GHz, 16Gb DDR3 2x800MHz, SSD 256Gb Samsung 860 PRO (2bit MLC, LPDDR4-1866 512 MB)
book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar	832,290,816 bytes 97,805,186 bytes	672s 880s	10,781 MB 8,178 MB	"7za_x64.v1900.exe" a -t7z -mx9 -md=30 %*1.Mx9dict1024.7z% %*1% 17-3630QM 3.4GHz, 16Gb DDR3 2x800MHz, SSD 256Gb Samsung 860 PRO (2bit MLC, LPDDR4-1866 512 MB)
book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar	832,290,816 bytes 154,632,025 bytes	775s 775s	1,420 MB 1,360 MB	bcrush_ICL150_64bit.exe --optimal %*1% %*1.optimal.bcrush" 17-3630QM 3.4GHz, 16Gb DDR3 2x800MHz, SSD 256Gb Samsung 860 PRO (2bit MLC, LPDDR4-1866 512 MB)
book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar	832,290,816 bytes 166,179,937 bytes	396s 396s	851 MB 852 MB	crush_xezz.exe -9 %*1% %*1.9.crush_xezz" 17-3630QM 3.4GHz, 16Gb DDR3 2x800MHz, SSD 256Gb Samsung 860 PRO (2bit MLC, LPDDR4-1866 512 MB)
book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar	832,290,816 bytes 131,370,690 bytes	221,703s 221,699s	45,402 MB 16,383 MB	BriefLZ_130_Intel_v19_64bit.exe --optimal -b2g %*1% %*1.b1z" 17-3630QM 3.4GHz, 16Gb DDR3 2x800MHz, SSD 256Gb Samsung 860 PRO (2bit MLC, LPDDR4-1866 512 MB)
book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar	832,290,816 bytes 99,152,526 bytes	2,105s 2,105s	10,338 MB 6,094 MB	brotlific9.exe -q 11 --large-window=30 %*1% -o %*1.bro" 17-3630QM 3.4GHz, 16Gb DDR3 2x800MHz, SSD 256Gb Samsung 860 PRO (2bit MLC, LPDDR4-1866 512 MB)

D:\TEXTORAMIC_part\turbobench_v18.05_-_build_04_May_2018" ""book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar"" -
esnappy.c/yappy/bzip2/lzma,9d30:fb273:mf=bt4/oodle,89,91,95,99,111,115,119,129,139/lturbo,19,12,10,29,22,20,39,32,30,59/brotli,11d30/zstd,1,5,22d30/lizard,11,19,21,29,31,39,41,49/trle -i3 -j31 -k1 -B2G

C Size	ratio%	C MB/s	D MB/s	Name	File
86229509	10.4	4.35	28.08	lturbo 59	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
97744466	11.7	0.86	148.98	lzma 9d30:fb273:mf=bt4	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
97853381	11.8	0.07	940.83	lturbo 39	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
99153037	11.9	0.40	358.11	brotli 11d30	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
101289846	12.2	1.28	813.45	zstd 22d30	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
104062328	12.5	0.18	736.02	oodle 139 'Leviathan'	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
104380801	12.5	0.23	789.25	oodle 89 'Kraken'	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
104402322	12.5	0.17	784.01	oodle 129 'Hydra'	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
110920918	13.3	0.07	1409.53	lturbo 29	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
126495932	15.2	0.26	1532.43	oodle 99 'Mermaid'	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
131370690				BriefLZ_130_Intel_v19_64bit --optimal -b2g	
134883367	16.2	1.39	1004.33	lizard 49	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
136202664	16.4	0.49	1838.40	oodle 95 'Mermaid'	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
145658827	17.5	10.54	24.71	bzip2	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
148673910	17.9	0.27	2484.08	oodle 119 'Selkie'	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
148929102	17.9	52.47	1202.12	lturbo 32	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
149041296			1124	Satanichi_GCC730_64bit.exe	! outside turbobench !
158150115	19.0	0.53	2004.32	oodle 115 'Selkie'	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
158642655	19.1	1.41	1241.57	lizard 29	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
209834825	25.2	3.95	1696.33	lizard 39	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
224390328	27.0	83.35	679.06	zstd 5	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
231399459	27.8	48.79	1392.72	lturbo 22	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
233761178	28.1	277.87	1009.25	lturbo 30	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
247855856	29.8	0.07	3179.57	lturbo 19	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
248001311	29.8	4.37	2362.27	lizard 19	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
253908003	30.5	196.22	2479.17	oodle 91 'Mermaid'	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
255405020	30.7	129.25	1102.80	lizard 41	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
257953411	31.0	166.80	767.78	zstd 1	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
277477721	33.3	64.90	3352.01	lturbo 12	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
310381374	37.3	142.54	1659.84	lizard 21	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
315336790	37.9	154.72	1350.42	lizard 31	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
326323817	39.2	60.69	1804.80	yappy	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
343518192	41.3	408.19	1659.96	lturbo 20	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
381026902	45.8	235.37	2868.88	oodle 111 'Selkie'	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
387848548	46.6	182.29	2414.03	lizard 11	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
423797463	50.9	326.63	1653.17	snappy.c	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
478153400	57.5	378.77	2116.37	lturbo 10	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar
830022523	99.7	196.24	2016.97	trle	book_serie_SPETSNAZ_(981 UTF-8 novels_Russian).tar

Notes:

- Latest available 'oo2core_6_win64.d11' was used;
- Oodle Compressors: Kraken = 8 (Default); Leviathan = 13 (Best); Mermaid = 9 (Crazy fast); Selkie = 11 (Fastest); Hydra = 12 (Tuneable complete of above);
- Oodle Levels: HyperFast = -4,-1; None = 0; SuperFast = 1; VeryFast = 2; Fast = 3; Normal = 4; Optimal1,2,3,4 = 5,6,7,8;
- The tweak value spacespeedtradeoff=[64..1024] "tweak size vs decode time" has not been played with!
- If you wanna see more performers/options, write me to sanmayce@sanmayce.com, will try to add them.

♦ Home of lzbench: <https://github.com/nikpek/lzbench> ♦ Home of TurboBench: <https://github.com/powturbo/TurboBench> ♦ page - 76 -

♦ Home of The-Eye-of-the-Dragon: <http://www.sanmayce.com/Nakamichi/> The B-tree boosted variant: <https://community.centminmod.com/posts/80053/>

♦ Testmachine: Laptop 'Compressionette' Lenovo Ideapad 310; i5-7200u @2.5GHz; 8GB DDR4 (2133MHz) CL15 CR2T; L2 cache: 2x256KB; L3 cache: 3MB

♦ Starfox - Kaze's Superfast Decompression Textual Showdown; update: 2020-Apr-06; tester: Kaze, <https://twitter.com/Sanmayce> plus <http://www.satanichi.net/index.html>

TurboBench v18.05 Copyright (c) 2013-2018 Powturbo 04 May 2018

Latest available oodle was used:
1,085,952 bytes oo2core_6_win64.d11

SPEED BRUTALITY:

LzTurbo 29 is in its own class -
smokes all - WITHOUT ENTROPY CODING
on top of that!

LzTurbo 39 is 940/148=6.35x faster
than LZMA!

D:\TEXTORAMIC_part\lzbenc18 -c4 -i1,15 -o3 -
 elzham,4/slz_deflate,3/slz_gzip,3/slz_zlib,3/tornado,1.16/bzip2,1.9/zstd,1.22/zstdLDM,1.22/fastlzma2,1.10/brotli,0.1,3.5,11/blosclz,1.9/crush,2/csc,5/density,1.3/fastlz,2/gipfeli/zlib,999/libdeflate
 e,1.12/lz4,1.12/lizard,11,19,21,29,31,39,41,49/lzf,1/lzfse/lzg,9/lzjb/lzlib,9/lzma,0,1,9/lzrw,5/lzss2,17/lzss4,17/lzss8,17/lzvn/pithy,9/quicklz,3/snappy/slz_zlib,3/ucl_nrv2b,9/ucl_nrv2d,9/ucl_nrv
 2e,9/xpack,1.9/xz,9/yalz77,12/yappy,99/zlib,1,5,9/zling,4/shrinker/wflz/lzmat ""book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar""

lzbenc 1.8 (64-bit windows) Assembled by P.Skibinski

The results sorted by column number 4:

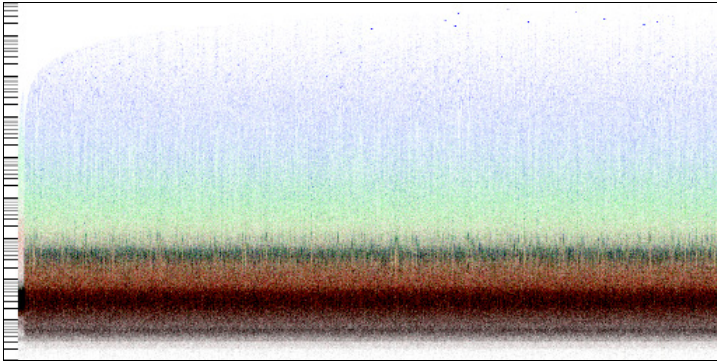
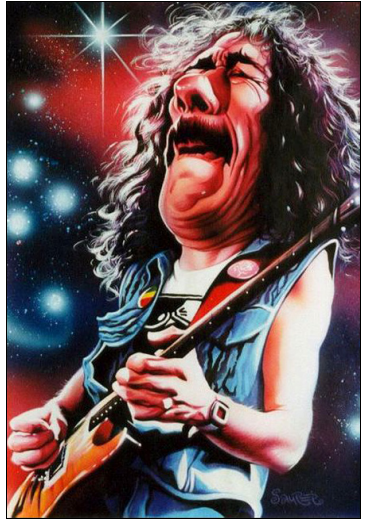
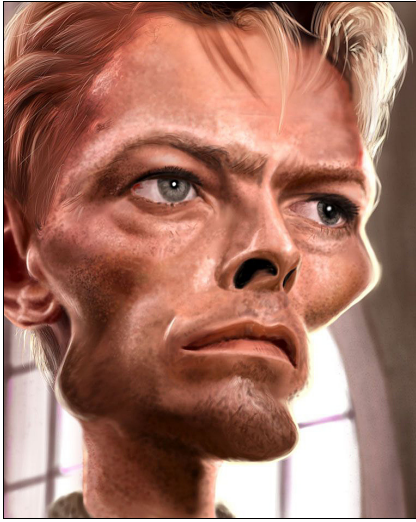
Compressor name	Compress.	Decompress.	Orig. size	Compr. size	Ratio	Filename
zstd 1.4.3 -22	1.36 MB/s	892 MB/s	832290816	106285862	12.77	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
zstdLDM 1.4.3 -22	1.37 MB/s	893 MB/s	832290816	106556756	12.80	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
xz 5.2.4 -9	1.13 MB/s	140 MB/s	832290816	107796983	12.95	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lzma 19.00 -9	1.10 MB/s	139 MB/s	832290816	107849433	12.96	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
tornado 0.6a -16	1.48 MB/s	288 MB/s	832290816	108105061	12.99	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lzham 1.0 -d26 -4	0.80 MB/s	313 MB/s	832290816	108470968	13.03	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
fastlzma2 1.0.1 -10	2.36 MB/s	120 MB/s	832290816	112251678	13.49	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lzlib 1.11 -9	1.05 MB/s	92 MB/s	832290816	113146693	13.59	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
csc 2016-10-13 -5	1.39 MB/s	125 MB/s	832290816	116667138	14.02	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
brotli 2019-10-01 -11	0.45 MB/s	551 MB/s	832290816	132070667	15.87	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lizard 1.0 -49	1.50 MB/s	1044 MB/s	832290816	134883363	16.21	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
bzip2 1.0.8 -9	10 MB/s	26 MB/s	832290816	145658823	17.50	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar

Satanichi_GCC730_64bit.exe 1124 MB/s 149041296 ! outside lzbenc !

lizard 1.0 -29	1.55 MB/s	1312 MB/s	832290816	158642651	19.06	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
crush 1.0 -2	0.21 MB/s	407 MB/s	832290816	167891024	20.17	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
zling 2018-10-12 -4	31 MB/s	194 MB/s	832290816	172424277	20.72	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
bzip2 1.0.8 -1	11 MB/s	39 MB/s	832290816	176759512	21.35	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
brotli 2019-10-01 -5	28 MB/s	523 MB/s	832290816	179403587	21.56	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
xpack 2016-06-02 -9	4.38 MB/s	948 MB/s	832290816	207604165	24.94	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lizard 1.0 -39	4.31 MB/s	1832 MB/s	832290816	209834821	25.21	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
libdeflate 1.3 -12	3.67 MB/s	1038 MB/s	832290816	213213594	25.62	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lzss2 2019-04-18 -17	2.43 MB/s	3926 MB/s	832290816	216869808	26.06	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lzss4 2019-04-18 -17	2.53 MB/s	3909 MB/s	832290816	217770793	26.17	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
brotli 2019-10-01 -3	78 MB/s	436 MB/s	832290816	219485981	26.37	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lzss8 2019-04-18 -17	2.45 MB/s	3527 MB/s	832290816	224389638	26.96	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
zlib 1.2.11 -9	4.17 MB/s	299 MB/s	832290816	227825566	27.37	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
fastlzma2 1.0.1 -1	13 MB/s	60 MB/s	832290816	232444725	27.93	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lzma 19.00 -1	16 MB/s	62 MB/s	832290816	233717316	28.08	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
yalz77 2015-09-19 -12	30 MB/s	376 MB/s	832290816	237645327	28.55	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
ucl_nrv2e 1.03 -9	0.36 MB/s	311 MB/s	832290816	243105097	29.21	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lzma 19.00 -2	17 MB/s	57 MB/s	832290816	244108780	29.33	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
ucl_nrv2d 1.03 -9	0.30 MB/s	315 MB/s	832290816	245933936	29.55	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lzob 2.10 -999	4.20 MB/s	578 MB/s	832290816	246693493	29.64	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lizard 1.0 -19	4.35 MB/s	2617 MB/s	832290816	248001307	29.80	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
zlib 1.2.11 -5	21 MB/s	275 MB/s	832290816	251891158	30.26	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
ucl_nrv2b 1.03 -9	0.34 MB/s	300 MB/s	832290816	252275771	30.31	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lzg 1.0.10 -9	0.18 MB/s	663 MB/s	832290816	254874747	30.62	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lizard 1.0 -41	152 MB/s	1148 MB/s	832290816	255405016	30.69	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
zstdLDM 1.4.3 -1	134 MB/s	413 MB/s	832290816	257066314	30.89	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
zstd 1.4.3 -1	210 MB/s	413 MB/s	832290816	257209725	30.90	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lzfse 2017-03-08	50 MB/s	531 MB/s	832290816	259743898	31.21	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
brotli 2019-10-01 -1	174 MB/s	356 MB/s	832290816	266460227	32.02	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lzmat 1.01	11 MB/s	299 MB/s	832290816	266952375	32.07	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
libdeflate 1.3 -1	135 MB/s	756 MB/s	832290816	285713451	34.33	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
brotli 2019-10-01 -0	217 MB/s	343 MB/s	832290816	287973706	34.60	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
xpack 2016-06-02 -1	119 MB/s	499 MB/s	832290816	298137386	35.82	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lizard 1.0 -21	176 MB/s	1742 MB/s	832290816	310381370	37.29	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lizard 1.0 -31	198 MB/s	1459 MB/s	832290816	315336786	37.89	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
zlib 1.2.11 -1	66 MB/s	244 MB/s	832290816	321781027	38.66	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
yappy 2014-03-22 -99	55 MB/s	1887 MB/s	832290816	322920818	38.80	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lzvn 2017-03-08	39 MB/s	773 MB/s	832290816	331212729	39.12	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
pithy 2011-12-24 -9	289 MB/s	1437 MB/s	832290816	338709477	40.1	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
gipfeli 2016-07-13	231 MB/s	444 MB/s	832290816	344610201	41.1	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lzrw 15-Jul-1991 -5	87 MB/s	405 MB/s	832290816	346324028	41.1	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
quicklz 1.5.0 -3	36 MB/s	557 MB/s	832290816	348569403	41.1	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
density 0.14.2 -3	420 MB/s	380 MB/s	832290816	370942860	44.1	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lizard 1.0 -11	245 MB/s	2063 MB/s	832290816	387848544	46.1	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lz4 1.9.2	310 MB/s	2283 MB/s	832290816	408975647	49.1	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lz4 1.9.2	309 MB/s	2282 MB/s	832290816	408975647	49.1	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
snappy 2019-09-30	193 MB/s	829 MB/s	832290816	423828918	50.1	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
tornado 0.6a -1	220 MB/s	269 MB/s	832290816	435175239	52.1	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
fastlz 0.1 -2	246 MB/s	385 MB/s	832290816	436415456	52.1	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lzf 3.6 -1	229 MB/s	470 MB/s	832290816	443098437	53.1	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
density 0.14.2 -1	1714 MB/s	1809 MB/s	832290816	445806192	53.1	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
slz_deflate 1.0.0 -3	203 MB/s	244 MB/s	832290816	453783256	54.52	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
slz_gzip 1.0.0 -3	184 MB/s	223 MB/s	832290816	453783262	54.52	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
slz_zlib 1.0.0 -3	169 MB/s	203 MB/s	832290816	453783274	54.52	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
slz_zlib 1.0.0 -3	175 MB/s	203 MB/s	832290816	453783274	54.52	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
blosclz 2.0.0 -9	215 MB/s	360 MB/s	832290816	497813982	59.81	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
lzjb 2010	174 MB/s	285 MB/s	832290816	539617346	64.84	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
wflz 2015-09-16	185 MB/s	463 MB/s	832290816	557630036	67.00	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
shrinker 0.1	228 MB/s	6557 MB/s	832290816	820229674	98.55	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
blosclz 2.0.0 -1	7352 MB/s	7534 MB/s	832290816	832290816	100.00	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar
memcpy	10742 MB/s	11009 MB/s	832290816	832290816	100.00	book_serie_SPETSNAZ_(981_UTF-8_novels_Russian).tar

D:\TEXTORAMIC_part\timer64 zstd-v1.4.4-win64.exe -b1 -e22 --fast=22 --
 threads=64 --priority=rt --no-check -i9 ""book_serie_SPETSNAZ_(981_UTF-
 8_novels_Russian).tar""

-22vels_Russian).tar	832290816	→	509886974	(1.632),	802.4 MB/s,	1010.1 MB/s
-21vels_Russian).tar	832290816	→	502903191	(1.655),	787.1 MB/s,	989.7 MB/s
-20vels_Russian).tar	832290816	→	496032296	(1.678),	765.7 MB/s,	972.2 MB/s
-19vels_Russian).tar	832290816	→	488694143	(1.703),	749.4 MB/s,	954.4 MB/s
-18vels_Russian).tar	832290816	→	480891337	(1.731),	740.3 MB/s,	938.1 MB/s
-17vels_Russian).tar	832290816	→	473063252	(1.759),	728.2 MB/s,	924.2 MB/s
-16vels_Russian).tar	832290816	→	464904398	(1.790),	711.7 MB/s,	903.5 MB/s
-15vels_Russian).tar	832290816	→	456549869	(1.823),	704.3 MB/s,	897.3 MB/s
-14vels_Russian).tar	832290816	→	447233807	(1.861),	677.3 MB/s,	923.2 MB/s
-13vels_Russian).tar	832290816	→	438301181	(1.899),	678.8 MB/s,	935.3 MB/s
-12vels_Russian).tar	832290816	→	428480513	(1.942),	658.5 MB/s,	911.8 MB/s
-11vels_Russian).tar	832290816	→	418568051	(1.988),	645.4 MB/s,	894.8 MB/s
-10vels_Russian).tar	832290816	→	407886620	(2.040),	634.2 MB/s,	873.7 MB/s
-9vels_Russian).tar	832290816	→	397146812	(2.096),	618.6 MB/s,	854.6 MB/s
-8vels_Russian).tar	832290816	→	386366696	(2.154),	610.1 MB/s,	834.0 MB/s
-7vels_Russian).tar	832290816	→	375484338	(2.217),	592.7 MB/s,	814.7 MB/s
-6vels_Russian).tar	832290816	→	363569544	(2.289),	583.4 MB/s,	811.7 MB/s
-5vels_Russian).tar	832290816	→	350684314	(2.373),	562.9 MB/s,	790.8 MB/s
-4vels_Russian).tar	832290816	→	337792003	(2.464),	549.3 MB/s,	773.3 MB/s
-3vels_Russian).tar	832290816	→	325660472	(2.556),	539.0 MB/s,	757.2 MB/s
-2vels_Russian).tar	832290816	→	313785478	(2.652),	517.3 MB/s,	739.7 MB/s
-1vels_Russian).tar	832290816	→	301794070	(2.758),	510.3 MB/s,	723.4 MB/s
0vels_Russian).tar	832290816	→	205802074	(4.044),	286.8 MB/s,	778.2 MB/s
1vels_Russian).tar	832290816	→	257288673	(3.235),	502.9 MB/s,	773.1 MB/s
2vels_Russian).tar	832290816	→	241342696	(3.449),	492.2 MB/s,	654.9 MB/s
3vels_Russian).tar	832290816	→	205802074	(4.044),	289.9 MB/s,	777.9 MB/s
4vels_Russian).tar	832290816	→	203989910	(4.080),	236.7 MB/s,	773.5 MB/s
5vels_Russian).tar	832290816	→	209656268	(3.970),	148.5 MB/s,	713.7 MB/s
6vels_Russian).tar	832290816	→	199629274	(4.169),	97.0 MB/s,	770.5 MB/s
7vels_Russian).tar	832290816	→	190527277	(4.368),	67.5 MB/s,	854.2 MB/s
8vels_Russian).tar	832290816	→	186058743	(4.473),	52.0 MB/s,	904.0 MB/s
9vels_Russian).tar	832290816	→	178059931	(4.674),	29.2 MB/s,	956.8 MB/s
10vels_Russian).tar	832290816	→	174333957	(4.774),	26.9 MB/s,	954.9 MB/s
11vels_Russian).tar	832290816	→	173716010	(4.791),	24.9 MB/s,	951.7 MB/s
12vels_Russian).tar	832290816	→	166585719	(4.996),	12.5 MB/s,	976.8 MB/s
13vels_Russian).tar	832290816	→	152534474	(5.456),	7.75 MB/s,	1060.7 MB/s



The structure of the corpus is shown in the diagram above. Each pixel represents a match between consecutive occurrences of a string. The color of the pixel represents the length of the match: black for 1 byte, red for 2, green for 4 and blue for 8. The horizontal axis represents the position of the second occurrence of the string. The vertical axis represents the distance back to the match on a logarithmic scale. (The image was generated by the fv program).
<http://www.mattmahoney.net/dc/dce.html>

Corpus Name	Corpus Size Compressed Size	Global Time Process Time	Virtual Memory Physical Memory	Command Line Testmachine
Machine-Learning_... (over_500000_song_lyrics).tar	630,339,584 bytes 155,402,007 bytes	1,185,386s 58,847s	3,636 MB 3,029 MB	Satanichi_GCC730_64bit.exe "%1" "%1.Nakamichi" 24 99000 e i5-7200U 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Machine-Learning_... (over_500000_song_lyrics).tar	630,339,584 bytes 125,295,629 bytes	193s 193s	5,144 MB 3,619 MB	"zpaq_v7.05_x64.exe" add "%1.method211.zpaq" "%1" -method 211 -threads 1 i5-7200U 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Machine-Learning_... (over_500000_song_lyrics).tar	630,339,584 bytes 86,008,152 bytes	3,036s 2,859s	11,698 MB 7,174 MB	"zpaq_v7.05_x64.exe" add "%1.method511.zpaq" "%1" -method 511 -threads 1 i5-7200U 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Machine-Learning_... (over_500000_song_lyrics).tar	630,339,584 bytes 108,281,760 bytes	664s 659s	8,813 MB 7,344 MB	zstd-v1.4.4-win64.exe --single-thread --ultra -22 --zstd-wlog=31, clog=30, hlog=30, slog=26 "%1" -o "%1.L22w2GB.zst" i5-7200U 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Machine-Learning_... (over_500000_song_lyrics).tar	630,339,584 bytes 95,432,407 bytes	69s 67s	4,833 MB 3,346 MB	bwtturbo -S9 -t0 -b1024 "%1" "%1.zv" i5-7200U 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Machine-Learning_... (over_500000_song_lyrics).tar	630,339,584 bytes 91,722,624 bytes	1,839s 2,403s	7,455 MB 5,539 MB	rz.exe a -d 1023M "%1.rz" "%1" i5-7200U 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Machine-Learning_... (over_500000_song_lyrics).tar	630,339,584 bytes 103,355,628 bytes	496s 607s	8,345 MB 6,441 MB	"7za_x64.v1900.exe" a -t7z -mx9 -md=30 "%1.MX9dict1024.7z" "%1" i5-7200U 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Machine-Learning_... (over_500000_song_lyrics).tar	630,339,584 bytes 130,924,735 bytes	417s 416s	1,420 MB 1,364 MB	bcrush_ICL150_64bit.exe --optimal "%1" "%1.optimal.bcrush" i5-7200U 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Machine-Learning_... (over_500000_song_lyrics).tar	630,339,584 bytes 165,173,195 bytes	203s 203s	852 MB 851 MB	crush_xezz.exe -9 "%1" "%1.9.crush_xezz" i5-7200U 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Machine-Learning_... (over_500000_song_lyrics).tar	630,339,584 bytes 129,595,542 bytes	8,054s 8,031s	45,402 MB 7,167 MB	BriefLZ_130_Intel_v19_64bit.exe --optimal -b2g "%1" "%1.blz" i5-7200U 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Machine-Learning_... (over_500000_song_lyrics).tar	630,339,584 bytes 102,237,706 bytes	1,567s 1,567s	10,344 MB 5,398 MB	brotili_icl19.exe -q 11 --large_window=30 "%1" -o "%1.bro" i5-7200U 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)

D:\TEXTORAMIC_part\ "turbobench_v18.05 -_build_04_May_2018" ""Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar""
 esnappy_c/yappy/bzip2/lzma, 9d30:fb273:mf=bt4/oodle, 89, 91, 95, 99, 111, 115, 119, 129, 139/lzturbo, 19, 12, 10, 29, 22, 20, 39, 32, 30, 59/brotli, 11d30/zstd, 1, 5, 22d30/lizard, 11, 19, 21, 29, 31, 39, 41, 49/trle -I3 -J31 -k1 -B2G

C Size	ratio%	C MB/s	D MB/s	Name	File
102237996	16.2	0.39	264.44	brotli 11d30	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
102669101	16.3	6.54	33.42	lzturbo 59	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
103163583	16.4	0.83	108.35	lzma 9d30:fb273:mf=bt4	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
105172793	16.7	0.60	779.94	lzturbo 39	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
107805227	17.1	0.19	613.36	oodle 139 'Leviathan'	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
108042846	17.1	1.12	704.78	zstd 22d30	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
108053499	17.1	0.24	689.24	oodle 89 'Kraken'	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
108069844	17.1	0.16	690.75	oodle 129 'Hydra'	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
119598213	19.0	0.58	1133.88	lzturbo 29	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
129595542				BriefLZ_130_Intel_v19_64bit --optimal -b2g	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
129784894	20.6	41.55	756.45	lzturbo 32	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
134870724	21.4	0.34	1869.38	oodle 99 'Mermaid'	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
137326345	21.8	0.74	1874.64	oodle 95 'Mermaid'	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
152783168	24.2	1.23	939.20	lizard 49	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
155402007			942	Satanichi_GCC730_64bit.exe	! out
159111064	25.2	10.64	25.78	bzip2	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
168353489	26.7	0.36	2870.07	oodle 119 'Selkie'	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
172048724	27.3	0.80	2946.52	oodle 115 'Selkie'	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
174938936	27.8	57.94	721.46	zstd 5	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
181099450	28.7	1.30	1477.80	lizard 29	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
182005612	28.9	37.41	1109.71	lzturbo 22	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar
186023058	29.5	4.13	1651.84	lizard 39	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost (over_500000_song_lyrics).tar

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Latest available oodle was used:
 1,085,952 bytes oodcore_6_win64.d11

SPEED BRUTALITY:

LZTurbo 29 is in its own class - smokes all - WITHOUT ENTROPY CODING on top of that!

LZTurbo 39 is 779/108=7.21x faster than LZMA!

194179350	30.8	223.97	969.77	lzturbo 30
199248465	31.6	131.93	1741.08	oodle 91 'Mermaid'
199521959	31.7	277.58	914.52	zstd 1
205067730	32.5	136.22	1023.51	lizard 41
212944026	33.8	0.43	3062.50	lzturbo 19
213237124	33.8	4.66	2479.30	lizard 19
227390400	36.2	52.69	3010.22	lzturbo 12
235304781	37.3	181.33	1686.59	lizard 31
255415905	40.5	162.06	1819.06	lizard 21
261140983	41.4	215.01	2429.45	lizard 11
266282792	42.2	339.58	1086.26	lzturbo 20
266307002	42.2	148.95	3135.91	oodle 111 'Selkie'
279864603	44.4	81.24	1521.44	yappy
290977860	46.2	368.64	2673.59	lzturbo 10
299900275	47.6	333.39	946.33	snappy_c
629881032	99.9	191.84	1998.16	trle

Notes:

- Latest available 'oo2core_6_win64.dll' was used;
- **oodle** Compressors: Kraken = 8 (Default); Leviathan = 13 (Best); Mermaid = 9 (Crazy fast); Selkie = 11 (Fastest); Hydra = 12 (Tuneable composite of above);
- **oodle** Levels: HyperFast = -4, -1; None = 0; SuperFast = 1; VeryFast = 2; Fast = 3; Normal = 4; Optimal1,2,3,4 = 5,6,7,8;
- The tweak value **spacespeedtradeoff**=[64..1024] "tweak size vs decode time" has not been played with!
- If you wanna see more performers/options, write me to sanmayce@sanmayce.com, will try to add them.

Corpus '500000' benchmarked on i5-7200U 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (NAND: 64-layer 3bit MLC, cache: LPDDR4-1866 512 MB):

D:\TEXTORAMIC_part\lzbenc18 -c4 -i1,15 -o3 -elzham,4/slz_deflate,3/slz_gzip,3/slz_zlib,3/tornado,1,16/bzip2,1,9/zstd,1,22/zstdLDM,1,22/fastlzma2,1,10/brotli,0,1,3,5,11/blosclz,1,9/crush,2/csc,5/density,1,3/fastlz,2/gipfeli/1zolib,999/libdeflate,1,12/1z4,1,12/lizard,11,19,21,29,31,39,41,49/lzf,1/lzfse/lzg,9/lzjb/lzlib,9/lzma,0,1,9/lzrw,5/lzse2,17/lzse4,17/lzse8,17/lzvn/pithy,9/quicklz,3/snappy/slz_zlib,3/ucl_nrv2b,9/ucl_nrv2d,9/ucl_nrv2e,9/xpack,1,9/xz,9/yalz7,12/yappy,99/zlib,1,5,9/zling,4/shrinker/wfzl/zmat ""Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar""

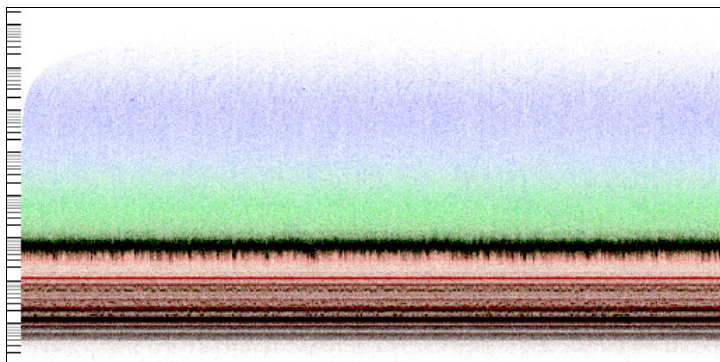
lzbenc 1.8 (64-bit windows) Assembled by P.Skibinski

The results sorted by column number 4:

Compressor name	Compress.	Decompress.	Orig. size	Compr. size	Ratio	Filename
lzm 19.00 -9	1.19 MB/s	99 MB/s	630339584	115019802	18.25	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
xz 5.2.4 -9	1.21 MB/s	94 MB/s	630339584	115020496	18.25	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
csc 2016-10-13 -5	2.70 MB/s	64 MB/s	630339584	115904942	18.39	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
zstd 1.4.3 -22	1.03 MB/s	675 MB/s	630339584	116108562	18.42	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
tornado 0.6a -16	1.40 MB/s	209 MB/s	630339584	116657946	18.51	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lzham 1.0 -d26 -4	0.84 MB/s	222 MB/s	630339584	116724512	18.52	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
fastlzma2 1.0.1 -10	2.29 MB/s	89 MB/s	630339584	117172953	18.59	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
zstdLDM 1.4.3 -22	1.07 MB/s	673 MB/s	630339584	117382083	18.62	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lzlib 1.11 -9	1.05 MB/s	69 MB/s	630339584	119213183	18.91	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
brotli 2019-10-01 -11	0.45 MB/s	369 MB/s	630339584	133801391	21.23	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
zling 2018-10-12 -4	33 MB/s	168 MB/s	630339584	149896637	23.78	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lizard 1.0 -4-9	1.20 MB/s	935 MB/s	630339584	152783164	24.24	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
Satanichi_GCC730_64bit.exe	942 MB/s		155402007			! outside lzbenc !
brotli 2019-10-01 -5	25 MB/s	397 MB/s	630339584	159025077	25.23	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
bzip2 1.0.8 -9	10 MB/s	26 MB/s	630339584	159111060	25.24	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
crush 1.0 -2	0.24 MB/s	311 MB/s	630339584	159884165	25.36	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
fastlzma2 1.0.1 -1	12 MB/s	63 MB/s	630339584	169549257	26.90	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
xpack 2016-06-02 -9	8.15 MB/s	868 MB/s	630339584	17189474	27.25	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
libdeflate 1.3 -12	5.88 MB/s	687 MB/s	630339584	174665802	27.71	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
bzip2 1.0.8 -1	11 MB/s	34 MB/s	630339584	176353273	27.98	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lzm 19.00 -1	19 MB/s	61 MB/s	630339584	177675597	28.19	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
brotli 2019-10-01 -3	75 MB/s	380 MB/s	630339584	180750423	28.68	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lizard 1.0 -2-9	1.27 MB/s	1479 MB/s	630339584	181099446	28.73	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lzfse 2017-03-08	49 MB/s	647 MB/s	630339584	182618202	28.97	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
zlib 1.2.11 -9	14 MB/s	279 MB/s	630339584	182978127	29.03	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lizard 1.0 -3-9	3.87 MB/s	1735 MB/s	630339584	186023054	29.51	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
zlib 1.2.11 -5	28 MB/s	273 MB/s	630339584	186950753	29.66	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lzm 19.00 -0	22 MB/s	54 MB/s	630339584	188157873	29.85	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
ucl_nrv2e 1.03 -9	0.97 MB/s	269 MB/s	630339584	192253614	30.50	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
brotli 2019-10-01 -1	159 MB/s	339 MB/s	630339584	193676957	30.73	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
ucl_nrv2d 1.03 -9	0.94 MB/s	275 MB/s	630339584	194174184	30.80	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lzse2 2019-04-18 -17	2.76 MB/s	2836 MB/s	630339584	194627075	30.88	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lzse4 2019-04-18 -17	2.80 MB/s	3205 MB/s	630339584	196223860	31.13	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
zstdLDM 1.4.3 -1	155 MB/s	570 MB/s	630339584	197357493	31.31	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lzse8 2019-04-18 -17	2.75 MB/s	3142 MB/s	630339584	197510652	31.33	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
ucl_nrv2b 1.03 -9	1.06 MB/s	267 MB/s	630339584	198130244	31.43	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
zstd 1.4.3 -1	278 MB/s	563 MB/s	630339584	199130517	31.59	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
xpack 2016-06-02 -1	131 MB/s	648 MB/s	630339584	200250214	31.77	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
libdeflate 1.3 -1	142 MB/s	755 MB/s	630339584	200440695	31.80	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lizard 1.0 -41	136 MB/s	1046 MB/s	630339584	205067726	32.53	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
1zolib 2.10 -999	10 MB/s	506 MB/s	630339584	206761274	32.80	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
brotli 2019-10-01 -0	214 MB/s	316 MB/s	630339584	207643666	32.94	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lzm 1.01	31 MB/s	270 MB/s	630339584	211176426	33.50	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lizard 1.0 -19	4.14 MB/s	2623 MB/s	630339584	213237120	33.83	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
zlib 1.2.11 -1	78 MB/s	277 MB/s	630339584	215765399	34.23	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
yalz7 2015-09-19 -12	20 MB/s	289 MB/s	630339584	222530955	35.30	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lzg 1.0.10 -9	0.59 MB/s	485 MB/s	630339584	227738922	36.13	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lzvn 2017-03-08	41 MB/s	790 MB/s	630339584	230181093	36.52	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
quicklz 1.5.0 -3	44 MB/s	682 MB/s	630339584	235091903	37.30	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
lizard 1.0 -31	182 MB/s	1769 MB/s	630339584	235304777	37.33	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
gipfeli 2016-07-13	215 MB/s	385 MB/s	630339584	236217347	37.47	Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar
pithy 2011-12-24 -9	245 MB/s	1344 MB/s	630339584	249961466		
lizard 1.0 -21	161 MB/s	1825 MB/s	630339584	255415901		
lizard 1.0 -11	214 MB/s	2575 MB/s	630339584	261140979		
lzrw 15-Jul-1991 -5	100 MB/s	382 MB/s	630339584	266188186		
fastlz 0.1 -2	249 MB/s	421 MB/s	630339584	273296035		
lzf 3.6 -1	244 MB/s	513 MB/s	630339584	273507057		
density 0.14.2 -3	319 MB/s	313 MB/s	630339584	276123004		
yappy 2014-03-22 -99	76 MB/s	1580 MB/s	630339584	278881061		
slz_deflate 1.0.0 -3	198 MB/s	275 MB/s	630339584	281261549		
slz_gzip 1.0.0 -3	180 MB/s	248 MB/s	630339584	281261555		
slz_zlib 1.0.0 -3	171 MB/s	224 MB/s	630339584	281261567		
slz_zlib 1.0.0 -3	171 MB/s	223 MB/s	630339584	281261567		
lz4 1.9.2	412 MB/s	2963 MB/s	630339584	289439405		
lz4 1.9.2	415 MB/s	2940 MB/s	630339584	289439405		
snappy 2019-09-30	234 MB/s	878 MB/s	630339584	299969197		
tornado 0.6a -1	207 MB/s	301 MB/s	630339584	303416172		
wfzl 2015-09-16	181 MB/s	601 MB/s	630339584	336375445		
lzjb 2010	197 MB/s	345 MB/s	630339584	359561457		
density 0.14.2 -1	1070 MB/s	1496 MB/s	630339584	363440712		
blosclz 2.0.0 -9	229 MB/s	458 MB/s	630339584	406780399		
shrinker 0.1	228 MB/s	346 MB/s	630339584	577034189		
blosclz 2.0.0 -1	7509 MB/s	7710 MB/s	630339584	630339584		
memcpy	11163 MB/s	10761 MB/s	630339584	630339584		

D:\TEXTORAMIC_part\timer64 zstd-v1.4.4-win64.exe -b1 -e22 --fast=22 --threads=64 --priority=rt --no-check -i9 ""Machine-Learning_www.kaggle.com_every-song-you-have-heard-almost_(over_500000_song_lyrics).tar""

-22song_lyrics).tar	630339584	→	437356509	(1.441), 1518.3 MB/s	2063.9 MB/s
-21song_lyrics).tar	630339584	→	432433258	(1.458), 1398.8 MB/s	1992.2 MB/s
-20song_lyrics).tar	630339584	→	427493570	(1.475), 1373.8 MB/s	1933.4 MB/s
-19song_lyrics).tar	630339584	→	422221863	(1.493), 1372.1 MB/s	1898.9 MB/s
-18song_lyrics).tar	630339584	→	416552076	(1.513), 1286.3 MB/s	1851.6 MB/s
-17song_lyrics).tar	630339584	→	410881263	(1.534), 1231.7 MB/s	1796.4 MB/s
-16song_lyrics).tar	630339584	→	405176924	(1.556), 1352.8 MB/s	1782.8 MB/s
-15song_lyrics).tar	630339584	→	399385072	(1.578), 1257.5 MB/s	1741.2 MB/s
-14song_lyrics).tar	630339584	→	392878854	(1.604), 1257.4 MB/s	1746.2 MB/s
-13song_lyrics).tar	630339584	→	386288140	(1.632), 1240.5 MB/s	1742.7 MB/s
-12song_lyrics).tar	630339584	→	378630996	(1.665), 1147.8 MB/s	1697.7 MB/s
-11song_lyrics).tar	630339584	→	370497254	(1.701), 1121.3 MB/s	1651.0 MB/s
-10song_lyrics).tar	630339584	→	361981208	(1.741), 1109.2 MB/s	1606.1 MB/s
-9song_lyrics).tar	630339584	→	353588977	(1.783), 1086.3 MB/s	1544.4 MB/s
-8song_lyrics).tar	630339584	→	345344397	(1.825), 1030.0 MB/s	1483.5 MB/s
-7song_lyrics).tar	630339584	→	337383538	(1.868), 960.1 MB/s	1421.7 MB/s
-6song_lyrics).tar	630339584	→	328211883	(1.921), 960.7 MB/s	1436.4 MB/s
-5song_lyrics).tar	630339584	→	315638855	(1.997), 918.1 MB/s	1374.8 MB/s
-4song_lyrics).tar	630339584	→	300928676	(2.095), 871.9 MB/s	1324.9 MB/s
-3song_lyrics).tar	630339584	→	286199442	(2.202), 783.5 MB/s	1242.2 MB/s
-2song_lyrics).tar	630339584	→	272566938	(2.313), 767.9 MB/s	1194.6 MB/s
-1song_lyrics).tar	630339584	→	261935004	(2.406), 720.8 MB/s	1146.3 MB/s
0song_lyrics).tar	630339584	→	177867779	(3.544), 178.7 MB/s	657.3 MB/s
1song_lyrics).tar	630339584	→	199204877	(3.164), 634.8 MB/s	922.1 MB/s



The struture of the corpus is shown in the diagram above. Each pixel represents a match between consecutive occurrences of a string. The color of the pixel represents the length of the match: black for 1 byte, red for 2, green for 4 and blue for 8. The horizontal axis represents the position of the second occurrence of the string. The vertical axis represents the distance back to the match on a logarithmic scale. (The image was generated by the fv program).

<http://www.mattmahoney.net/dc/dce.html>

Corpus Name	Corpus Size Compressed Size	Global Time Process Time	Virtual Memory Physical Memory	Command Line Testmachine
www.pgnmentor.com_242_players.tar	259,160,064 bytes 58,441,016 bytes	477,896s 21,586s	2,572 MB 2,568 MB	Satanichi_GCC730_64bit.exe "%1" "%1.Nakamichi" 24 35000 E i5-7200u 3.1Ghz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
www.pgnmentor.com_242_players.tar	259,160,064 bytes 49,101,864 bytes	193s 193s	5,144 MB 3,619 MB	"zpaq_v7.05_x64.exe" add "%1.method211.zpaq" "%1" -method 211 -threads 1 i5-7200u 3.1Ghz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
www.pgnmentor.com_242_players.tar	259,160,064 bytes 29,788,867 bytes	3,036s 2,859s	11,698 MB 7,174 MB	"zpaq_v7.05_x64.exe" add "%1.method511.zpaq" "%1" -method 511 -threads 1 i5-7200u 3.1Ghz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
www.pgnmentor.com_242_players.tar	259,160,064 bytes 41,443,028 bytes	664s 659s	8,813 MB 7,344 MB	zstd-v1.4.4-win64.exe --single-thread --ultra -22 --zstd-wlog=31,clog=30,hlog=30,slog=26 "%1" -o "%1.L22w2GB.zst" i5-7200u 3.1Ghz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
www.pgnmentor.com_242_players.tar	259,160,064 bytes 33,056,126 bytes	25s 25s	3,467 MB 2,085 MB	bwtturbo -59 -t0 -b1024 "%1" "%1.zv" i5-7200u 3.1Ghz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
www.pgnmentor.com_242_players.tar	259,160,064 bytes 34,007,484 bytes	796s 1,031s	3,008 MB 2,295 MB	rz.exe a -d 1023M "%1.rz" "%1" i5-7200u 3.1Ghz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
www.pgnmentor.com_242_players.tar	259,160,064 bytes 40,380,558 bytes	205s 255s	2,702 MB 2,491 MB	"7za_x64.v1900.exe" a -t7z -mx9 -md=30 "%1.Mx9dict1024.7z" "%1" i5-7200u 3.1Ghz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
www.pgnmentor.com_242_players.tar	259,160,064 bytes 65,630,699 bytes	181s 181s	1,420 MB 1,363 MB	bcrush_icl150_64bit.exe --optimal "%1" "%1.optimal.bcrush" i5-7200u 3.1Ghz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
www.pgnmentor.com_242_players.tar	259,160,064 bytes 68,319,734 bytes	136s 136s	852 MB 851 MB	crush_xezz.exe -9 "%1" "%1.9.crush_xezz" i5-7200u 3.1Ghz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
www.pgnmentor.com_242_players.tar	259,160,064 bytes 53,294,656 bytes	426s 426s	45,402 MB 7,045 MB	BriefLZ_130_Intel_v19_64bit.exe --optimal -b2g "%1" "%1.b1z" i5-7200u 3.1Ghz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
www.pgnmentor.com_242_players.tar	259,160,064 bytes 39,722,579 bytes	637s 637s	10,341 MB 2,264 MB	brotilici9.exe -q 11 --large-window=30 "%1" -o "%1.bro" i5-7200u 3.1Ghz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)

D:\TEXTORAMIC-part-"turbobench_v18.05_-_build_04_May_2018" "www.pgnmentor.com_242_players.tar" -
esnappy.c/yappy/bzip2/lzham,4fb258:x4:d30/lzma,9d30:fb273:mf=bt4/oodle,89,91,95,99,111,115,119,129,139/lzturbo,19,12,10,29,22,20,39,32,30,59/brotli,11d30,zstd,4,1,5,12,22,22d30/lizard,11,19,21,29,31,3
9,41,49/trle -i3 -j31 -k1 -b2g

C Size	ratio%	C MB/s	D MB/s	Name	File
32983481	12.7	7.74	36.17	lzturbo 59	www.pgnmentor.com_242_players.tar
39231016	15.1	0.79	104.93	lzma 9d30:fb273:mf=bt4	www.pgnmentor.com_242_players.tar
39593823	15.3	0.22	440.06	oodle 139 'Leviathan'	www.pgnmentor.com_242_players.tar
39723233	15.3	0.39	513.15	brotli 11d30	www.pgnmentor.com_242_players.tar
40969239	15.8	0.91	826.78	lzturbo 39	www.pgnmentor.com_242_players.tar
41515092	16.0	1.01	738.44	zstd 22d30	www.pgnmentor.com_242_players.tar
41658947	16.1	0.26	724.47	oodle 89 'kraken'	www.pgnmentor.com_242_players.tar
41663251	16.1	0.17	724.42	oodle 129 'Hydra'	www.pgnmentor.com_242_players.tar
44190965	17.1	1.06	702.64	zstd 22	www.pgnmentor.com_242_players.tar
46465732	17.9	0.91	1163.44	lzturbo 29	www.pgnmentor.com_242_players.tar
51592947	19.9	10.19	26.60	bzip2	www.pgnmentor.com_242_players.tar
51727406	20.0	0.36	1800.96	oodle 99 'Mermaid'	www.pgnmentor.com_242_players.tar
53294656				BriefLZ_130_Intel_v19_64bit --optimal -b2g	www.pgnmentor.com_242_players.tar
54783913	21.1	0.88	1791.98	oodle 95 'Mermaid'	www.pgnmentor.com_242_players.tar
58441016			1065	Satanichi_GCC730_64bit.exe	! outside
58983140	22.8	38.01	748.29	lzturbo 32	www.pgnmentor.com_242_players.tar
60718583	23.4	1.05	834.46	lizard 49	www.pgnmentor.com_242_players.tar
65169215	25.1	0.37	2195.38	oodle 119 'Selkie'	www.pgnmentor.com_242_players.tar
65978099	25.5	5.30	767.26	zstd 12	www.pgnmentor.com_242_players.tar
68912242	26.6	0.99	2225.96	oodle 115 'Selkie'	www.pgnmentor.com_242_players.tar
73742676	28.5	1.08	1206.53	lizard 29	www.pgnmentor.com_242_players.tar
75365995	29.1	85.47	758.46	zstd 5	www.pgnmentor.com_242_players.tar
75803782	29.2	4.62	1811.09	lizard 39	www.pgnmentor.com_242_players.tar
83549304	32.2	34.38	1061.44	lzturbo 22	www.pgnmentor.com_242_players.tar
88067592	34.0	218.15	860.01	lzturbo 30	www.pgnmentor.com_242_players.tar

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2018 Powturbo 04 May 2018

Latest available Oodle was used:
1,085,952 bytes oodcore_6_win64.d11

SPEED BRUTALITY:

LzTurbo 29 is in its own class -
smokes all - WITHOUT ENTROPY CODING
on top of that!

LzTurbo 39 is 826/104=7.94x faster
than LZMA!

89754062	34.6	0.89	3041.21	lzturbo 19	www.pgnmentor.com_242_players.tar
89790178	34.6	4.93	2553.23	lizard 19	www.pgnmentor.com_242_players.tar
89839158	34.7	124.19	992.32	lizard 41	www.pgnmentor.com_242_players.tar
90578812	35.0	247.62	1036.18	zstd 1	www.pgnmentor.com_242_players.tar
93824882	36.2	153.20	1701.13	oodle 91 'Mermaid'	www.pgnmentor.com_242_players.tar
98756010	38.1	165.12	1506.39	lizard 31	www.pgnmentor.com_242_players.tar
103423028	39.9	47.60	2769.57	lzturbo 12	www.pgnmentor.com_242_players.tar
111538377	43.0	146.21	1801.86	lizard 21	www.pgnmentor.com_242_players.tar
114024890	44.0	194.14	2065.43	lizard 11	www.pgnmentor.com_242_players.tar
123741410	47.7	177.07	2513.58	oodle 111 'Selkie'	www.pgnmentor.com_242_players.tar
124810992	48.2	80.89	1242.77	yappy	www.pgnmentor.com_242_players.tar
126549911	48.8	296.58	1022.58	lzturbo 20	www.pgnmentor.com_242_players.tar
136466609	52.7	315.78	2241.36	lzturbo 10	www.pgnmentor.com_242_players.tar
136783755	52.8	321.88	855.32	snappy_c	www.pgnmentor.com_242_players.tar
258963104	99.9	193.80	2018.69	trle	www.pgnmentor.com_242_players.tar

Notes:

- Latest available 'oo2core_6_win64.dll' was used;
- **oodle** Compressors: Kraken = 8 (Default); Leviathan = 13 (Best); Mermaid = 9 (Crazy fast); Selkie = 11 (Fastest); Hydra = 12 (Tuneable composite of above);
- **oodle** Levels: HyperFast = -4,-1; None = 0; SuperFast = 1; VeryFast = 2; Fast = 3; Normal = 4; Optimal1,2,3,4 = 5,6,7,8;
- The tweak value **spacespeedtradeoff**=[64..1024] "tweak size vs decode time" has not been played with!
- If you wanna see more performers/options, write me to sanmayce@sanmayce.com, will try to add them!

Corpus '500000' benchmarked on i5-7200U 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (NAND: 64-layer 3bit MLC, cache: LPDDR4-1866 512 MB):

D:\TEXTORAMIC_part>lzbenc18 -c4 -i1,15 -o3 -

elzham,4/slz_deflate,3/slz_gzip,3/slz_zlib,3/tornado,1,16/bzip2,1,9/zstd,1,22/zstdLDM,1,22/fastlzma2,1,10/brotli,0,1,3,5,11/blosclz,1,9/crush,2/csc,5/density,1,3/fastlz,2/gipfeli,1/zolib,999/libdeflate,1,12/1z4,1,12/lizard,11,19,21,29,31,39,41,49/lzf,1/lzfse/lzg,9/lzjb/lzlib,9/lzma,0,1,9/lzrw,5/lzsse2,17/lzssse4,17/lzssse8,17/lzvn/pithy,9/quicklz,3/snappy/slz_zlib,3/uc1_nrv2b,9/uc1_nrv2d,9/uc1_nrv2e,9/xpack,1,9/xz,9/yalz77,12/yappy,99/zlib,1,5,9/zling,4/shrinker/wflz/lzmat "www.pgnmentor.com_242_players.tar"

lzbenc 1.8 (64-bit windows) Assembled by P.Skibinski

The results sorted by column number 4:

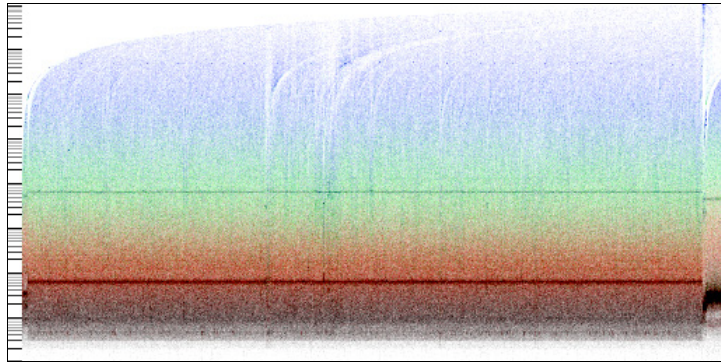
Compressor name	Compress. size	Decompress. size	Orig. size	Compr. size	Ratio	Filename
zstd 1.4.3 -22	0.89 MB/s	715 MB/s	259160064	44083237	17.01	www.pgnmentor.com_242_players.tar
zstdLDM 1.4.3 -22	0.90 MB/s	706 MB/s	259160064	44311714	17.10	www.pgnmentor.com_242_players.tar
fastlzma2 1.0.1 -10	2.10 MB/s	84 MB/s	259160064	44407353	17.14	www.pgnmentor.com_242_players.tar
tornado 0.6a -16	1.30 MB/s	218 MB/s	259160064	44917021	17.33	www.pgnmentor.com_242_players.tar
lzma 19.00 -9	1.03 MB/s	91 MB/s	259160064	45733595	17.65	www.pgnmentor.com_242_players.tar
xz 5.2.4 -9	1.06 MB/s	84 MB/s	259160064	45749579	17.65	www.pgnmentor.com_242_players.tar
lzham 1.0 -d26 -4	0.75 MB/s	209 MB/s	259160064	46910408	18.10	www.pgnmentor.com_242_players.tar
lzlib 1.11 -9	0.86 MB/s	63 MB/s	259160064	47560757	18.35	www.pgnmentor.com_242_players.tar
csc 2016-10-13 -5	1.29 MB/s	74 MB/s	259160064	49288126	19.02	www.pgnmentor.com_242_players.tar
bzip2 1.0.8 -9	9.98 MB/s	27 MB/s	259160064	51592943	19.91	www.pgnmentor.com_242_players.tar
brotli 2019-10-01 -11	0.41 MB/s	331 MB/s	259160064	54641741	21.08	www.pgnmentor.com_242_players.tar

Satanichi_GCC730_64bit.exe 1065 MB/s 58441016 ! outside lzbenc !

bzip2 1.0.8 -1	11 MB/s	38 MB/s	259160064	60323075	23.28	www.pgnmentor.com_242_players.tar
lizard 1.0 -49	1.03 MB/s	830 MB/s	259160064	60718579	23.43	www.pgnmentor.com_242_players.tar
zling 2018-10-12 -4	29 MB/s	163 MB/s	259160064	62296273	24.04	www.pgnmentor.com_242_players.tar
brotli 2019-10-01 -5	22 MB/s	402 MB/s	259160064	68060566	26.26	www.pgnmentor.com_242_players.tar
crush 1.0 -2	0.21 MB/s	318 MB/s	259160064	69795065	26.93	www.pgnmentor.com_242_players.tar
fastlzma2 1.0.1 -1	14 MB/s	63 MB/s	259160064	72059783	27.81	www.pgnmentor.com_242_players.tar
xpack 2016-06-02 -9	7.07 MB/s	807 MB/s	259160064	72212547	27.86	www.pgnmentor.com_242_players.tar
lizard 1.0 -29	1.06 MB/s	1205 MB/s	259160064	73742672	28.45	www.pgnmentor.com_242_players.tar
lzma 19.00 -1	16 MB/s	61 MB/s	259160064	73851748	28.50	www.pgnmentor.com_242_players.tar
libdeflate 1.3 -12	4.24 MB/s	717 MB/s	259160064	75169964	29.01	www.pgnmentor.com_242_players.tar
lizard 1.0 -39	4.37 MB/s	1625 MB/s	259160064	75803778	29.25	www.pgnmentor.com_242_players.tar
lzma 19.00 -0	20 MB/s	53 MB/s	259160064	78821504	30.41	www.pgnmentor.com_242_players.tar
zlib 1.2.11 -9	13 MB/s	284 MB/s	259160064	78932364	30.46	www.pgnmentor.com_242_players.tar
brotli 2019-10-01 -3	68 MB/s	365 MB/s	259160064	79896143	30.83	www.pgnmentor.com_242_players.tar
lzssse2 2019-04-18 -17	5.12 MB/s	3182 MB/s	259160064	81098737	31.29	www.pgnmentor.com_242_players.tar
lzssse4 2019-04-18 -17	6.09 MB/s	3302 MB/s	259160064	81214066	31.34	www.pgnmentor.com_242_players.tar
lzssse8 2019-04-18 -17	5.94 MB/s	3322 MB/s	259160064	81578837	31.48	www.pgnmentor.com_242_players.tar
zlib 1.2.11 -5	22 MB/s	275 MB/s	259160064	81824405	31.57	www.pgnmentor.com_242_players.tar
lzfse 2017-03-08	50 MB/s	606 MB/s	259160064	82225283	31.73	www.pgnmentor.com_242_players.tar
uc1_nrv2e 1.03 -9	0.94 MB/s	273 MB/s	259160064	84706692	32.69	www.pgnmentor.com_242_players.tar
uc1_nrv2d 1.03 -9	0.87 MB/s	283 MB/s	259160064	85634294	33.04	www.pgnmentor.com_242_players.tar
brotli 2019-10-01 -1	143 MB/s	293 MB/s	259160064	87515254	33.77	www.pgnmentor.com_242_players.tar
uc1_nrv2b 1.03 -9	0.83 MB/s	274 MB/s	259160064	87713266	33.85	www.pgnmentor.com_242_players.tar
zolib 2.10 -999	9.93 MB/s	538 MB/s	259160064	88959160	34.33	www.pgnmentor.com_242_players.tar
libdeflate 1.3 -1	123 MB/s	739 MB/s	259160064	89554439	34.56	www.pgnmentor.com_242_players.tar
lizard 1.0 -19	4.51 MB/s	2446 MB/s	259160064	89790174	34.65	www.pgnmentor.com_242_players.tar
lizard 1.0 -41	124 MB/s	1003 MB/s	259160064	89839154	34.67	www.pgnmentor.com_242_players.tar
zstdLDM 1.4.3 -1	147 MB/s	502 MB/s	259160064	90178502	34.80	www.pgnmentor.com_242_players.tar
xpack 2016-06-02 -1	122 MB/s	568 MB/s	259160064	90870266	35.06	www.pgnmentor.com_242_players.tar
zstd 1.4.3 -1	256 MB/s	493 MB/s	259160064	91059936	35.14	www.pgnmentor.com_242_players.tar
brotli 2019-10-01 -0	213 MB/s	308 MB/s	259160064	92732806	35.78	www.pgnmentor.com_242_players.tar
yalz77 2015-09-19 -12	21 MB/s	310 MB/s	259160064	93434423	36.05	www.pgnmentor.com_242_players.tar
lzmat 1.01	28 MB/s	271 MB/s	259160064	95843706	36.98	www.pgnmentor.com_242_players.tar
zlib 1.2.11 -1	77 MB/s	267 MB/s	259160064	96874983	37.38	www.pgnmentor.com_242_players.tar
lzg 1.0.10 -9	0.49 MB/s	550 MB/s	259160064	97323069	37.55	www.pgnmentor.com_242_players.tar
lizard 1.0 -31	165 MB/s	1567 MB/s	259160064	98756006	38.11	www.pgnmentor.com_242_players.tar
density 0.14.2 -3	366 MB/s	356 MB/s	259160064	103150346	39.80	www.pgnmentor.com_242_players.tar
gipfeli 2016-07-13	225 MB/s	407 MB/s	259160064	105457322		
lzvn 2017-03-08	42 MB/s	735 MB/s	259160064	106225966		
quicklz 1.5.0 -3	43 MB/s	774 MB/s	259160064	111435921		
lzrw 15-Jul-1991 -5	104 MB/s	425 MB/s	259160064	111499971		
lizard 1.0 -21	146 MB/s	1650 MB/s	259160064	111538373		
lizard 1.0 -11	197 MB/s	2164 MB/s	259160064	114024886		
pithy 2011-12-24 -9	245 MB/s	1278 MB/s	259160064	115416654		
lzf 3.6 -1	270 MB/s	540 MB/s	259160064	123354206		
yappy 2014-03-22 -99	78 MB/s	1289 MB/s	259160064	124484741		
fastlz 0.1 -2	280 MB/s	452 MB/s	259160064	124581171		
slz_deflate 1.0.0 -3	183 MB/s	253 MB/s	259160064	129680935		
slz_gzip 1.0.0 -3	168 MB/s	229 MB/s	259160064	129680941		
slz_zlib 1.0.0 -3	160 MB/s	209 MB/s	259160064	129680953		
slz_zlib 1.0.0 -3	160 MB/s	209 MB/s	259160064	129680953		
lz4 1.9.2	361 MB/s	2673 MB/s	259160064	133518466		
lz4 1.9.2	362 MB/s	2673 MB/s	259160064	133518466		
snappy 2019-09-30	249 MB/s	788 MB/s	259160064	136970651		
tornado 0.6a -1	205 MB/s	280 MB/s	259160064	138584648		
density 0.14.2 -1	1393 MB/s	1641 MB/s	259160064	142862576		
wflz 2015-09-16	190 MB/s	597 MB/s	259160064	151660482		
blosclz 2.0.0 -9	216 MB/s	392 MB/s	259160064	176018779		
lzjb 2010	183 MB/s	313 MB/s	259160064	178072643		
shrinker 0.1	695 MB/s	1403 MB/s	259160064	195644880		
blosclz 2.0.0 -1	7665 MB/s	7587 MB/s	259160064	259160064	100.00	www.pgnmentor.com_242_players.tar
memcpy	11546 MB/s	10525 MB/s	259160064	259160064	100.00	www.pgnmentor.com_242_players.tar

D:\TEXTORAMIC_part>timer64 zstd-v1.4.4-win64.exe -b1 -e22 --fast=22 --threads=64 --priority=rt --no-check -i9 www.pgnmentor.com_242_players.tar

-22#_242_players.tar	259160064	->	168778632	(1.536),1401.5	MB/s	1707.2	MB/s
-21#_242_players.tar	259160064	->	167890151	(1.544),1385.4	MB/s	1685.1	MB/s
-20#_242_players.tar	259160064	->	166998494	(1.552),1362.7	MB/s	1651.3	MB/s
-19#_242_players.tar	259160064	->	166156606	(1.560),1342.1	MB/s	1624.1	MB/s
-18#_242_players.tar	259160064	->	165225353	(1.569),1316.3	MB/s	1593.9	MB/s
-17#_242_players.tar	259160064	->	164164694	(1.579),1289.0	MB/s	1555.8	MB/s
-16#_242_players.tar	259160064	->	163244907	(1.588),1258.1	MB/s	1511.5	MB/s
-15#_242_players.tar	259160064	->	162267569	(1.597),1239.2	MB/s	1489.3	MB/s
-14#_242_players.tar	259160064	->	161114932	(1.609),1215.4	MB/s	1495.0	MB/s
-13#_242_players.tar	259160064	->	159713188	(1.623),1184.1	MB/s	1503.3	MB/s
-12#_242_players.tar	259160064	->	158375112	(1.636),1158.7	MB/s	1478.4	MB/s
-11#_242_players.tar	259160064	->	157169354	(1.649),1134.7	MB/s	1459.0	MB/s
-10#_242_players.tar	259160064	->	155789829	(1.664),1101.0	MB/s	1428.6	MB/s
-9#_242_players.tar	259160064	->	153739958	(1.686),1057.6	MB/s	1373.8	MB/s
-8#_242_players.tar	259160064	->	151472595	(1.711),1014.6	MB/s	1323.4	MB/s
-7#_242_players.tar	259160064	->	149337669	(1.735),969.6	MB/s	1269.6	MB/s
-6#_242_players.tar	259160064	->	146564019	(1.768),927.0	MB/s	1278.4	MB/s
-5#_242_players.tar	259160064	->	142341309	(1.821),875.2	MB/s	1207.6	MB/s
-4#_242_players.tar	259160064	->	138150206	(1.876),823.3	MB/s	1134.9	MB/s
-3#_242_players.tar	259160064	->	134463967	(1.927),782.5	MB/s	1101.1	MB/s
-2#_242_players.tar	259160064	->	127713063	(2.029),722.9	MB/s	1049.2	MB/s
-1#_242_players.tar	259160064	->	120447776	(2.152),652.1	MB/s	974.7	MB/s
0#_242_players.tar	259160064	->	78299548	(3.310),196.1	MB/s	631.4	MB/s
1#_242_players.tar	259160064	->	91085516	(2.845),590.0	MB/s	823.1	MB/s
2#_242_players.tar	259160064	->	81553553	(3.178),403.6	MB/s	646.5	MB/s
3#_242_players.tar	259160064	->	78299548	(3.310),197.1	MB/s	630.7	MB/s
4#_242_players.tar	259160064	->	76651563	(3.381),148.3	MB/s	628.6	MB/s
5#_242_players.tar	259160064	->	74601051	(3.474),93.2	MB/s	615.5	MB/s
6#_242_players.tar	259160064	->	72432084	(3.578),59.2	MB/s	638.3	MB/s



The struture of the corpus is shown in the diagram above. Each pixel represents a match between consecutive occurrences of a string. The color of the pixel represents the length of the match: black for 1 byte, red for 2, green for 4 and blue for 8. The horizontal axis represents the position of the second occurrence of the string. The vertical axis represents the distance back to the match on a logarithmic scale. (The image was generated by the fv program).

<http://www.mattmahoney.net/dc/dce.html>

Corpus Name	Corpus Size Compressed Size	Global Time Process Time	Virtual Memory Physical Memory	Command Line Testmachine
Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar	107,784,192 bytes 36,023,167 bytes	2,637s 2,634s	7,148 MB 5,656 MB	Satanichi_GCC730_64bit.exe "%1" "%1.Nakamichi" 24 5000 I i5-7200u 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar	107,784,192 bytes 33,141,734 bytes	36s 36s	2,581 MB 618 MB	"zpaq_v7.05_x64.exe" add "%1.method211.zpaq" "%1" -method 211 -threads 1 i5-7200u 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar	107,784,192 bytes 20,539,721 bytes	359s 359s	3,602 MB 1,588 MB	"zpaq_v7.05_x64.exe" add "%1.method511.zpaq" "%1" -method 511 -threads 1 i5-7200u 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar	107,784,192 bytes 27,968,085 bytes	102s 101s	2,158 MB 2,156 MB	zstd-v1.4.4-win64.exe --single-thread --ultra -22 --zstd-wlog=31,clog=30,hlog=30,slog=26 "%1" -o "%1.L22w2GB.zst" i5-7200u 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar	107,784,192 bytes 22,279,538 bytes	13s 13s	2,886 MB 1,541 MB	bwtturbo -59 -t0 -b1024 "%1" "%1.zv" i5-7200u 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar	107,784,192 bytes 24,345,369 bytes	305s 402s	1,331 MB 1,236 MB	rz.exe a -d 1023M "%1.rz" "%1" i5-7200u 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar	107,784,192 bytes 27,535,075 bytes	103s 78s	1,355 MB 1,064 MB	"7za_x64_v1900.exe" a -t7z -mx9 -md=30 "%1.MX9dict1024.7z" "%1" i5-7200u 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar	107,784,192 bytes 33,838,607 bytes	59s 59s	1,420 MB 1,367 MB	bcrush_ICL150_64bit.exe --optimal "%1" "%1.optimal.bcrush" i5-7200u 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar	107,784,192 bytes 35,831,237 bytes	51s 51s	852 MB 852 MB	crush_xezz.exe -9 "%1" "%1.9.crush_xezz" i5-7200u 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar	107,784,192 bytes 34,820,909 bytes	104s 104s	45,403 MB 4,141 MB	BriefLZ_130_Intel_v19_64bit.exe --optimal -b2g "%1" "%1.bizl" i5-7200u 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)
Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar	107,784,192 bytes 27,601,342 bytes	300s 299s	10,345 MB 968 MB	brotili_icl9.exe -q 11 --large-window=30 "%1" -o "%1.bro" i5-7200u 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (3bit MLC, LPDDR4-1866 512 MB)

D:\TEXTORAMIC_parts\turbobench_v18.05_-_build_04_May_2018"" "Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar"" -
esnappy_c/yappy/bzip2/lzham,4fb258:x4:d30/lzma,9d30:fb273:mf=bt4/oodle,89,91,95,99,111,115,119,129,139/lzturbo,19,12,10,29,22,20,39,32,30,59/brotli,11d30/zstd,1,5,12,22,22d30/lizard,11,19,21,29,31,3
9,41,49/trle -i3 -j31 -k1 -B2G

C Size	ratio%	C MB/s	D MB/s	Name	File
22279381	20.7	7.20	34.92	lzturbo 59	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
27526894	25.5	0.95	72.60	lzma 9d30:fb273:mf=bt4	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
27600942	25.6	0.35	323.33	brotli 11d30	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
27945445	25.9	0.84	615.91	lzturbo 39	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
28008216	26.0	1.09	522.11	zstd 22d30	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
28041924	26.0	1.10	522.63	zstd 22	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
28271041	26.2	0.30	424.52	oodle 139 'Leviathan'	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
28432156	26.4	0.34	526.63	oodle 89 'Kraken'	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
28434665	26.4	0.22	526.87	oodle 129 'Hydra'	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
31570314	29.3	0.84	888.80	lzturbo 29	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
31734097	29.4	11.53	21.79	bzip2	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
32856071	30.5	27.03	588.87	lzturbo 32	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
34820909				BriefLZ_130_Intel_v19_64bit --optimal -b2g	
35009827	32.5	5.67	531.75	zstd 12	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
35077489	32.5	1.33	753.65	lizard 49	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
35716103	33.1	0.41	1343.98	oodle 99 'Mermaid'	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
36023167			758	Satanichi_GCC730_64bit.exe	
36289392	33.7	1.05	1393.82	oodle 95 'Mermaid'	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
39674735	36.8	71.62	629.13	zstd 5	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
41420278	38.4	1.38	1069.96	lizard 59	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
42104125	39.1	6.60	1480.88	lizard 39	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
43339102	40.2	26.84	864.54	lzturbo 22	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
43952859	40.8	0.44	2030.52	oodle 119 'Selkie'	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
44238752	41.0	1.24	2179.04	oodle 115 'Selkie'	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar

Turbobench v18.05 Copyright (c) 2013-2018 Powturbo 04 May 2018

Latest available Oodle was used:
1,085,952 bytes oodlcore_6_win64.dll

SPEED BRUTALITY:

LzTurbo 29 is in its own class - smokes all - WITHOUT ENTROPY CODING on top of that!

LzTurbo 39 is 615/72=8.54x faster than LZMA!

44969828	41.7	164.34	815.84	lzturbo 30	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
46796492	43.4	95.63	1504.34	oodle 91 'Mermaid'	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
47812739	44.4	0.98	3027.48	lzturbo 19	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
47834366	44.4	6.87	2368.21	lizard 19	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
47979874	44.5	215.52	737.59	zstd 1	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
48310759	44.8	108.24	839.89	lizard 41	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
50763849	47.1	41.07	3111.10	lzturbo 12	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
53228945	49.4	137.47	1581.43	lizard 31	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
58403493	54.2	161.94	2291.62	lizard 11	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
59622419	55.3	130.30	1565.13	lizard 21	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
61648740	57.2	105.02	2906.41	oodle 111 'selkie'	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
63346702	58.8	269.87	928.30	lzturbo 20	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
64258218	59.6	65.73	1366.21	yappy	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
67094768	62.2	263.91	812.90	snappy_c	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
67308189	62.4	303.94	2761.64	lzturbo 10	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
107743877	100.0	179.73	2001.41	trle	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar

Notes:

- Latest available 'oo2core_6_win64.dll' was used;
- **oodle** Compressors: Kraken = 8 (Default); Leviathan = 13 (Best); Mermaid = 9 (Crazy fast); Selkie = 11 (Fastest); Hydra = 12 (Tuneable composite of above);
- **oodle** Levels: HyperFast = -4, -1; None = 0; SuperFast = 1; VeryFast = 2; Fast = 3; Normal = 4; Optimal1,2,3,4 = 5,6,7,8;
- The tweak value **spacespeedtradeoff**=[64..1024] "tweak size vs decode time" has not been played with!
- If you wanna see more performers/options, write me to sanmayce@sanmayce.com, will try to add them.

Corpus '500000' benchmarked on i5-7200U 3.1GHz, 8GB DDR4 2x1066MHz, SSD 500GB Samsung 860 EVO (NAND: 64-layer 3bit MLC, cache: LPDDR4-1866 512 MB):

D:\TEXTORAMIC_part>lzbenc18 -c4 -i1,15 -o3 -elzham,4/slz_deflate,3/slz_gzip,3/slz_zlib,3/tornado,1,16/bzip2,1,9/zstd,1,22/zstdLDM,1,22/fastlzma2,1,10/brotli,0,1,3,5,11/blosclz,1,9/crush,2/csc,5/density,1,3/fastlz,2/gipfeli/1zlib,999/libdeflate,1,12/lz4,1,12/lizard,11,19,21,29,31,39,41,49/lzf,1/lzfse/lzg,9/lzjb/lzlib,9/lzma,0,1,9/lzrw,5/lzss2,17/lzss4,17/lzss8,17/lzvn/pithy,9/quicklz,3/snappy/slz_zlib,3/ucl_nrv2b,9/ucl_nrv2d,9/ucl_nrv2e,9/xbp,1,9/xz,9/yazl77,12/yappy,99/zlib,1,5,9/zling,4/shrinker/wfzl/zmat ""Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar""

lzbenc 1.8 (64-bit windows) Assembled by P.Skibinski

The results sorted by column number 4:

Compressor name	Compress.	Decompress.	Orig. size	Compr. size	Ratio	Filename
csc 2016-10-13 -5	1.94 MB/s	52 MB/s	107784192	27516217	25.53	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
xz 5.2.4 -9	0.98 MB/s	69 MB/s	107784192	27641802	25.65	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
lzma 19.00 -9	0.99 MB/s	72 MB/s	107784192	27647322	25.65	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
lzham 1.0 -d26 -4	0.75 MB/s	164 MB/s	107784192	27878218	25.86	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
fastlzma2 1.0.1 -10	2.79 MB/s	66 MB/s	107784192	27950277	25.93	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
zstd 1.4.3 -22	1.08 MB/s	494 MB/s	107784192	28002003	25.98	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
zstdLDM 1.4.3 -22	1.07 MB/s	498 MB/s	107784192	28002265	25.98	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
lzlib 1.11 -9	0.98 MB/s	54 MB/s	107784192	28050137	26.02	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
tornado 0.6a -16	1.37 MB/s	164 MB/s	107784192	28542202	26.48	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
brotli 2019-10-01 -11	0.41 MB/s	299 MB/s	107784192	30390541	28.20	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
bzip2 1.0.8 -9	11 MB/s	22 MB/s	107784192	31734093	49.44	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
zling 2018-10-12 -4	23 MB/s	121 MB/s	107784192	33601232	31.17	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
lizard 1.0 -49	1.32 MB/s	650 MB/s	107784192	35077485	32.54	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar
crush 1.0 -2	0.22 MB/s	247 MB/s	107784192	35851409	33.26	Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar

Satanichi_GCC730_64bit.exe	758 MB/s	36023167	! outside lzbenc !
brotli 2019-10-01 -5	18 MB/s	324 MB/s	107784192
bzip2 1.0.8 -1	12 MB/s	29 MB/s	107784192
fastlzma2 1.0.1 -1	11 MB/s	48 MB/s	107784192
xbp 2016-06-02 -9	7.26 MB/s	724 MB/s	107784192
lzma 19.00 -9	15 MB/s	47 MB/s	107784192
libdeflate 1.3 -12	5.92 MB/s	572 MB/s	107784192
lizard 1.0 -29	1.36 MB/s	980 MB/s	107784192
lzfse 2017-03-08	42 MB/s	507 MB/s	107784192
lizard 1.0 -39	6.37 MB/s	1565 MB/s	107784192
zlib 1.2.11 -9	11 MB/s	222 MB/s	107784192
brotli 2019-10-01 -3	57 MB/s	299 MB/s	107784192
zlib 1.2.11 -5	23 MB/s	218 MB/s	107784192
lzss2 2019-04-18 -17	6.50 MB/s	2764 MB/s	107784192
lzma 19.00 -0	17 MB/s	41 MB/s	107784192
lzss4 2019-04-18 -17	7.80 MB/s	2911 MB/s	107784192
lzss8 2019-04-18 -17	7.48 MB/s	2815 MB/s	107784192
ucl_nrv2e 1.03 -9	0.70 MB/s	216 MB/s	107784192
ucl_nrv2d 1.03 -9	0.81 MB/s	218 MB/s	107784192
brotli 2019-10-01 -1	122 MB/s	271 MB/s	107784192
ucl_nrv2b 1.03 -9	0.89 MB/s	210 MB/s	107784192
libdeflate 1.3 -1	113 MB/s	585 MB/s	107784192
xbp 2016-06-02 -1	103 MB/s	537 MB/s	107784192
lzlib 2.10 -999	8.40 MB/s	392 MB/s	107784192
lizard 1.0 -19	6.41 MB/s	2451 MB/s	107784192
zstdLDM 1.4.3 -1	136 MB/s	456 MB/s	107784192
zstd 1.4.3 -1	220 MB/s	456 MB/s	107784192
lizard 1.0 -41	103 MB/s	852 MB/s	107784192
lzmatt 1.0.1	21 MB/s	224 MB/s	107784192
brotli 2019-10-01 -0	164 MB/s	244 MB/s	107784192
zlib 1.2.11 -1	61 MB/s	219 MB/s	107784192
lzg 1.0.10 -9	0.49 MB/s	423 MB/s	107784192
yazl77 2015-09-19 -12	15 MB/s	232 MB/s	107784192
density 0.14.2 -3	268 MB/s	269 MB/s	107784192
lzvn 2017-03-08	35 MB/s	612 MB/s	107784192
quicklz 1.5.0 -3	32 MB/s	519 MB/s	107784192
lizard 1.0 -31	138 MB/s	1661 MB/s	107784192
gipfeli 2016-07-13	173 MB/s	279 MB/s	107784192
lzrw 15-Jul-1991 -5	87 MB/s	311 MB/s	107784192
pithy 2011-12-24 -9	183 MB/s	1114 MB/s	107784192
lizard 1.0 -11	154 MB/s	2461 MB/s	107784192
lizard 1.0 -21	130 MB/s	1575 MB/s	107784192
shrinker 0.1	223 MB/s	587 MB/s	107784192
lzf 3.6 -1	188 MB/s	410 MB/s	107784192
yappy 2014-03-22 -99	62 MB/s	1431 MB/s	107784192
fastlz 0.1 -2	175 MB/s	324 MB/s	107784192
slz_deflate 1.0.0 -3	161 MB/s	218 MB/s	107784192
slz_gzip 1.0.0 -3	149 MB/s	200 MB/s	107784192
slz_zlib 1.0.0 -3	143 MB/s	184 MB/s	107784192
slz_zlib 1.0.0 -3	143 MB/s	184 MB/s	107784192
density 0.14.2 -1	880 MB/s	1385 MB/s	107784192
snappy 2019-09-30	209 MB/s	738 MB/s	107784192
lz4 1.9.2	346 MB/s	2850 MB/s	107784192
lz4 1.9.2	346 MB/s	2851 MB/s	107784192
tornado 0.6a -1	177 MB/s	242 MB/s	107784192
wfzl 2015-09-16	134 MB/s	487 MB/s	107784192
lzjb 2010	169 MB/s	301 MB/s	107784192
blosclz 2.0.0 -9	195 MB/s	410 MB/s	107784192
blosclz 2.0.0 -1	774 MB/s	7637 MB/s	107784192
memcpy	11565 MB/s	10587 MB/s	107784192

D:\TEXTORAMIC_part>timer64 zstd-v1.4.4-win64.exe -b1 -e22 --fast=22 --threads=64 --priority=rt --no-check -i9 ""Encyclopaedia_Judaica_(in_22_volumes)_TXT.tar""			
-22#volumes)_TXT.tar	107784192	94188708 (1.144), 1452.5 MB/s	2051.8 MB/s
-21#volumes)_TXT.tar	107784192	93631990 (1.151), 1419.8 MB/s	1995.3 MB/s
-20#volumes)_TXT.tar	107784192	93017298 (1.159), 1395.8 MB/s	1929.7 MB/s
-19#volumes)_TXT.tar	107784192	92381877 (1.167), 1363.3 MB/s	1874.6 MB/s
-18#volumes)_TXT.tar	107784192	91660920 (1.176), 1325.0 MB/s	1813.4 MB/s
-17#volumes)_TXT.tar	107784192	90898857 (1.186), 1294.9 MB/s	1754.9 MB/s
-16#volumes)_TXT.tar	107784192	90123176 (1.196), 1257.3 MB/s	1695.3 MB/s
-15#volumes)_TXT.tar	107784192	89213660 (1.208), 1225.4 MB/s	1670.5 MB/s
-14#volumes)_TXT.tar	107784192	88131954 (1.223), 1191.7 MB/s	1658.3 MB/s
-13#volumes)_TXT.tar	107784192	87049057 (1.238), 1143.7 MB/s	1639.5 MB/s
-12#volumes)_TXT.tar	107784192	85808432 (1.256), 1094.2 MB/s	1579.8 MB/s
-11#volumes)_TXT.tar	107784192	84484262 (1.276), 1053.5 MB/s	1533.9 MB/s
-10#volumes)_TXT.tar	107784192	83025119 (1.298), 1006.7 MB/s	1474.9 MB/s
-9#_volumes)_TXT.tar	107784192	81506863 (1.322), 963.3 MB/s	1410.5 MB/s
-8#_volumes)_TXT.tar	107784192	79934213 (1.348), 916.1 MB/s	1355.5 MB/s
-7#_volumes)_TXT.tar	107784192	78228524 (1.378), 865.7 MB/s	1301.6 MB/s
-6#_volumes)_TXT.tar	107784192	76163760 (1.415), 817.2 MB/s	1298.6 MB/s
-5#_volumes)_TXT.tar	107784192	73574808 (1.465), 769.2 MB/s	1220.9 MB/s
-4#_volumes)_TXT.tar	107784192	70496630 (1.529), 717.6 MB/s	1161.1 MB/s
-3#_volumes)_TXT.tar	107784192	67384700 (1.600), 671.4 MB/s	1089.6 MB/s
-2#_volumes)_TXT.tar	107784192	64416945 (1.673), 624.7 MB/s	1044.7 MB/s
-1#_volumes)_TXT.tar	107784192	62117986 (1.735), 572.0 MB/s	998.4 MB/s
0#_volumes)_TXT.tar	107784192	40619690 (2.653), 148.5 MB/s	589.1 MB/s
1#_volumes)_TXT.tar	107784192	47864101 (2.252), 499.9 MB/s	742.7 MB/s
2#_volumes)_TXT.tar	107784192	43104590 (2.501), 332.7 MB/s	625.9 MB/s
3#_volumes)_TXT.tar	107784192	40619690 (2.653), 148.3 MB/s	588.6 MB/s
4#_volumes)_TXT.tar	107784192	39609562 (2.721), 110.0 MB/s	565.6 MB/s
5#_volumes)_TXT.tar	107784192	39136047 (2.754), 76.0 MB/s	541.0 MB/s
6#_volumes)_TXT.tar	107784192	38131480 (2.827), 52.4 MB/s	561.1 MB/s
7#_volumes)_TXT.tar	107784192	36939274 (2.918), 37.0 MB/s	599.3 MB/s
8#_volumes)_TXT.tar	107784192	36450013 (2.957), 29.0 MB/s	625.4 MB/s
Satanichi_GCC730_64bit.exe	36023167	758 MB/s	
9#_volumes)_TXT.tar	107784192	36020221 (2.992), 20.7 MB/s	635.3 MB/s
10#_volumes)_TXT.tar	107784192	35356749 (3.048), 17.2 MB/s	592.6 MB/s
11#_volumes)_TXT.tar	107784192	35016586 (3.078), 15.1 MB/s	565.9 MB/s
12#_volumes)_TXT.tar	107784192	34618210 (3.114), 9.26 MB/s	568.9 MB/s
13#_volumes)_TXT.tar	107784192	34061503 (3.164), 9.93 MB/s	605.1 MB/s
14#_volumes)_TXT.tar	107784192	33367093 (3.230), 8.20 MB/s	526.1 MB/s
15#_volumes)_TXT.tar	107784192	32933553 (3.273), 6.62 MB/s	474.0 MB/s
16#_volumes)_TXT.tar	107784192	31722540 (3.398), 6.37 MB/s	576.3 MB/s
17#_volumes)_TXT.tar	107784192	30866879 (3.492), 4.42 MB/s	482.5 MB/s
18#_volumes)_TXT.tar	107784192	30457006 (3.539), 3.68 MB/s	405.5 MB/s
19#_volumes)_TXT.tar	107784192	29959117 (3.598), 3.11 MB/s	370.8 MB/s
20#_volumes)_TXT.tar	107784192	28856348 (3.735), 1.30 MB/s	512.4 MB/s
21#_volumes)_TXT.tar	107784192	28296099 (3.809), 1.17 MB/s	512.8 MB/s
22#_volumes)_TXT.tar	107784192	28002003 (3.849), 1.10 MB/s	515.4 MB/s

Command Line: Satanichi_GCC730_64bit.exe "%1" "%1.Nakamichi" 24 5000 I

Compress Speed: 107,784,192 Bytes / 2,637 Seconds = 40,873 B/s

RAM needed to house B-trees: 34N = 3,521MB

Testmachine: i5-7200U 3.1GHz, 8GB DDR4 2x1066MHz

SSD model: Samsung 860 EVO 500GB

SSD Controller: Samsung PM830

SSD NAND: 64-layer 3bit MLC

SSD CACHE DRAM: (LPDDR4-1866) 512 MB

Speedup: If 4GB Physical RAM are available then you can put those B-trees into Fastest/System RAM by using 'i' option instead of 'e', Internal vs External, that is.



- What is **Satanichi**?
- The registered Nakamichi 'LITE', registration costs 777 JPY.

Nakamichi highlights:

- ♦ The Zennish LZSS Microdeduplicator, 100% FREE;
- ♦ The first *Lempel-Ziv-Storer-Szymanski* (LZSS) compressor using 1TB sliding window;
- ♦ It targets superfast decompression of huge/tera corpora of textual data;
- ♦ Single-threaded Non-SIMD console tool written entirely by yours truly Sanmayce in plain C;
- ♦ Compileable under windows and Linux;
- ♦ The Leprechaunesque (Internal/External) B-trees order 3 (2 keys MAX) are brutally-optimized;
- ♦ SCALABLE! Gets faster when more Physical or/and External RAM is available, on machines with 1TB RAM it will scream;
- ♦ The 'LITE' compile uses only B-trees, IF NEEDED, BILLIONS of DEFRAGMENTED B-trees...



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The Zennish Microdeduplicator

The baddest Nakamichi has been released ... it is called Satanichi, the DEEPSEE file-to-file textual decompressor.

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The included .PDF booklet contains the FASTEST B-tree, lookup hash and memmem() implementations known to me, a PRACTICAL ALGORITHMIC MANUAL it is.

Crafted by machinely yours [Sanmayce](mailto:sanmayce@sanmayce.com), for contacts: sanmayce@sanmayce.com

The Satanichi's source, .PDF booklet and binary are within:

http://www.satanichi.net/Satanichi_aka_Nakamichi_2020-Feb-26_Defragmented_boosted_STDOUT_LITE.zip

Its price (registration + package) – one Prince Kamitsumiya banknote.



Buy Now

