\$Ll	_74@	amat	in:		
a1	00	00	00	00	mov
03	c2				adc
8b	04	30			mo∨
25	ff	ff	ff	00	anc
0f	af	c7			imu
8b	1c	30			mo∖
89	19				mo∨
8b	44	30	04		mo∖
89	41	04			mo∖
83	c2	03			adc
03	cf				adc
ff	4c	24	1c		dec
75	d7				jne

eax, DWO	RD PTR	_Patternlen
eax DWO		[eax+esi]
eax, 167	77215	
eax. edi		
ebx, DWO	RD PTR	[eax+esi]
DWORD PT	R [ecx]	ļ, ebx
eax, DWO	$RD^{-}PTR^{-}$	[eax+esi+4]
DWORD PT	R [есхн	-4], eax
edx, 3		
ecx, edi		1 miles
DWORD PT	R_tv977	?[esp+376]
SHORT \$L	L/4@man	n
	eax, DWO eax, edx eax, DWO eax, 167 eax, edi ebx, DWO DWORD PT eax, DWO DWORD PT edx, 3 ecx, edi DWORD PT SHORT \$L	eax, DWORD PTR eax, edx eax, DWORD PTR eax, 16777215 eax, edi ebx, DWORD PTR DWORD PTR [ecx] eax, DWORD PTR DWORD PTR [ecx- edx, 3 ecx, edi DWORD PTR tv977 SHORT \$LL74@mai

Note2: The niftiness lies in readiness for multithreading and mostly in boosting the search by having the BBs. The decompressor would upload (at burst speed) the BB data and then read-and-decode one-by-one the triads (BB pool/array indexes), that is a simple copying. The pool houses up to 256\*256\*256 BBs/elements. Note7: My benchmark text file OSHO.TXT 206,908,949 bytes where OSHO.TXT.SS 116,871,584 bytes for order 6: Decompressing OSHO.TXT.SS to RAM without Dumping to DRIVE time: 1704 clocks or 118579 KB/s, an awful result. For order 4 enforced: 156,174,067 OSHO.TXT.SS is being decompressed at 192804 KB/s. For order 7 enforced: 122,297,608 OSHO.TXT.SS is being decompressed at 85618 KB/s. For order 8 enforced: 149,243,106 OSHO.TXT.SS is being decompressed at 115396 KB/s. Obviously the fastest cache size is crucial, for OSHO.TXT 12MB BB pool vs 1MB L2 cache disbalance is the cause for this badly inferior performance compared to LZ L1 (32KB) cache-friendly variants. The testing machine is Toshiba Satellite with Intel Merom 2166MHz. <u>Note9:</u> Major (but still inferior) decompressing tweak since r.1+++, this time Microsoft v16 excels:

For order 7 enforced: 122,297,608 OSHO.TXT.SS is being decompressed at 170083 KB/s.

SIMPLICIUS SIMPLICISSIMUS

A 32/64 BIT BUILDING-BLOCKS TEXT DECOMPRESSOR, REVISION 2

<u>usanmayce.com</u> – on Intel T<sub>75</sub>00 2200 MHz it decompresses **OSHO.TXT.SS** at 207MB/s. Free download at

\$Ll	_74(	amat	in:		1311
a1	00	00	00	00	mov
03	c2				add
8b	04	30			mov
25	ff	ff	ff	00	and
0f	af	c7			imu
8b	1c	30			mov
89	19				mov
8b	44	30	04		mov
89	41	04			mov
83	c2	03			add
03	cf				add
ff	4c	24	1c		dec
75	d7				jne

6	eax,	DWORD	PTR	_Patter	nlen
	eax,	edx			
14	eax,	DWORD	PTR	[eax+es	i]
20	eax,	167772	215		
	eax,	edi			
	ebx,	DWORD	PTR	[eax+es	i]
	DWORD	) PTR [	[ecx]	, ebx	
	eax.	DWORD	PTR	Íeax+es	i+4]
	DWORE	) PTR [	есх+	41. eax	
	edx.	3	-	_,	
	ecx.	edi			
	DWORF	) PTR t	-v977	Tesp+37	61
	SHORT	- \$1174	lamai	n	
	51101(1	ΨΕΓ/	remu i		
	SHUKI	JLL/4	Feilla I		

Note2: The niftiness lies in readiness for multithreading and mostly in boosting the search by having the BBs. The decompressor would upload (at burst speed) the BB data and then read-and-decode one-by-one the triads (BB pool/array indexes), that is a simple copying. The pool houses up to 256\*256\*256 BBs/elements. Note7: My benchmark text file OSHO.TXT 206,908,949 bytes where OSHO.TXT.SS 116,871,584 bytes for order 6: Decompressing OSHO.TXT.SS to RAM without Dumping to DRIVE time: 1704 clocks or 118579 KB/s, an awful result. For order 4 enforced: 156,174,067 OSHO.TXT.SS is

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