CO	
2 ************************************	
TRTE instruction tests TRTE instruction tests NOTE: This test is based the CLCL-et-al Test modified to only test the Performance the true of the TRTE instruction. The MSG routine is from the Hercules Binary floating Point Validation Package by Stephen R. Orso **********************************	
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5 * 6 * NOTE: This test is based the CLCL-et-al Test 7 * modified to only test the Performance 8 * of the TRTE instruction. 9 * 10 * The MSG routine is from the Hercules Binary 11 * Floating Point Validation Package by Stephen R. Orso 12 13 * **********************************	
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11 * Floating Point Validation Package by Stephén R. Orso 12	
12 13 *	
13 * **********************************	
14 * ** IMPORTANT! ** 15 * ****************** 16 * 17 * This test uses the Hercules Diagnose X'008' interface 18 * to display messages and thus your .tst runtest script 19 * MUST contain a "DIAG8CMD ENABLE" statement within it! 20 * 21 * James Wekel October 2022	
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21 * James Wekel October 2022	
24 ************************************	
25 * 26 * TRTE Performance instruction tests	
20 * TRIE PERIORMANCE INSTRUCTION LESTS	
28 ********************************	
29 *	
30 \star This program ONLY tests the performance of the TRTE 31 \star instructions.	
32 * Tests:	
33 * All tests are 'TRTE R2,R4,12 '	
34 * where the FC table is 128K in length, 35 * FC is 2 bytes and an argument length of 2 bytes.	
35 * FC is 2 bytes and an argument length of 2 bytes. 36 *	
37 * M3=12 requires page crossover tests for both FC and	
38 * the argument and has the worst performance compared to	
39 * M3=0 with the FC table and operand contained within 40 * a page. The test should provide a lower bound on	
40 * page. The test should provide a tower bound on 41 * performance improvement.	
42 *	
43 * 1. TRTE of 512 bytes	
44 * 2. TRTE of 512 bytes that crosses a page boundary, 45 * which results in a CC=3, and a branch back	
46 * to complete the TRTE instruction.	
47 * 3. TRTE of 2048 bytes	
50 * to complete the TRTE instruction	
51 *	
52 ************************************	
45 * which results in a CC=3, and a branch back 46 * to complete the TRTE instruction. 47 * 3. TRTE of 2048 bytes 48 * 4. TRTE of 2048 bytes that crosses a page boundary, 49 * which results in a CC=3, and a branch back	

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT						
				54	*****	*****	*****	********		
				55 × 56 ×		cules Testcas	Δ.			
				57	*					
				58 s	* mainsize	e IRIE-02-per 16	tormance (Test TRTE instructions)		
				60 = 61 = 7		1				
				62 7	* archlvl	z/Arch				
				64	* loadcore	"\$(testpa	th)/TRTE-0	2-performance.core" 0x0		
				65 s	* diag8cmd	enable	# (needed	for messages to Hercules console)		
				67 = 68 =	* #r	408=ff 200	# (enabl	e timing tests) uration, depends on host)		
				69 7 70 7	* diag8cmd	disable	# (reset	back to default)		
				71 -	* *Done					
				72 3 73 3		*****	*****	*********		
		000000	0C3BED	75	TRTE2TST START	ρ				
000000		000000	0C3DLD	76		TRTE2TST,R0		Low core addressability		
000000 0001A0	00000001 80000000	000000	0001A0	78 79		TRTE2TST+X'1 X'0000000180		z/Architecure RESTART PSW		
0001A0	0000000 00000200			80	DC	AD(BEGIN)	00000			
0001B0 0001D0	00020001 80000000	0001B0	0001D0	82 83	ORG DC	TRTE2TST+X'1 X'0002000180		z/Architecure PROGRAM CHECK PSW		
0001D8	00000000 0000DEAD			84	DC	AD(X'DEAD')				
0001E0		0001E0	000200	86	ORG	TRTE2TST+X'2	00'	Start of actual test program		

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LOC	OBJECT CODE	ADDR1 ADDR	STMT		
			88 **** 89 * 90 **** 91 * 92 * A 93 * R 94 * 95 * 96 * 97 * 98 * 100 * 101 * 102 * 103 * 104 * 105 * 106 *	***************************** The actual "TRTE2TST" ************************** rchitecture Mode: z/Arch egister Usage: R0 (work) R1 (work) R2 (work) or MSG subroutine R3 (work) R4 (work) R5 TRTETEST Base (of current R5-R7 (work) R8 (work) R9 Second base register R10-R12 (work) R13 First base register R14 Subroutine call R15 Secondary Subroutine call	<pre>program itself *************** call test)</pre>

000200		000200 001200	111 112		Base Register Base Register
000200 000202 000204	05D0 06D0 06D0		114 BEGI 115 116	BCTR R13,0 Inita	lize FIRST base register lize FIRST base register lize FIRST base register
000206 00020A	4190 D800 4190 9800	0008 0008			lize SECOND base register ize SECOND base register
00020E	45E0 D328	0005	121 * 122 ** 123 * 8 124	Run the performance tests BAL R14,TEST91 Time T	RTE instruction (speed test)

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT							
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		126 * 127 *	۲	Test	for normal	or unexp	**************************************		
000212	95FF D208		000408	130		CLI	TIMEOPT,X'F	FF' Wa	s this a timing run?		
	4770 DD58		000F58	131		BNE	EOJ		, timing run; just go end normally		
	95FC D200		000400	133		CLI	TESTNUM,X'F	EC' Di	d we end on expected test?		
00021E	4770 DD70		000F70	134		BNE	FAILTEST	No	?! Then FAIL the test!		
000222	9599 D201		000401	136		CLI	SUBTEST,X'9		d we end on expected SUB-test?		
000226	4770 DD70		000F70	137		BNE	FAILTEST	No	?! Then FAIL the test!		
00022A	47F0 DD58		000F58	139		В	EOJ	Ye	s, then normal completion!		
					******* *		******** test storag		**************************************		
				143 *	*****				************		
00022E		00022E	000400	145 146		ORG	BEGIN+X'200	0'			
000400				147 T	ΓESTADDR				st/subtest numbers will go		
000400	99				TESTNUM				ber of active test		
000401	99			149 3	SUBTEST	DC	X'99'	ACTIVE C	est sub-test number		
000408				151		DS	0 D				
000408	00				ГІМЕОРТ		X'00'	Set to n	on-zero to run timing tests		
000410				154		DS	0 D				
000410	00000000 00000000				SAVE1T4	DC	4F'0' F'0'				
000420 000424	00000000 00000000				SAVER2 SAVER5	DC DC	F'0'				
000428		000428	000528	159		ORG	*+X'100'				

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT					
				162 *	TEST9	1 T	**************************************		
000528 00052C	91FF D208		000408	165 TEST91	1 TM BZR	TIMEOPT,X'FF' R14	Is timing tests option enabled? No, skip timing tests		
00052E	4150 DE18		001018	168	LA	R5,TRTEPERF	Point R5> testing control table		
000532		000000	000001	169 170 * 171 TST91		TRTETEST,R5	What each table entry looks like		
	5050 D224	000332	000424	171 131711 172 173 *	ST	R5,SAVER5	save current pref table base		
000536 00053A	4360 5000 4260 D200		000000	174 175 176 *	IC STC	R6,TNUM R6,TESTNUM	Set test number		
				177 ** 178 *	Initi	alize operand data	(move data to testing address)		
00053E 000542	58A0 5018 58B0 5008		000018	179 180	L L	R10,OP1WHERE R11,OP1LEN	Where to move operand-1 data to operand-1 length		
000546 00054A 00054E	50B0 501C 5860 5004 5870 5008		00001C 000004 000008	181 182 183	ST L L	R11,OP1WLEN R6,OP1DATA R7,OP1LEN	and save for later Where op1 data is right now How much of it there is		
000552	0EA6			184 185 *	MVCL	R10,R6			
000554 000558 00055C 000560	58A0 5014 58B0 5010 5860 500C 5870 5010		000014 000010 00000C 000010	186 187 188 189	L L L	R10,OP2WHERE R11,OP2LEN R6,OP2DATA R7,OP2LEN	Where to move operand-2 data to How much of it there is Where op2 data is right now How much of it there is		
000564	0EA6			190	MVCL	R10,R6			
				192 * 193 ** 194 *	Next,	time the overhead.			
00056A	5870 DD8C B205 DD90 9014 D210		000F8C 000F90 000410	195 196 197	L STCK STM	R7,NUMLOOPS BEGCLOCK R1,R4,SAVE1T4			
000572	0560		00001/	198 199	BALR	R6,0	got IDIE onemande		
	9814 5014 4710 D374 9814 5014		000014 000574 000014	200 201 202	LM BC LM	R1,R4,OPSWHERE B'0001',*-4 R1,R4,OPSWHERE	get TRTE operands not finished		
000580	4710 D384		000584	203 204 * 205	PRINT	B'0001',*+4 ETC OFF			
	9814 5014 4710 D68C		000014 00088C	400 401 402	PRINT LM BC	R1,R4,OPSWHERE B'0001',*+4			
	9814 5014 4710 D694		000014 000894	403 404 405 *	LM BC	R1,R4,OPSWHERE B'0001',*+4			

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT						
000894 000896 00089A 00089E	0676 B205 DD98 45F0 DC08 D207 DDA8 DDA0	000FA8	000F98 000E08 000FA0	406 407 408 409 410 *	BCTR STCK BAL MVC	R7,R6 ENDCLOCK R15,CALCDUR OVERHEAD,DURATION				
				411 ** 412 *	Now d	o the actual timing	run			
0008A4 0008A8 0008AC	5870 DD8C B205 DD90 0560		000F8C 000F90	413 414 415 416 *	STCK BALR	R7,NUMLOOPS BEGCLOCK R6,0				
0008AE 0008B2 0008B6	9814 5014 B9BF C024 4710 D6B2		000014 0008B2	417 418 419	LM TRTE BC	R1,R4,OPSWHERE R2,R4,12 B'0001',*-4	Load TRTE operands do TRTE not finished?			
0008BA 0008BE 0008C2	9814 5014 B9BF C024 4710 D6BE		000014 0008BE	420 421 422 423 *	LM TRTE BC	R1,R4,OPSWHERE R2,R4,12 B'0001',*-4	Load TRTE operands do TRTE not finished?			
				424 725	PRINT PRINT	OFF				
000D46 000D4A 000D4E	9814 5014 B9BF C024 4710 DB4A		000014 000D4A	726 727 728	LM TRTE BC	R1,R4,OPSWHERE R2,R4,12 B'0001',*-4				
000D52 000D56 000D5A	9814 5014 B9BF C024 4710 DB56		000014 000D56	729 730 731	LM TRTE BC	R1,R4,OPSWHERE R2,R4,12 B'0001',*-4				
000D5E 000D60	0676 B205 DD98		000F98	732 * 733 734	BCTR STCK	R7,R6 ENDCLOCK				
000D64 000D68	9814 D210 D204 DDE9 DD80	000FE9	000410 000F80	735 * 736 737	LM MVC	R1,R4,SAVE1T4 PRTLINE+33(5),=CL5	'TRTE'			
000D6E	45F0 DB86		000D86		BAL re perfor	R15,RPTSPEED mance tests				
000D76	5850 D224 4150 5034	0.0057/	000424	741 * 742 743	L LA	R5,SAVER5 R5,TRTENEXT	restore perf table base Go on to next table entry			
	D503 DD74 5000 4770 D332 07FE	000F74	000000 000532	744 745 746	CLC BNE BR	=F'0',0(R5) TST91LOP R14	End of table? No, loop Return to caller or FAILTEST			

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT					
				749 *	RPTSP	EED	**************************************		
000D86	50F0 DBF0		000DF0	752 RPTSPEED	ST	R15,RPTSAVE	Save return address		
000D8A	5050 DBF4		000DF4	753	ST	R5, RPTSVR5	Save R5		
000D8E	45F0 DC08		000E08	754 * 755	BAL	R15,CALCDUR	Calculate duration		
000D92 000D96	4150 DDA8 4160 DDA0		000FA8 000FA0	756 * 757 758	LA LA	R5,OVERHEAD R6,DURATION	Subtract overhead From raw timing		
000D9A 000D9E	4170 DDA0 45F0 DC5C		000FA0 000E5C	759 760 761 *	LA BAL	R7, DURATION R15, SUBDWORD	Yielding true instruction timing Do it		
000DA2 000DA6	98AB DDA0 8CA0 000C		000FA0 00000C	762 763 764 *	LM SRDL	R10,R11,DURATION R10,12	Convert to microseconds		
000DAA 000DAE	4EA0 DDB0 4EB0 DDB8		000FB0 000FB8	765 766 767 *	CVD CVD	R10,TICKSAAA R11,TICKSBBB	convert HIGH part to decimal convert LOW part to decimal		
000DB2 000DB8 000DBE	F877 DDC0 DDB0 FC75 DDC0 DD85 FA77 DDC0 DDB8	000FC0 000FC0 000FC0	000FB0 000F85 000FB8	768 769 770	ZAP MP AP	TICKSTOT,TICKSAAA TICKSTOT,=P'429496 TICKSTOT,TICKSBBB	Calculate 7296'decimal microseconds		
000DC4 000DCA	D20B DDF3 DE0C DE0B DDF3 DDC3	000FF3 000FF3	00100C 000FC3	771 * 772 773	MVC ED	PRTLINE+43(L'EDIT) PRTLINE+43(L'EDIT)			
				775 * 776 * 777 *	Use H	ercules Diagnose fo	r Message to console		
	9002 DBF8 4100 0044 4110 DDC8		000DF8 000044 000FC8	778 779 780	STM LA LA	R0,R2,RPTDWSAV R0,PRTLNG R1,PRTLINE	save regs used by MSG message length messagfe address		
000DDC	4520 DC90 9802 DBF8		000E90 000DF8	781 782	BAL LM	R2,MSG R0,R2,RPTDWSAV	call Hercules console MSG display restore regs		
000DE4 000DE8	5850 DBF4 58F0 DBF0		000DF4 000DF0	784 785	L L	R5,RPTSVR5 R15,RPTSAVE	Restore R5 Restore return address		
000DEC	07FF			786	BR	R15	Return to caller		
000DF0 000DF4	00000000 00000000			788 RPTSAVE 789 RPTSVR5		F'0' F'0'	R15 save area R5 save area		
000DF8	0000000 00000000			791 RPTDWSAV	DC	2D'0'	R0-R2 save area for MSG call		

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LOC	OBJECT CODE	ADDR1 ADDR2	STMT						
			794	*	CALCD	UR	**************************************		
			793	****	****	*****	*****		
000E08	50F0 DC4C	000E40	797	CALCDUR	ST	R15,CALCRET			
000E0C	9057 DC50	000E50	798 799	*	STM	R5,R7,CALCWORK	Save work registers		
000E10	9867 DD90	000F90			LM	R6, R7, BEGCLOCK	Remove CPU number from clock value		
000E14	8C60 0006	000000			SRDL	R6,6	"		
000E18	8D60 0006	000000			SLDL	R6,6	 II		
000E1C	9067 DD90	000F90	803 804	+	STM	R6,R7,BEGCLOCK			
000E20 000E24	9867 DD98 8C60 0006	000F98 000006	805	^	LM SRDL	R6,R7,ENDCLOCK R6,6	Remove CPU number from clock value		
000E28	8D60 0006	000000			SLDL	R6,6	П		
000E2C	9067 DD98	000F98		*	STM	R6, R7, ENDCLOCK	II .		
000E30	4150 DD90	000F90			LA	R5,BEGCLOCK	Starting time		
000E34	4160 DD98	000F98			LA	R6, ENDCLOCK	Ending time		
000E38	4170 DDA0	000FA(LA	R7, DURATION	Difference		
000E3C	45F0 DC5C	000E50	813 814	*	BAL	R15,SUBDWORD	Calculate duration		
000E40	9857 DC50	000E50			LM	R5,R7,CALCWORK	Restore work registers		
000E44 000E48	58F0 DC4C 07FF	000E40	816 817		L BR	R15,CALCRET R15	Restore return address Return to caller		
000E4C 000E50	00000000 00000000 00000000			CALCRET CALCWORK	DC DC	F'0' 3F'0'	R15 save area R5-R7 save area		
			823 824	* *	SUBDW R5	ORD > subtrahend, R6	**************************************		
			023						
000E5C	9014 DC80	000E80		SUBDWORD	STM	R1,R4,SUBDWSAV	Save registers		
	9812 5000 9834 6000	00000		*	LM LM	R1,R2,0(R5) R3,R4,0(R6)	Subtrahend (value to subtract) Minuend (what to subtract FROM)		
	1F42		831		SLR	R4, R2	Subtract LOW part		
	47B0 DC72	000E72			BNM	*+4+4	(branch if no borrow)		
	5F30 DD78	000F78			SL	R3,=F'1'	(otherwise do borrow)		
	1F31 9034 7000	00000	834 835 836	*	SLR STM	R3,R1 R3,R4,0(R7)	Subtract HIGH part Store results		
000E78	9814 DC80	000E80			LM	R1,R4,SUBDWSAV	Restore registers		
000E7C		000100	838		BR	R15	Return to caller		
000E80	00000000 00000000		840	SUBDWSAV	DC	2D'0'	R1-R4 save area		

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT					
				843 * 844 *	Issue	HERCULES MESSAGE point R2 = return address	**************************************		
000E90 000E94	4900 DD7C 07D2		000F7C	847 MSG 848	CH BNHR	R0,=H'0' R2	Do we even HAVE a message? No, ignore		
000E96	9002 DCC8		000EC8	850	STM	R0,R2,MSGSAVE	Save registers		
000E9A 000E9E 000EA2	4900 DD7E 47D0 DCA6 4100 005F		000F7E 000EA6 00005F	852 853 854	CH BNH LA	R0,=AL2(L'MSGMSG) MSGOK R0,L'MSGMSG	Message length within limits? Yes, continue No, set to maximum		
000EA6 000EA8 000EAA	1820 0620 4420 DCD4		000ED4	856 MSGOK 857 858	LR BCTR EX	R2,R0 R2,0 R2,MSGMVC	Copy length to work register Minus-1 for execute Copy message to O/P buffer		
000EAE 000EB2	4120 200A 4110 DCDA		00000A 000EDA	860 861	LA LA	R2,1+L'MSGCMD(,R2) R1,MSGCMD	Calculate true command length Point to true command		
000EB6 000EBA 000EBE	83120008 4780 DCC0 0000		000EC0	863 864 865	DC BZ DC	X'83',X'12',X'0008' MSGRET H'0'	Issue Hercules Diagnose X'008' Return if successful CRASH for debugging purposes		
000EC0 000EC4	9802 DCC8 07F2		000EC8	867 MSGRET 868	LM BR	R0,R2,MSGSAVE R2	Restore registers Return to caller		
000EC8 000ED4	00000000 00000000 D200 DCE3 1000	000EE3	000000	870 MSGSAVE 871 MSGMVC	DC MVC	3F'0' MSGMSG(0),0(R1)	Registers save area Executed instruction		
000EDA 000EE3	D4E2C7D5 D6C8405C 40404040 40404040			873 MSGCMD 874 MSGMSG	DC DC	C'MSGNOH * ' CL95' '	*** HERCULES MESSAGE COMMAND *** The message text to be displayed		

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LOC	OBJECT CODE		ADDR2									J	
				876 877	*****	Norma	l completion	or Abnorma	************ al termination ******	PSWs			
	00020001 80000000		0005/0				0D'0',X'0002			ion			
000158	B2B2 DD48		000148	882	EOJ	LPSWE	EOJPSW	ľ	Normal complet	1011			
000F60	00020001 80000000			884	FAILPSW	DC	0D'0',X'0002	0001800000	000',AD(X'BAD')			
000F70	B2B2 DD60		000F60	886	FAILTEST	LPSWE	FAILPSW	ļ	Abnormal termi	nation			

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LOC	OBJECT C	CODE	ADDR1	ADDR2	STMT					
					889 *	Worki	ng Storage	**************************************		
000F78	00000000 00000001				892 893 894	LTORG	= F ' 0 ' = F ' 1 '	Literals pool		
000F7E 000F80	0000 005F E3D9E3C5 40 04294967 29				895 896 897 898		=H'0' =AL2(L'MSGMSG) =CL5'TRTE' =P'4294967296'			
000103	W4294907 29	,,,,	000400 001000 010000	000001 000001 000001	900 K 901 PAGE 902 K64	EQU EQU EQU	1024 (4*K) (64*K)	One KB Size of one page 64 KB		
			100000	000001	903 MB	EQU	(K*K)	1 MB		
000F8C	00002710				905 NUMLOOP	S DC	F'10000'	10,000 * 100 = 1,000,000		
000FA0	BBBBBBB BB EEEEEEEE EE DDDDDDDD DD FFFFFFFF FF	EEEEEE DDDDDDD			907 BEGCLOC 908 ENDCLOC 909 DURATIO 910 OVERHEA	K DC N DC	0D'0',8X'BB' 0D'0',8X'EE' 0D'0',8X'DD' 0D'0',8X'FF'	Begin End Diff Overhead		
000FB0 000FB8	00000000 00 00000000 00 00000000 00	000000C			912 TICKSAA 913 TICKSBB 914 TICKSTO	A DC B DC	PL8'0' PL8'0' PL8'0'	Clock ticks high part Clock ticks low part Total clock ticks		
000FEE	40404040 40 40A39696 92 40202020 6B	240F9F9	000044	000001	916 PRTLINE 917 918 PRTLNG 919 EDIT	DC DC EQU DC	C' 1,000 C' took 999,999, *-PRTLINE X'402020206B2020	0,000 iterations of XXXXX' ,999 microseconds' 0206B202120'		

ASMA Ve	r. 0.2.1	TRTE-0	02-perfor	mance ((Test TR	TE ins	tructions)	09 Oct 2022 18:37:28 Page 12
LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				922 +	k	TRTET	EST DSECT	*********
	0 0 0 0 0 0			925 1 926 1 927 928	TRTETEST TNUM	DSECT DC DC DC	, X'00' X'00' X'00'	TRTE table Number
000003	00			929 N	М 3	DC	X'00'	M3 byte stored into TRTE instruction
00000C	00000000 00000000 00000000 00000000			932 (933 (OP1DATA OP1LEN OP2DATA OP2LEN	DC	A(0) F'0' A(0) F'0'	Pointer to Operand-1 data How much data is there - 1 Pointer to FC table data How much data is there - FC Table
		000014	000001	936 (OPSWHERE	EQU	*	
00001C	00000000 00000000 00000000			938 (939 (OP2WHERE OP1WHERE OP1WLEN	DC DC	A(0) A(0) F'0'	Where FC Table data should be placed Where Operand-1 data should be placed How much data is there - 1
000020	0000000			940		DC	A(0)	pollute - found FC
000024	00000000			942 F	FAILMASK	DC	A(0)	Failure Branch on Condition mask
00002C	00000000 00000000 00000000			944 9 945 E 946 947	ENDREGS	DC DC DC	A(0) A(0) A(0)	Ending register values Operand 1 address Operand 1 length Function Code
		000034	000001	949 1	TRTENEXT	EQU	*	Start of next table entry
			000001 000001		REG2PATT REG2LOW		X'AABBCCDD' X'DD'	Polluted Register pattern (last byte above)

ASMA Ve	r. 0.2.1	TRTE-0	2-perfor	mance	(Test TR	RTE ins	tructions)	09 Oct 2	022 18:37:28	Page	13
LOC	OBJECT CODE	ADDR1	ADDR2	STMT							
		000000	0C3BED		TRTE2TST			******	*****		
				956	*	TRTE	Performace Test da	ata			
001018							0A(0) start	**************************************	*****		
								******	*****		
				961 962		tests		=1,L=0, reserved=0 (12) = SIZE: 131,072 (2 BYTE ARGU	MENT)		
				963 964	*			Function Code is 2 bytes	· · - · · · <i>,</i>		
				965		lllll		must be a multiple of 2			
				900	*****	*****	*****	*******	****		
001018					F12T8	DS	0 F				
001018 001019	F8 0000			969 970		DC DC	X'F8' X'00',X'00'	Test Num			
001019 00101B	C0			971		DC	X'C0'	M3: $A=1, F=1, L=0$,	= Ø		
	000013F0 00000200			972		DC	A(TRTOP1F1), A(512	Source - Op 1 &	length		
001024	000A39EE 00020000			973 974	.i.	DC	A(TRTOPCF1),A(2*I		e & length		
00102C	00710000 00910000			974	*	DC	A(7*MB+(1*K64)).	Target - A(9*MB+(1*K64)),A(0) FC, Op	1. On1		
	AABBCCDD			976		DC	A(REG2PATT)	(() (1) (1 (() ()))	1, 0p12		
	0000000B			977		DC	A(11) CC1	10) 1/0) 1/151			
001040	009101FE 00000002			978		DC	A(9*MB+(1*K64)+5	10),A(2),XL4'F1'			
001016				000	E42T0A	D.C	0.5				
00104C 00104C	F9			980 981	F12T8A	DS DC	0F X'F9'	Test Num			
00104D	0000			982		DC	X'00',X'00'	rese Hum			
00104F	C0			983		DC	X'C0'	M3: $A=1, F=1, L=0,$	= Ø		
001050 001058	000013F0 00000200 000A39EE 00020000			984 985		DC DC	A(TRTOP1F1),A(512 A(TRTOPCF1),A(2*I		length		
001030	000MJ9LL 000Z0000			986	*	DC	A(INTUFCI 1), A(2*1	Target - FC, Op1			
001060	0072FF81 0092FF81			987		DC		27),A(9*MB+(3*K64)-127),A(0)	, ,		
	AABBCCDD			988		DC	A(REG2PATT)				
001070	0000000A 0093017F 00000002			989 990		DC DC	A(10) CC1 or CC3 $A(9*MR+(3*K64)-13)$	27+510),A(2),XL4'F1'			
001071	00000002			<i>,</i>		DC	M() MID (O M (O I) 12	17.310) , 11(2) , 11			
001080					F12T11	DS	0 F				
001080	FB			993		DC	X'FB'	Test Num			
001081 001083	0000 C0			994 995		DC DC	X'00',X'00' X'C0'	M3: $A=1, F=1, L=0$,	= Ø		
301000				,,,		20	,. 	,, 1,1 0,	· ·		

ASMA Ve	r. 0.2.1	TRTE-0	02-perfor	mance (Test Ti	RTE ins	tructions)	09 Oct 2022 18:37:28 Page 14	
LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
001084 00108C	000025F0 00000800 000837F0 00020000			996 997	DC DC	A(TRT01LF0),A(2048) A(TRT0PCF0),A(2*K64)	Source - Op 1 & length Source - FC Table & length	
001094 0010A0 0010A4	00760000 00960000 AABBCCDD 0000000B			998 * 999 1000 1001	DC DC DC	A(7*MB+(6*K64)),A(9*MB A(REG2PATT) A(11) CC1	Target - +(6*K64)),A(0) FC, Op1, Op1L	
0010A4 0010A8	009607FE 00000002			1002	DC	A(9*MB+(6*K64)+2048-2)	,A(2),XL4'F0'	
0010B4 0010B4 0010B5	FC 0000			1004 F12T11A 1005 1006	DS DC DC	0F X'FC' X'00',X'00'	Test Num	
0010B7 0010B8 0010C0	C0 000025F0 00000800 000837F0 00020000			1007 1008 1009	DC DC DC	X'C0' A(TRTO1LF0),A(2048) A(TRTOPCF0),A(2*K64)	M3: A=1,F=1,L=0,=0 Source - Op 1 & length Source - FC Table & length	
0010C8 0010D4	0078FE1F 0098FE1F AABBCCDD			1010 * 1011 1012	DC DC	A(7*MB+(9*K64)-481),A(A(REG2PATT)	Target - FC, Op1, Op1L 9*MB+(9*K64)-481),A(0)	
0010D8 0010DC	0000000A 0099061D 00000002			1013 1014	DC DC	A(10) CC1 or CC3 A(9*MB+(9*K64)-481+204	8-2),A(2),XL4'F0'	
0010E8 0010EC	00000000 00000000			1016 1017	DC DC	A(0) end of tab A(0) end of tab		

ASMA Ve	er. 0.2.1	TRTE-0	02-perfor	mance (Test TRTE ins	structions)	09 Oct 202	12 18:37:28	Page	15
LOC	OBJECT CODE	ADDR1	ADDR2	STMT					
				1020 * TRTE	**************************************				
0010F0	78125634 78125634			1023 TRTOP10 DC	64XL4'78125634' (CC0				
0011F0	78125634 78125634			1025 TRTOP111 DC	04XL4'78125634',X'00110	000',59XL4'78125634'	(CC1)		
0012F0	78125634 78125634			1027 TRTOP1F0 DC	63XL4'78125634',X'00000	0F0' (CC1)			
0013F0	78125634 78125634			1029 TRTOP1F1 DC	127XL4'78125634',X'0000	00F1' (CC1)			
0015F0	98765432 98765432			1031 TRT01L0 DC	512XL4'98765432' (CC	0)			
001DF0	98765432 98765432			1033 TRT01L11 DC	256XL4'98765432',X'0011	0000',255XL4'98765432'	(CC1)		
0025F0	98765432 98765432			1035 TRTO1LF0 DC 1036	511XL4'98765432',X'0000	00F0' (CC1)			

ASMA Ve	r. 0.2.1	TRTE-0	2-perfor	mance (Tes	: TRTE in	nstructions)	09 Oct 2022	2 18:37:28 Page	16
LOC	OBJECT CODE	ADDR1	ADDR2	STMT					
				1039 *	Fund	ction Code (FC) Table	**************************************		
002DF0	0000000 00000000			1042 TRTO	20 DC	256X'00'	no stop		
002EF0		002EF0	022EF0	1043	ORG	*+2*K64			
022EF0	00000000 00000000			1045 TRTO	211 DC	17X'00',X'11',238X	'00' stop on X'11'		
022FF0	00000000 00000000			1047 TRTO	P2F0 DC	240X'00',X'F0',15X	'00' stop on X'F0'		
0230F0	00000000 00000000			1049 TRTO	9411 DC	34X'00',X'0011',47	6X'00' stop on X'11'		
0232F0	00000000 00000000			1051 TRTO	P4F0 DC	480X'00',X'00F0',3	0X'00' stop on X'F0'		
0234F0 0235F0	00000000 00000000	0235F0	0435F0	1053 TRTO 1054	9811 DC ORG	17X'00',X'11',238X *+2*K64	'00' stop on X'11'		
0435F0 0436F0	00000000 00000000	0436F0	0636F0	1056 TRTO 1057	P8F0 DC ORG	240X'00',X'F0',15X *+2*K64	'00' stop on X'F0'		
0636F0 0637F0	00000000 00000000	0637F0	0837F0	1059 TRTO 1060	98F1 DC ORG	240X'00',X'00',X'F *+2*K64	1',14X'00' stop on X'F1'		
0837F0 0839EE	00000000 00000000	0839EE	0A39EE	1061 1062 TRTO 1063	PCF0 DC ORG	480X'00',X'00F0',2 *+2*K64	·		
0A39EE 0A3BEE	00000000 00000000	0A3BEE	0C3BEE	1064 * 1065 TRTO 1066	PCF1 DC ORG	480X'00',X'0000',X *+2*K64	stop on X'F1' '00F1',28X'00'		

ASMA Ver.	0.2.1	TRTE-0	2-perfor	mance ((Test T	RTE ins	tructions)		09 Oct	t 2022	18:37:28	Page	17
LOC	OBJECT CODE	ADDR1	ADDR2	STMT									
	OBJECT CODE	000000 000001 000002 000003 000004 000005 000006 000007 000008 000009 000000B 000000C 00000D	000001 000001 000001 000001 000001 000001 000001 000001 000001 000001	1068 : 1069 : 1070 : 1070 : 1073 : 1074 : 1075 : 1076 : 1077 : 1078 : 1080 : 1081 : 1082 : 1083 : 1084 : 1085 : 1086 : 1086 : 1086	* ****** R0 R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14	Regis ***** EQU EQU	13						
				1089		END							

ASMA Ver. 0.2.1		TRTE-0	2-performar	ice (Te	st TRT	E inst	ructio	ns)					09 Oct	2022	18:37:2	8 Pag	ge	18
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES												
BEGCLOCK	D	00000F90	8	907	196	414	800	803	810									
EGIN	I	00000200	2	114	145	80	111	112										
ALCDUR	I	00000E08	4	797	408	755												
ALCRET	F	00000E4C	4	819	797	816												
ALCWORK	F	00000E50	4	820	798	815												
URATION	D	00000FA0	8	909	409	758	759	762	812									
DIT	X	0000100C	12	919	772	773	7 3 7	702	012									
NDCLOCK	D	0000100C	8	908	407	734	805	808	811									
NDREGS		00000198	4	945	407	734	003	000	011									
	A T	00000028 00000F58	4	882	1 2 1	120												
:0J	_		•		131	139												
OJPSW	D	00000F48	8	880	882													
12T11	F	00001080	4	992														
12T11A	F	000010B4	4	1004														
T12T8	F	00001018	4	968														
-12T8A	F	0000104C	4	980														
AILMASK	Α	00000024	4	942														
FAILPSW	D	00000F60	8	884	886													
AILTEST	I	00000F70	4	886	134	137												
MAGE	1	00000000	801774	0	13 1	157												
, , , , , , , , , , , , , , , , , , ,	Ū	00000400	1	900	901	902	903											
.64	U	00010000	1	902	1043	1054	1057	1060	1063	1066	973	975	978	985	987	990	997	
.04	U	0001000	1	902						1000	9/3	9/5	9/0	900	907	990	997	
12		00000000	4	000	999	1002	1009	1011	1014									
13	X	00000003	1	929														
IB .	U	00100000	1	903	975	978	987	990	999	1002	1011	1014						
ISG	Ι	00000E90	4	847	781													
1SGCMD	С	00000EDA	9	873	860	861												
1SGMSG	C	00000EE3	95	874	854	871	852											
1SGMVC	I	00000ED4	6	871	858													
1SG0K	I	00000EA6	2	856	853													
ISGRET	T	00000EC0	4	867	864													
ISGSAVE	F	00000EC8	4	870	850	867												
IUMLOOPS	F	00000EC0	4	905	195	413												
P1DATA			4			413												
	A	00000004	;	931	182	100												
P1LEN	F	00000008	4	932	180	183												
)P1WHERE	A	00000018	4	938	179													
P1WLEN	F	0000001C	4	939	181													
)P2DATA	А	0000000C	4	933	188													
)P2LEN	F	00000010	4	934	187	189												
)P2WHERE	А	00000014	4	937	186													
)PSWHERE	U	00000014	1	936	200	202	207	209	211	213	215	217	219	221	223	225	227	
			_		229	231	233	235	237	239	241	243	245	247	249	251	253	
					255	257	259	261	263	265	267	269	271	273	275	277	279	
					281	283	285	287	289	291	293	295	297	299	301	303	305	
					307	309	311	313	315	317	319	321	323	325	327	329	331	
					333	335	337	339	341	343	345	347	349	351	353	355	357	
					359	361	363	365	367	369	371	373	375	377	379	381	383	
					385	387	389	391	393	395	397	401	403	417	420	427	430	
					433	436	439	442	445	448	451	454	458	461	464	467	470	
					473	476	479	482	485	489	492	495	498	501	504	507	510	
					513	516	520	523	526	529	532	535	538	541	544	547	551	
					554	557	560	563	566	569	572	575	578	582	585	588	591	
					594	597	600	603	606	609	613	616	619	622	625	628	631	

ASMA Ver. 0.2.1		TRTE-0	2-performar	ice (Te	st TRT	E inst	ruction	ıs)					09 Oct	2022	18:37:	28 Pag	ge 19
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERE	ENCES											
					634 675	637 678	640 681	644	647 687	650 690	653 693	656 696	659 699	662 702	665 706	668 709	671 712
OVERHEAD PAGE	D U	00000FA8 00001000	8 1	910 901	715 409	718 757	721	726	729								
PRTLINE PRTLNG R0	C U U	00000FC8 00000044 00000000	38 1 1	916 918 1072	918 779 76	737 778	772 779	773 782	780 847	850	852	854	856	867			
R1	Ü	00000001	1	1073	197 227	200 229	202 231	207 233	209 235	211 237	213 239	215 241	217 243	219 245	221 247	223 249	225 251
					253 279 305	255 281 307	257 283 309	259 285 311	261 287 313	263 289 315	265 291 317	267 293 319	269 295 321	271 297 323	273 299 325	275 301 327	277 303 329
					331 357 383	333 359 385	335 361 387	337 363 389	339 365 391	341 367 393	343 369 395	345 371 397	347 373 401	349 375 403	351 377 417	353 379 420	355 381 427
					430 470 510	433 473 513	436 476 516	439 479 520	442 482 523	445 485 526	448 489 529	451 492 532	454 495 535	458 498 538	461 501 541	464 504 544	467 507 547
					551 591	554 594	557 597	560 600	563 603	566 606	569 609	572 613	575 616	578 619	582 622	585 625	588 628
					631 671 712	634 675 715	637 678 718	640 681 721	644 684 726	647 687 729	650 690 736	653 693 780	656 696 827	659 699 829	662 702 834	665 706 837	668 709 861
R10	U	0000000A	1	1082	871 179	184	186	190	762	763	765						
R11 R12 R13	U U U	00000000B 00000000C 0000000D	1 1 1	1083 1084 1085	180 111	181 114	187 115	762 116	766 118								
R14 R15 R2	U U U	0000000E 0000000F 00000002	1 1 1	1086 1087 1074	124 408 418	166 738 421	746 752 428	755 431	760 434	785 437	786 440	797 443	813 446	816 449	817 452	838 455	459
					462 502 542	465 505 545	468 508 548	471 511 552	474 514 555	477 517 558	480 521 561	483 524 564	486 527 567	490 530 570	493 533 573	496 536 576	499 539 579
					583 623 663	586 626 666	589 629 669	592 632 672	595 635 676	598 638 679	601 641 682	604 645 685	607 648 688	610 651 691	614 654 694	617 657 697	620 660 700
D 3	11	00000003	1	1075	703 831 830	707 848 833	710 850 834	713 856 835	716 857	719 858	722 860	727 867	730 868	778	781	782	829
R3 R4	U	00000004	1	1075	197 227 253	200 229 255	202 231 257	207 233 259	209 235 261	211 237 263	213 239 265	215 241 267	217 243 269	219 245 271	221 247 273	223 249 275	225 251 277
					279 305	281 307	283 309	285 311	287 313	289 315	291 317	293 319	295 321	297 323	299 325	301 327	303 329
					331 357 383	333 359 385	335 361 387	337 363 389	339 365 391	341 367 393	343 369 395	345 371 397	347 373 401	349 375 403	351 377 417	353 379 418	355 381 420
					421 445 465	427 446 467	428 448 468	430 449 470	431 451 471	433 452 473	434 454 474	436 455 476	437 458 477	439 459 479	440 461 480	442 462 482	443 464 483

ASMA Ver. 0.2.1		TRTE-0	2-performar	nce (Te	st TRTE	inst	ructio	ns)					09 Oct	2022	18:37:	28 Pa	ge	20
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERE	NCES												
					485	486	489	490	492	493	495	496	498	499	501	502	504	
					505	507	508	510	511	513	514	516	517	520	521	523	524	
					526	527	529	530	532	533	535	536	538	539	541	542	544	
					545	547	548	551	552	554	555	557	558	560	561	563	564	
					566	567	569	570	572	573	575	576	578	579	582	583	585	
					586	588	589	591	592	594	595	597	598	600	601	603	604	
					606	607	609	610	613	614	616	617	619	620	622	623	625	
					626	628	629	631	632	634	635	637	638	640	641	644	645	
					647	648	650	651	653	654	656	657	659	660	662	663	665	
					666	668	669	671	672	675	676	678	679	681	682	684	685	
					687	688	690	691	693	694	696	697	699	700	702	703	706	
					707	709	710	712	713	715	716	718	719	721	702	703	700	
					707 729	730	736	827	830	831	835	837	7 1 9	/ 2 1	122	/ 2 0	121	
R5	U	00000005	1	1077	168	169	172	742	743	744	753	757	784	798	810	815	829	
R6	U	00000005	1	1077	174	175	182	184	188	190	198	406	415	733	758	800	801	
\ U	U		1	T 0 / O	802	803	805	806	807	808	811	830	417	133	730	000	OUI	
R7	U	00000007	1	1079	183	189	195	406	413	733	759	798	800	803	805	808	812	
\	U	0000007	1	IU/9	815	835	190	400	413	133	139	190	300	003	000	000	012	
88	U	00000008	1	1080	013	033												
R9	U	00000000	1	1080	112	118	119											
REG2LOW	U	00000009 000000DD	1	952	112	110	119											
REG2 LOW REG2 PATT	U	AABBCCDD	1	951	976	988	1000	1012										
RPTDWSAV		00000DF8	1	791	976 778	782	1000	1012										
RPTSAVE	D	00000DF0	8	788	752	785												
RPTSPEED	Г Т	00000DF0 00000D86	· ·	752	732	765												
RPTSVR5	I	00000DF4	4	732 789	753	707												
SAVE1T4	F	000000174	4	155	197	784 736												
SAVER2	r r	00000410	4		197	/30												
SAVERZ SAVER5	F		4	156	170	742												
SUBDWORD	F T	00000424	4	157	172	813												
SUBDWSAV	I	00000E5C	4	827	760 927	837												
	D	00000E80 00000401	8	840	827	03/												
SUBTEST	X		1	149	136													
TEST91	I	00000528	4	165	124													
TESTADDR	D	00000400	8	147	122	175												
TESTNUM TICKSAAA	X	00000400	1	148	133	175												
ΓΙCKSAAA ΓΙCKSBBB	P	00000FB0	8	912 913	765 766	768 770												
	P P	00000FB8	8		766 768	770 760	770	772										
TICKSTOT	•	00000FC0	8	914	768	769	770	773										
TIMEOPT	X	00000408	1	152	130	165												
NUM RTE2TST	X	00000000	L 00177/	926	174	0.7	0.6	76										
	J	00000000	801774	75	78	82	86	76										
RTENEXT	U	00000034	1	949 958	743 169													
RTEPERF RTETEST	A 4	00001018 00000000	52	958 925	168 169													
					109													
RT01L0 RT01L11	X	000015F0	4	1031														
	X	00001DF0	4	1033	006	1 0 0 0												
RTO1LF0	X	000025F0	4	1035	996	1008												
RTOP10	X	000010F0	4	1023														
RTOP111	X	000011F0	4	1025														
RTOP1F0	X	000012F0	4	1027	0.70	0.0.7												
FRTOP1F1	X	000013F0	4	1029	972	984												
「RTOP20	Χ	00002DF0	1	1042														

A Ver. 0.2.1		TRTE-0	2-performar	nce (Te	st TRTE instructions)	09 Oct 2022 18:37:	28 Page	2
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES			
OP211	Χ	00022EF0		1045				
OP2F0	Χ	00022FF0		1047				
OP411	Χ	000230F0		1049				
OP4F0	Χ	000232F0		1051				
OP811	Χ	000234F0		1053				
OP8F0	Χ	000435F0		1056				
OP8F1	Χ	000636F0	1	1059				
OPCF0	Χ	000837F0	1	1062	997 1009			
OPCF1	Χ	000A39EE	1	1065	973 985			
91L0P	U	00000532	1	171	745			
2(L'MSGMSG)	R	00000F7E	2	896	852			
5 TRTE'	С	00000F80	5	897	737			
0'	F	00000F74	4	893	744			
1'	F	00000F78	4	894	833			
0'	Н	00000F7C	2	895	847			
4294967296'	Р	00000F85	6	898	769			

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MACRO DEFN REFERENCES				
No defined macros				

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DESC	SYMBOL	SIZE	POS	ADDR				
ntry: 0								
mage Region	IMAGE	801774 801774	00000-C3BED	00000-C3BED				
CSECT	IRIEZISI	801//4	00000-C3BED	00000-C3BED				

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STMT	FILE NAME	
1 /devstor/dev/sa	tk/samples/tests/TRTE-02-performance.asm	
** NO ERRORS FOUND **		