

LOC	OBJECT CODE	ADDR1	ADDR2	STMT
				2 *****
				3 *
				4 * TRTE instruction tests
				5 *
				6 * NOTE: This test is based the CLCL-et-al Test
				7 * modified to only test the TRTE instruction.
				8 *
				9 * James Wekel August 2022
				10 *****
				12 *****
				13 *
				14 * TRTE basic instruction tests
				15 *
				16 *****
				17 * This program tests proper functioning of the TRTE
				18 * instructions. Specification exceptions are not tested.
				19 *
				20 * PLEASE NOTE that the tests are very SIMPLE TESTS designed to catch
				21 * obvious coding errors. None of the tests are thorough. They are
				22 * NOT designed to test all aspects of any of the instructions.
				23 *
				24 *****
				25 *
				26 * Example Hercules Testcase:
				27 *
				28 *
				29 * *Testcase TRTE-01-basic (Test TRTE instructions)
				30 *
				31 * archlvl 390
				32 * mainsize 3
				33 * numcpu 1
				34 * sysclear
				35 *
				36 * loadcore "\$(testpath)/TRTE-01-basic" 0x0
				37 *
				38 * runtest 1
				39 *
				40 * *Done
				41 *
				42 *
				43 *****

LOC	OBJECT CODE	ADDR1	ADDR2	STMT
			45	PRINT OFF
			3426	PRINT ON
			3428	*****
			3429	* SATK prolog stuff...
			3430	*****
			3432	ARCHLVL SET=2, ZARCH=NO, MNOTE=NO
			3434+\$AL	OPSYN AL
			3435+\$ALR	OPSYN ALR
			3436+\$B	OPSYN B
			3437+\$BAS	OPSYN BAS
			3438+\$BASR	OPSYN BASR
			3439+\$BC	OPSYN BC
			3440+\$BCTR	OPSYN BCTR
			3441+\$BE	OPSYN BE
			3442+\$BH	OPSYN BH
			3443+\$BL	OPSYN BL
			3444+\$BM	OPSYN BM
			3445+\$BNE	OPSYN BNE
			3446+\$BNH	OPSYN BNH
			3447+\$BNL	OPSYN BNL
			3448+\$BNM	OPSYN BNM
			3449+\$BNO	OPSYN BNO
			3450+\$BNP	OPSYN BNP
			3451+\$BNZ	OPSYN BNZ
			3452+\$B0	OPSYN B0
			3453+\$BP	OPSYN BP
			3454+\$BXLE	OPSYN BXLE
			3455+\$BZ	OPSYN BZ
			3456+\$CH	OPSYN CH
			3457+\$L	OPSYN L
			3458+\$LH	OPSYN LH
			3459+\$LM	OPSYN LM
			3460+\$LPSW	OPSYN LPSW
			3461+\$LR	OPSYN LR
			3462+\$LTR	OPSYN LTR
			3463+\$NR	OPSYN NR
			3464+\$SL	OPSYN SL
			3465+\$SLR	OPSYN SLR
			3466+\$SR	OPSYN SR
			3467+\$ST	OPSYN ST
			3468+\$STM	OPSYN STM
			3469+\$X	OPSYN X

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LOC	OBJECT CODE		ADDR1	ADDR2	STMT			
					3562 *****			
					3563 * TEST01	Test TRTE instruction		
					3564 *****			
000502	9201	8200		000400	3566 TEST01 MVI	TESTNUM, X' 01'		
					3567			
000506	4150	83EC		0005EC	3568	LA	R5, TRTECTL	Point R5 --> testing control table
00050A			000000		3569	USING	TRTETEST, R5	What each table entry looks like
					3570			
00050A	4360	5000	00050A	000001	3571 TST1LOOP EQU	*		
				000000	3572	IC	R6, TNUM	Set test number
00050E	4260	8200		000400	3573	STC	R6, TESTNUM	
					3574 *			
					3575 **	Initialize operand data (move data to testing address)		
					3576 *			
000512	58A0	5018		000018	3577	L	R10, OP1WHERE	Where to move operand-1 data to
000516	58B0	5008		000008	3578	L	R11, OP1LEN	operand-1 length
00051A	50B0	501C		00001C	3579	ST	R11, OP1WLEN	and save for later
00051E	5860	5004		000004	3580	L	R6, OP1DATA	Where op1 data is right now
000522	5870	5008		000008	3581	L	R7, OP1LEN	How much of it there is
000526	0EA6				3582	MVCL	R10, R6	
					3583 *			
000528	58A0	5014		000014	3584	L	R10, OP2WHERE	Where to move operand-2 data to
00052C	58B0	5010		000010	3585	L	R11, OP2LEN	How much of it there is
000530	5860	500C		00000C	3586	L	R6, OP2DATA	Where op2 data is right now
000534	5870	5010		000010	3587	L	R7, OP2LEN	How much of it there is
000538	0EA6				3588	MVCL	R10, R6	
					3590 **	Execute TRTE instruction and check for expected condition code		
00053A	9814	5014		000014	3592	LM	R1, R4, OPSWHERE	get TRTE input
					3593			
00053E	1B77				3594	SR	R7, R7	get M3 bits for TRTE
000540	4370	5003		000003	3595	IC	R7, M3	(M3)
000544	4270	8356		000556	3596	STC	R7, TRTEMOD+2	DYNAMICALLY MODIFIED CODE
					3597			
000548	58B0	5024		000024	3598	L	R11, FAILMASK	(failure CC)
00054C	89B0	0004		000004	3599	SLL	R11, 4	(shift to BC instr CC position)
					3600			
000550	9200	8201		000401	3601	MVI	SUBTEST, X' 00'	(primary TRT)
000554	B9BF	0024			3602	TRTEMOD	TRTE R2, R4, 0	Start with TRTE and m3=0
					3603			
000558	9014	83A8		0005A8	3604	STM	R1, R4, SAVETRT	(save R1/R4 results)
00055C	44B0	839E		00059E	3605	EX	R11, TRTEBC	fail if...
000560	4710	8354		000554	3606	BC	B' 0001', TRTEMOD	cc=3, not finished

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT						
		000000	0E3F4D	3667	TRTE1TST CSECT ,					
				3669	*****					
				3670	* TRTETEST DSECT					
				3671	*****					
				3673	TRTETEST DSECT ,					
000000	00			3674	TNUM	DC	X' 00'	TRTE table Number		
000001	00			3675		DC	X' 00'			
000002	00			3676		DC	X' 00'			
000003	00			3677	M3	DC	X' 00'	M3 byte stored into TRTE instruction		
				3679	OP1DATA	DC	A(0)	Pointer to Operand-1 data		
000008	00000000			3680	OP1LEN	DC	F' 0'	How much data is there - 1		
00000C	00000000			3681	OP2DATA	DC	A(0)	Pointer to FC table data		
000010	00000000			3682	OP2LEN	DC	F' 0'	How much data is there - FC Table		
		000014	000001	3684	OPSWHERE	EQU	*			
000014	00000000			3685	OP2WHERE	DC	A(0)	Where FC Table data should be placed		
000018	00000000			3686	OP1WHERE	DC	A(0)	Where Operand-1 data should be placed		
00001C	00000000			3687	OP1WLEN	DC	F' 0'	How much data is there - 1		
000020	00000000			3688		DC	A(0)	pollute - found FC		
000024	00000000			3690	FAILMASK	DC	A(0)	Failure Branch on Condition mask		
				3692	*			Ending register values		
000028	00000000			3693	ENDREGS	DC	A(0)	Operand 1 address		
00002C	00000000			3694		DC	A(0)	Operand 1 length		
000030	00000000			3695		DC	A(0)	Function Code		
		000034	000001	3697	TRTENEXT	EQU	*	Start of next table entry...		
		BBCCDD	000001	3699	REG2PATT	EQU	X' AABCCDD'	Polluted Register pattern		
		0000DD	000001	3700	REG2LOW	EQU	X' DD'	(last byte above)		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	
		000000	0E3F4D	3702	TRTE1TST CSECT ,
				3704	*****
				3705	* TRTE Testing Control tables (ref: TRTETEST DSECT)
				3706	*****
0005EC				3707	PRINT DATA
				3708	TRTECTL DC 0A(0) start of table
				3710	*****
				3711	* tests with M3: A=0, F=0, L=0, reserved=0 (0)
				3712	* FC Table = 1 byte
				3713	*****
0005EC				3715	MOT1 DS OF
0005EC	01			3716	DC X' 01' Test Num
0005ED	0000			3717	DC X' 00' , X' 00'
0005EF	00			3718	DC X' 00' M3: A=0, F=0, L=0
0005F0	0000142C	00000001		3719	DC A(TRTOP10), A(001) Source - 0p 1 & length
0005F8	0000312C	00000100		3720	DC A(TRTOP20), A(256) Source - FC Table & length
				3721	* Target -
000600	00110000	00210000		3722	DC A(1*MB+(1*K64)), A(2*MB+(1*K64)), A(0) FC, 0p1, 0p1L
000608	00000000				
00060C	AABBCCDD			3723	DC A(REG2PATT)
000610	00000007			3724	DC A(7) CC0
000614	00210001	00000000		3725	DC A(2*MB+(1*K64)+001), A(000), A(0)
00061C	00000000				
000620				3727	MOT2 DS OF
000620	02			3728	DC X' 02' Test Num
000621	0000			3729	DC X' 00' , X' 00'
000623	00			3730	DC X' 00' M3: A=0, F=0, L=0
000624	0000142C	00000002		3731	DC A(TRTOP10), A(002) Source - 0p 1 & length
00062C	0000312C	00000100		3732	DC A(TRTOP20), A(256) Source - FC Table & length
				3733	* Target -
000634	00120000	00220000		3734	DC A(MB+(2*K64)), A(2*MB+(2*K64)), A(0) FC, 0p1, 0p1L
00063C	00000000				
000640	AABBCCDD			3735	DC A(REG2PATT)
000644	00000007			3736	DC A(7) CC0
000648	00220002	00000000		3737	DC A(2*MB+(2*K64)+002), A(000), A(0)
000650	00000000				

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	
				3848	*****
				3849	* tests with M3: A=0, F=1, L=0, reserved=0 (4)
				3850	* FC Table = 2 bytes
				3851	*****
000828				3853	M4T1 DS OF
000828	41			3854	DC X' 41' Test Num
000829	0000			3855	DC X' 00' , X' 00'
00082B	40			3856	DC X' 40' M3: A=0, F=1, L=0
00082C	0000142C	00000001		3857	DC A(TRTOP10), A(001) Source - Op 1 & length
000834	0000312C	00000200		3858	DC A(TRTOP20), A(512) Source - FC Table & length
				3859	* Target -
00083C	00310000	00410000		3860	DC A(3*MB+(1*K64)), A(4*MB+(1*K64)), A(0) FC, Op1, Op1L
000844	00000000				
000848	AABBCCDD			3861	DC A(REG2PATT)
00084C	00000007			3862	DC A(7) CC0
000850	00410001	00000000		3863	DC A(4*MB+(1*K64)+001), A(000), A(0)
000858	00000000				
00085C				3865	M4T2 DS OF
00085C	42			3866	DC X' 42' Test Num
00085D	0000			3867	DC X' 00' , X' 00'
00085F	40			3868	DC X' 40' M3: A=0, F=1, L=0
000860	0000142C	00000002		3869	DC A(TRTOP10), A(002) Source - Op 1 & length
000868	0000312C	00000200		3870	DC A(TRTOP20), A(512) Source - FC Table & length
				3871	* Target -
000870	00320000	00420000		3872	DC A(3*MB+(2*K64)), A(4*MB+(2*K64)), A(0) FC, Op1, Op1L
000878	00000000				
00087C	AABBCCDD			3873	DC A(REG2PATT)
000880	00000007			3874	DC A(7) CC0
000884	00420002	00000000		3875	DC A(4*MB+(2*K64)+002), A(000), A(0)
00088C	00000000				
000890				3877	M4T3 DS OF
000890	43			3878	DC X' 43' Test Num
000891	0000			3879	DC X' 00' , X' 00'
000893	40			3880	DC X' 40' M3: A=0, F=1, L=0
000894	0000142C	00000004		3881	DC A(TRTOP10), A(004) Source - Op 1 & length
00089C	0000312C	00000200		3882	DC A(TRTOP20), A(512) Source - FC Table & length
				3883	* Target -
0008A4	00340000	00440000		3884	DC A(3*MB+(4*K64)), A(4*MB+(4*K64)), A(0) FC, Op1, Op1L
0008AC	00000000				
0008B0	AABBCCDD			3885	DC A(REG2PATT)
0008B4	00000007			3886	DC A(7) CC0
0008B8	00440004	00000000		3887	DC A(4*MB+(4*K64)+004), A(000), A(0)

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
0008C0	00000000						
0008C4				3889	M4T4	DS	0F
0008C4	44			3890		DC	X' 44'
0008C5	0000			3891		DC	X' 00' , X' 00'
0008C7	40			3892		DC	X' 40'
0008C8	0000142C	00000008		3893		DC	A(TRTOP10) , A(008)
0008D0	0000312C	00000200		3894		DC	A(TRTOP20) , A(512)
				3895	*		Target -
0008D8	00340000	00440000		3896		DC	A(3*MB+(4*K64)) , A(4*MB+(4*K64)) , A(0) FC, Op1, Op1L
0008E0	00000000						
0008E4	AABBCCDD			3897		DC	A(REG2PATT)
0008E8	00000007			3898		DC	A(7) CC0
0008EC	00440008	00000000		3899		DC	A(4*MB+(4*K64)+008) , A(000) , A(0)
0008F4	00000000						
0008F8				3901	M4T5	DS	0F
0008F8	45			3902		DC	X' 45'
0008F9	0000			3903		DC	X' 00' , X' 00'
0008FB	40			3904		DC	X' 40'
0008FC	0000142C	00000100		3905		DC	A(TRTOP10) , A(256)
000904	0000312C	00000200		3906		DC	A(TRTOP20) , A(512)
				3907	*		Target -
00090C	00350000	00450000		3908		DC	A(3*MB+(5*K64)) , A(4*MB+(5*K64)) , A(0) FC, Op1, Op1L
000914	00000000						
000918	AABBCCDD			3909		DC	A(REG2PATT)
00091C	00000007			3910		DC	A(7) CC0
000920	00450100	00000000		3911		DC	A(4*MB+(5*K64)+256) , A(000) , A(0)
000928	00000000						
00092C				3913	M4T6	DS	0F
00092C	46			3914		DC	X' 46'
00092D	0000			3915		DC	X' 00' , X' 00'
00092F	40			3916		DC	X' 40'
000930	0000152C	00000100		3917		DC	A(TRTOP111) , A(256)
000938	0002342C	00000200		3918		DC	A(TRTOP411) , A(512)
				3919	*		Target -
000940	0035FFE0	0045FFF4		3920		DC	A(3*MB+(6*K64)-32) , A(4*MB+(6*K64)-12) , A(0) FC, Op1, Op1L
000948	00000000						
00094C	AABBCCDD			3921		DC	A(REG2PATT)
000950	0000000A			3922		DC	A(10) CC1 or CC3
000954	00460005	000000EF		3923		DC	A(4*MB+(6*K64)-12+X' 11') , A(256-X' 11') , XL4' 11'
00095C	00000011						

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT			
000960					3925	M4T7	DS	0F
000960	47				3926		DC	X' 47'
000961	0000				3927		DC	X' 00' , X' 00'
000963	40				3928		DC	X' 40'
000964	0000162C	00000100			3929		DC	A(TRTOP1F0) , A(256)
00096C	0002362C	00000200			3930		DC	A(TRTOP4F0) , A(512)
					3931	*		Target -
000974	00370000	0046FFF4			3932		DC	A(3*MB+(7*K64)) , A(4*MB+(7*K64)-12) , A(0) FC, 0p1, 0p1L
00097C	00000000							
000980	AABBCCDD				3933		DC	A(REG2PATT)
000984	0000000A				3934		DC	A(10) CC1 or CC3
000988	004700F3	00000001			3935		DC	A(4*MB+(7*K64)-12+255) , A(256-255) , XL4' F0'
000990	000000F0							
000994					3937	M4T8	DS	0F
000994	48				3938		DC	X' 48'
000995	0000				3939		DC	X' 00' , X' 00'
000997	40				3940		DC	X' 40'
000998	0000152C	00000100			3941		DC	A(TRTOP111) , A(256)
0009A0	0002342C	00000200			3942		DC	A(TRTOP411) , A(512)
					3943	*		Target -
0009A8	0037FFE0	00480000			3944		DC	A(3*MB+(8*K64)-32) , A(4*MB+(8*K64)) , A(0) FC, 0p1, 0p1L
0009B0	00000000							
0009B4	AABBCCDD				3945		DC	A(REG2PATT)
0009B8	0000000B				3946		DC	A(11) CC1
0009BC	00480011	000000EF			3947		DC	A(4*MB+(8*K64)+X' 11') , A(256-X' 11') , XL4' 11'
0009C4	00000011							
0009C8					3949	M4T9	DS	0F
0009C8	49				3950		DC	X' 49'
0009C9	0000				3951		DC	X' 00' , X' 00'
0009CB	40				3952		DC	X' 40'
0009CC	0000192C	00000800			3953		DC	A(TRT01L0) , A(2048)
0009D4	0000312C	00000200			3954		DC	A(TRTOP20) , A(512)
					3955	*		Target -
0009DC	00390000	00490000			3956		DC	A(3*MB+(9*K64)) , A(4*MB+(9*K64)) , A(0) FC, 0p1, 0p1L
0009E4	00000000							
0009E8	AABBCCDD				3957		DC	A(REG2PATT)
0009EC	00000007				3958		DC	A(7) CC0
0009F0	00490800	00000000			3959		DC	A(4*MB+(9*K64)+2048) , A(000) , A(0)
0009F8	00000000							

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				4125	*****		
				4126	*	tests with	M3: A=1, F=0, L=1, reserved=0 (10)
				4127	*		FC Table : SIZE: 256 (2 BYTE ARGUMENT)
				4128	*		Function Code is 1 byte
				4129	*		Limit arg to 255
				4130	*		
				4131	*	Note: Op1 length must be a multiple of 2	
				4132	*****		
000CA0				4134	M10T1	DS	0F
000CA0	A1			4135		DC	X' A1' Test Num
000CA1	0000			4136		DC	X' 00' , X' 00'
000CA3	A0			4137		DC	X' A0' M3: A=1, F=0, L=1, --=0
000CA4	0000142C	00000002		4138		DC	A(TRTOP10), A(002) Source - Op 1 & length
000CAC	0000312C	00000100		4139		DC	A(TRTOP20), A(256) Source - FC Table & length
				4140	*		Target -
000CB4	00A00000	00B00000		4141		DC	A(10*MB+(0*K64)), A(11*MB+(0*K64)), A(0) FC, Op1, Op1L
000CBC	00000000						
000CC0	AABBCCDD			4142		DC	A(REG2PATT)
000CC4	00000007			4143		DC	A(7) CC0
000CC8	00B00002	00000000		4144		DC	A(11*MB+(0*K64)+002), A(000), A(0)
000CD0	00000000						
000CD4				4146	M10T2	DS	0F
000CD4	A2			4147		DC	X' A2' Test Num
000CD5	0000			4148		DC	X' 00' , X' 00'
000CD7	A0			4149		DC	X' A0' M3: A=1, F=0, L=1, --=0
000CD8	0000142C	00000004		4150		DC	A(TRTOP10), A(004) Source - Op 1 & length
000CE0	0000312C	00000100		4151		DC	A(TRTOP20), A(256) Source - FC Table & length
				4152	*		Target -
000CE8	00A10000	00B10000		4153		DC	A(10*MB+(1*K64)), A(11*MB+(1*K64)), A(0) FC, Op1, Op1L
000CF0	00000000						
000CF4	AABBCCDD			4154		DC	A(REG2PATT)
000CF8	00000007			4155		DC	A(7) CC0
000CFC	00B10004	00000000		4156		DC	A(11*MB+(1*K64)+004), A(000), A(0)
000D04	00000000						
000D08				4158	M10T3	DS	0F
000D08	A3			4159		DC	X' A3' Test Num
000D09	0000			4160		DC	X' 00' , X' 00'
000D0B	A0			4161		DC	X' A0' M3: A=1, F=0, L=1, --=0
000D0C	0000142C	00000008		4162		DC	A(TRTOP10), A(008) Source - Op 1 & length
000D14	0000312C	00000100		4163		DC	A(TRTOP20), A(256) Source - FC Table & length
				4164	*		Target -
000D1C	00A20000	00B20000		4165		DC	A(10*MB+(2*K64)), A(11*MB+(2*K64)), A(0) FC, Op1, Op1L

LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
000D24	00000000					
000D28	AABBCCDD			4166	DC	A(REG2PATT)
000D2C	00000007			4167	DC	A(7) CC0
000D30	00B20008	00000000		4168	DC	A(11*MB+(2*K64)+008), A(000), A(0)
000D38	00000000					
000D3C				4170	M10T4 DS	0F
000D3C	A4			4171	DC	X' A4' Test Num
000D3D	0000			4172	DC	X' 00' , X' 00'
000D3F	A0			4173	DC	X' A0' M3: A=1, F=0, L=1, - -=0
000D40	0000142C	00000100		4174	DC	A(TRTOP10), A(256) Source - Op 1 & length
000D48	0000312C	00000100		4175	DC	A(TRTOP20), A(256) Source - FC Table & length
				4176	*	Target -
000D50	00A30000	00B30000		4177	DC	A(10*MB+(3*K64)), A(11*MB+(3*K64)), A(0) FC, Op1, Op1L
000D58	00000000					
000D5C	AABBCCDD			4178	DC	A(REG2PATT)
000D60	00000007			4179	DC	A(7) CC0
000D64	00B30100	00000000		4180	DC	A(11*MB+(3*K64)+256), A(000), A(0)
000D6C	00000000					
000D70				4182	M10T5 DS	0F
000D70	A5			4183	DC	X' A5' Test Num
000D71	0000			4184	DC	X' 00' , X' 00'
000D73	A0			4185	DC	X' A0' M3: A=1, F=0, L=1, - -=0
000D74	0000152C	00000100		4186	DC	A(TRTOP111), A(256) Source - Op 1 & length
000D7C	0002322C	00000100		4187	DC	A(TRTOP211), A(256) Source - FC Table & length
				4188	*	Target -
000D84	00A40000	00B3FFF4		4189	DC	A(10*MB+(4*K64)), A(11*MB+(4*K64)-12), A(0) FC, Op1, Op1L
000D8C	00000000					
000D90	AABBCCDD			4190	DC	A(REG2PATT)
000D94	0000000A			4191	DC	A(10) CC1 or CC3
000D98	00B40004	000000F0		4192	DC	A(11*MB+(4*K64)-12+X' 10'), A(256-X' 10'), XL4' 11'
000DA0	00000011					
000DA4				4194	M10T6 DS	0F
000DA4	A6			4195	DC	X' A6' Test Num
000DA5	0000			4196	DC	X' 00' , X' 00'
000DA7	A0			4197	DC	X' A0' M3: A=1, F=0, L=1, - -=0
000DA8	0000162C	00000100		4198	DC	A(TRTOP1F0), A(256) Source - Op 1 & length
000DB0	0002332C	00000100		4199	DC	A(TRTOP2F0), A(256) Source - FC Table & length
				4200	*	Target -
000DB8	00A50000	00B4FFF4		4201	DC	A(10*MB+(5*K64)), A(11*MB+(5*K64)-12), A(0) FC, Op1, Op1L
000DC0	00000000					

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LOC	OBJECT	CODE	ADDR1	ADDR2	STMT			
					4266	*****		
					4267	*	tests with	M3: A=1, F=1, L=0, reserved=0 (12)
					4268	*		FC Table : SIZE: 131,072 (2 BYTE ARGUMENT)
					4269	*		Function Code is 2 bytes
					4270	*		
					4271	*	Note: Op1 length must be a multiple of 2	
					4272	*****		
000EDC					4274	M12T1	DS	0F
000EDC	C1				4275		DC	X' C1' Test Num
000EDD	0000				4276		DC	X' 00' , X' 00'
000EDF	C0				4277		DC	X' C0' M3: A=1, F=1, L=0, --=0
000EE0	0000142C	00000002			4278		DC	A(TRTOP10), A(002) Source - Op 1 & length
000EE8	0000312C	00020000			4279		DC	A(TRTOP20), A(2*K64) Source - FC Table & length
					4280	*		Target -
000EF0	00700000	00900000			4281		DC	A(7*MB+(0*K64)), A(9*MB+(0*K64)), A(0) FC, Op1, Op1L
000EF8	00000000							
000EFC	AABBCCDD				4282		DC	A(REG2PATT)
000F00	00000007				4283		DC	A(7) CC0
000F04	00900002	00000000			4284		DC	A(9*MB+(0*K64)+002), A(000), A(0)
000F0C	00000000				4285			
000F10					4287	M12T2	DS	0F
000F10	C2				4288		DC	X' C2' Test Num
000F11	0000				4289		DC	X' 00' , X' 00'
000F13	C0				4290		DC	X' C0' M3: A=1, F=1, L=0, --=0
000F14	0000142C	00000004			4291		DC	A(TRTOP10), A(004) Source - Op 1 & length
000F1C	0000312C	00020000			4292		DC	A(TRTOP20), A(2*K64) Source - FC Table & length
					4293	*		Target -
000F24	00720000	00910000			4294		DC	A(7*MB+(2*K64)), A(9*MB+(1*K64)), A(0) FC, Op1, Op1L
000F2C	00000000							
000F30	AABBCCDD				4295		DC	A(REG2PATT)
000F34	00000007				4296		DC	A(7) CC0
000F38	00910004	00000000			4297		DC	A(9*MB+(1*K64)+004), A(000), A(0)
000F40	00000000							
000F44					4299	M12T3	DS	0F
000F44	C3				4300		DC	X' C3' Test Num
000F45	0000				4301		DC	X' 00' , X' 00'
000F47	C0				4302		DC	X' C0' M3: A=1, F=1, L=0, --=0
000F48	0000142C	00000008			4303		DC	A(TRTOP10), A(008) Source - Op 1 & length
000F50	0000312C	00020000			4304		DC	A(TRTOP20), A(2*K64) Source - FC Table & length
					4305	*		Target -
000F58	00740000	00920000			4306		DC	A(7*MB+(4*K64)), A(9*MB+(2*K64)), A(0) FC, Op1, Op1L

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LOC	OBJECT CODE		ADDR1	ADDR2	STMT						
0010A0	00000007				4380	DC	A(7) CC0				
0010A4	00980800	00000000			4381	DC	A(9*MB+(8*K64)+2048), A(0), XL4' 00'				
0010AC	00000000										
0010B0					4383	M12T10	DS	0F			
0010B0	CA				4384		DC	X' CA'		Test Num	
0010B1	0000				4385		DC	X' 00' , X' 00'			
0010B3	C0				4386		DC	X' C0'		M3: A=1, F=1, L=0, --=0	
0010B4	0000212C	00000800			4387		DC	A(TRT01L11), A(2048)		Source - Op 1 & length	
0010BC	00083B2C	00020000			4388		DC	A(TRT0PC11), A(2*K64)		Source - FC Table & length	
					4389	*				Target -	
0010C4	00830000	0098FF39			4390		DC	A(7*MB+(19*K64)), A(9*MB+(9*K64)-199), A(0) FC, Op1, Op1L			
0010CC	00000000										
0010D0	AABBCCDD				4391		DC	A(REG2PATT)			
0010D4	0000000A				4392		DC	A(10) CC1 or CC3			
0010D8	00990339	00000400			4393		DC	A(9*MB+(9*K64)-199+(4*256)), A(1024), XL4' 11'			
0010E0	00000011										
0010E4					4395	M12T11	DS	0F			
0010E4	CB				4396		DC	X' CB'		Test Num	
0010E5	0000				4397		DC	X' 00' , X' 00'			
0010E7	C0				4398		DC	X' C0'		M3: A=1, F=1, L=0, --=0	
0010E8	0000292C	00000800			4399		DC	A(TRT01LF0), A(2048)		Source - Op 1 & length	
0010F0	000A3B50	00020000			4400		DC	A(TRT0PCF0), A(2*K64)		Source - FC Table & length	
					4401	*				Target -	
0010F8	0085FE1F	009A0000			4402		DC	A(7*MB+(22*K64)-481), A(9*MB+(10*K64)), A(0) FC, Op1, Op1L			
001100	00000000										
001104	AABBCCDD				4403		DC	A(REG2PATT)			
001108	0000000B				4404		DC	A(11) CC1			
00110C	009A07FE	00000002			4405		DC	A(9*MB+(10*K64)+2048-2), A(2), XL4' F0'			
001114	000000F0										

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				4407	*****		
				4408	* tests with M3: A=1, F=1, L=1, reserved=0 (14)		
				4409	* FC Table : SIZE: 512 (2 BYTE ARGUMENT)		
				4410	* Function Code is 2 byte		
				4411	* Limit arg to 255		
				4412	*		
				4413	* Note: Op1 length must be a multiple of 2		
				4414	*****		
001118				4416	M14T1 DS OF		
001118	E1			4417	DC X' E1'	Test Num	
001119	0000			4418	DC X' 00' , X' 00'		
00111B	E0			4419	DC X' E0'	M3: A=1, F=1, L=1, --=0	
00111C	0000142C	00000002		4420	DC A(TRTOP10), A(002)	Source - Op 1 & length	
001124	0000312C	00000200		4421	DC A(TRTOP20), A(512)	Source - FC Table & length	
				4422	*	Target -	
00112C	00B00000	00C00000		4423	DC A(11*MB+(0*K64)), A(12*MB+(0*K64)), A(0)	FC, Op1, Op1L	
001134	00000000						
001138	AABBCCDD			4424	DC A(REG2PATT)		
00113C	00000007			4425	DC A(7) CC0		
001140	00C00002	00000000		4426	DC A(12*MB+(0*K64)+002), A(000), A(0)		
001148	00000000						
00114C				4428	M14T2 DS OF		
00114C	E2			4429	DC X' E2'	Test Num	
00114D	0000			4430	DC X' 00' , X' 00'		
00114F	E0			4431	DC X' E0'	M3: A=1, F=1, L=1, --=0	
001150	0000142C	00000004		4432	DC A(TRTOP10), A(004)	Source - Op 1 & length	
001158	0000312C	00000200		4433	DC A(TRTOP20), A(512)	Source - FC Table & length	
				4434	*	Target -	
001160	00B10000	00C10000		4435	DC A(11*MB+(1*K64)), A(12*MB+(1*K64)), A(0)	FC, Op1, Op1L	
001168	00000000						
00116C	AABBCCDD			4436	DC A(REG2PATT)		
001170	00000007			4437	DC A(7) CC0		
001174	00C10004	00000000		4438	DC A(12*MB+(1*K64)+004), A(000), A(0)		
00117C	00000000						
001180				4440	M14T3 DS OF		
001180	E3			4441	DC X' E3'	Test Num	
001181	0000			4442	DC X' 00' , X' 00'		
001183	E0			4443	DC X' E0'	M3: A=1, F=1, L=1, --=0	
001184	0000142C	00000008		4444	DC A(TRTOP10), A(008)	Source - Op 1 & length	
00118C	0000312C	00000200		4445	DC A(TRTOP20), A(512)	Source - FC Table & length	
				4446	*	Target -	
001194	00B20000	00C20000		4447	DC A(11*MB+(2*K64)), A(12*MB+(2*K64)), A(0)	FC, Op1, Op1L	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	
				4548	*****
				4549	* Check performance tests are valid.
				4550	* tests with M3: A=1, F=1, L=0, reserved=0 (12)
				4551	* FC Table : SIZE: 131,072 (2 BYTE ARGUMENT)
				4552	* Function Code is 2 bytes
				4553	*
				4554	* Note: Op1 length must be a multiple of 2
				4555	*****
001354				4557	F12T8 DS 0F
001354	F8			4558	DC X' F8' Test Num
001355	0000			4559	DC X' 00' , X' 00'
001357	C0			4560	DC X' C0' M3: A=1, F=1, L=0, --=0
001358	0000172C	00000200		4561	DC A(TRTOP1F1), A(512) Source - Op 1 & length
001360	000C3D4E	00020000		4562	DC A(TRTOPCF1), A(2*K64) Source - FC Table & length
				4563	* Target -
001368	00710000	00910000		4564	DC A(7*MB+(1*K64)), A(9*MB+(1*K64)), A(0) FC, Op1, Op1L
001370	00000000				
001374	AABBCCDD			4565	DC A(REG2PATT)
001378	0000000B			4566	DC A(11) CC1
00137C	009101FE	00000002		4567	DC A(9*MB+(1*K64)+510), A(2), XL4' F1'
001384	000000F1				
001388				4569	F12T8A DS 0F
001388	F9			4570	DC X' F9' Test Num
001389	0000			4571	DC X' 00' , X' 00'
00138B	C0			4572	DC X' C0' M3: A=1, F=1, L=0, --=0
00138C	0000172C	00000200		4573	DC A(TRTOP1F1), A(512) Source - Op 1 & length
001394	000C3D4E	00020000		4574	DC A(TRTOPCF1), A(2*K64) Source - FC Table & length
				4575	* Target - FC, Op1, Op1L
00139C	0072FF81	0092FF81		4576	DC A(7*MB+(3*K64)-127), A(9*MB+(3*K64)-127), A(0)
0013A4	00000000				
0013A8	AABBCCDD			4577	DC A(REG2PATT)
0013AC	0000000A			4578	DC A(10) CC1 or CC3
0013B0	0093017F	00000002		4579	DC A(9*MB+(3*K64)-127+510), A(2), XL4' F1'
0013B8	000000F1				
0013BC				4581	F12T11 DS 0F
0013BC	FB			4582	DC X' FB' Test Num
0013BD	0000			4583	DC X' 00' , X' 00'
0013BF	C0			4584	DC X' C0' M3: A=1, F=1, L=0, --=0
0013C0	0000292C	00000800		4585	DC A(TRT01LF0), A(2048) Source - Op 1 & length
0013C8	000A3B50	00020000		4586	DC A(TRTOPCF0), A(2*K64) Source - FC Table & length
				4587	* Target -
0013D0	00760000	00960000		4588	DC A(7*MB+(6*K64)), A(9*MB+(6*K64)), A(0) FC, Op1, Op1L

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT
					4610 *****
					4611 * TRTE op1 scan data...
					4612 *****
00142C	78125634	78125634			4614 TRTOP10 DC 64XL4' 78125634' (CC0)
001434	78125634	78125634			
00143C	78125634	78125634			
001444	78125634	78125634			
00144C	78125634	78125634			
001454	78125634	78125634			
00145C	78125634	78125634			
001464	78125634	78125634			
00146C	78125634	78125634			
001474	78125634	78125634			
00147C	78125634	78125634			
001484	78125634	78125634			
00148C	78125634	78125634			
001494	78125634	78125634			
00149C	78125634	78125634			
0014A4	78125634	78125634			
0014AC	78125634	78125634			
0014B4	78125634	78125634			
0014BC	78125634	78125634			
0014C4	78125634	78125634			
0014CC	78125634	78125634			
0014D4	78125634	78125634			
0014DC	78125634	78125634			
0014E4	78125634	78125634			
0014EC	78125634	78125634			
0014F4	78125634	78125634			
0014FC	78125634	78125634			
001504	78125634	78125634			
00150C	78125634	78125634			
001514	78125634	78125634			
00151C	78125634	78125634			
001524	78125634	78125634			
00152C	78125634	78125634			4616 TRTOP111 DC 04XL4' 78125634' , X' 00110000' , 59XL4' 78125634' (CC1)
001534	78125634	78125634			
00153C	00110000	78125634			
001544	78125634	78125634			
00154C	78125634	78125634			
001554	78125634	78125634			
00155C	78125634	78125634			
001564	78125634	78125634			
00156C	78125634	78125634			
001574	78125634	78125634			
00157C	78125634	78125634			
001584	78125634	78125634			
00158C	78125634	78125634			
001594	78125634	78125634			
00159C	78125634	78125634			

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LOC	OBJECT	CODE	ADDR1	ADDR2	STMT					
0015A4	78125634	78125634								
0015AC	78125634	78125634								
0015B4	78125634	78125634								
0015BC	78125634	78125634								
0015C4	78125634	78125634								
0015CC	78125634	78125634								
0015D4	78125634	78125634								
0015DC	78125634	78125634								
0015E4	78125634	78125634								
0015EC	78125634	78125634								
0015F4	78125634	78125634								
0015FC	78125634	78125634								
001604	78125634	78125634								
00160C	78125634	78125634								
001614	78125634	78125634								
00161C	78125634	78125634								
001624	78125634	78125634								
00162C	78125634	78125634			4618 TRTOP1F0 DC	63XL4' 78125634' , X' 000000F0'	(CC1)			
001634	78125634	78125634								
00163C	78125634	78125634								
001644	78125634	78125634								
00164C	78125634	78125634								
001654	78125634	78125634								
00165C	78125634	78125634								
001664	78125634	78125634								
00166C	78125634	78125634								
001674	78125634	78125634								
00167C	78125634	78125634								
001684	78125634	78125634								
00168C	78125634	78125634								
001694	78125634	78125634								
00169C	78125634	78125634								
0016A4	78125634	78125634								
0016AC	78125634	78125634								
0016B4	78125634	78125634								
0016BC	78125634	78125634								
0016C4	78125634	78125634								
0016CC	78125634	78125634								
0016D4	78125634	78125634								
0016DC	78125634	78125634								
0016E4	78125634	78125634								
0016EC	78125634	78125634								
0016F4	78125634	78125634								
0016FC	78125634	78125634								
001704	78125634	78125634								
00170C	78125634	78125634								
001714	78125634	78125634								
00171C	78125634	78125634								
001724	78125634	000000F0								
00172C	78125634	78125634			4620 TRTOP1F1 DC	127XL4' 78125634' , X' 000000F1'	(CC1)			

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT
0018D4	78125634	78125634			
0018DC	78125634	78125634			
0018E4	78125634	78125634			
0018EC	78125634	78125634			
0018F4	78125634	78125634			
0018FC	78125634	78125634			
001904	78125634	78125634			
00190C	78125634	78125634			
001914	78125634	78125634			
00191C	78125634	78125634			
001924	78125634	000000F1			
00192C	98765432	98765432	4622	TRT01L0 DC	512XL4' 98765432' (CC0)
001934	98765432	98765432			
00193C	98765432	98765432			
001944	98765432	98765432			
00194C	98765432	98765432			
001954	98765432	98765432			
00195C	98765432	98765432			
001964	98765432	98765432			
00196C	98765432	98765432			
001974	98765432	98765432			
00197C	98765432	98765432			
001984	98765432	98765432			
00198C	98765432	98765432			
001994	98765432	98765432			
00199C	98765432	98765432			
0019A4	98765432	98765432			
0019AC	98765432	98765432			
0019B4	98765432	98765432			
0019BC	98765432	98765432			
0019C4	98765432	98765432			
0019CC	98765432	98765432			
0019D4	98765432	98765432			
0019DC	98765432	98765432			
0019E4	98765432	98765432			
0019EC	98765432	98765432			
0019F4	98765432	98765432			
0019FC	98765432	98765432			
001A04	98765432	98765432			
001A0C	98765432	98765432			
001A14	98765432	98765432			
001A1C	98765432	98765432			
001A24	98765432	98765432			
001A2C	98765432	98765432			
001A34	98765432	98765432			
001A3C	98765432	98765432			
001A44	98765432	98765432			
001A4C	98765432	98765432			
001A54	98765432	98765432			
001A5C	98765432	98765432			
001A64	98765432	98765432			

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT
0025C4	98765432	98765432			
0025CC	98765432	98765432			
0025D4	98765432	98765432			
0025DC	98765432	98765432			
0025E4	98765432	98765432			
0025EC	98765432	98765432			
0025F4	98765432	98765432			
0025FC	98765432	98765432			
002604	98765432	98765432			
00260C	98765432	98765432			
002614	98765432	98765432			
00261C	98765432	98765432			
002624	98765432	98765432			
00262C	98765432	98765432			
002634	98765432	98765432			
00263C	98765432	98765432			
002644	98765432	98765432			
00264C	98765432	98765432			
002654	98765432	98765432			
00265C	98765432	98765432			
002664	98765432	98765432			
00266C	98765432	98765432			
002674	98765432	98765432			
00267C	98765432	98765432			
002684	98765432	98765432			
00268C	98765432	98765432			
002694	98765432	98765432			
00269C	98765432	98765432			
0026A4	98765432	98765432			
0026AC	98765432	98765432			
0026B4	98765432	98765432			
0026BC	98765432	98765432			
0026C4	98765432	98765432			
0026CC	98765432	98765432			
0026D4	98765432	98765432			
0026DC	98765432	98765432			
0026E4	98765432	98765432			
0026EC	98765432	98765432			
0026F4	98765432	98765432			
0026FC	98765432	98765432			
002704	98765432	98765432			
00270C	98765432	98765432			
002714	98765432	98765432			
00271C	98765432	98765432			
002724	98765432	98765432			
00272C	98765432	98765432			
002734	98765432	98765432			
00273C	98765432	98765432			
002744	98765432	98765432			
00274C	98765432	98765432			
002754	98765432	98765432			
00275C	98765432	98765432			

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT
					4629 *****
					4630 * Function Code (FC) Tables (GR1)
					4631 *****
00312C	00000000	00000000			4633 TRTOP20 DC 256X' 00' no stop
003134	00000000	00000000			
00313C	00000000	00000000			
003144	00000000	00000000			
00314C	00000000	00000000			
003154	00000000	00000000			
00315C	00000000	00000000			
003164	00000000	00000000			
00316C	00000000	00000000			
003174	00000000	00000000			
00317C	00000000	00000000			
003184	00000000	00000000			
00318C	00000000	00000000			
003194	00000000	00000000			
00319C	00000000	00000000			
0031A4	00000000	00000000			
0031AC	00000000	00000000			
0031B4	00000000	00000000			
0031BC	00000000	00000000			
0031C4	00000000	00000000			
0031CC	00000000	00000000			
0031D4	00000000	00000000			
0031DC	00000000	00000000			
0031E4	00000000	00000000			
0031EC	00000000	00000000			
0031F4	00000000	00000000			
0031FC	00000000	00000000			
003204	00000000	00000000			
00320C	00000000	00000000			
003214	00000000	00000000			
00321C	00000000	00000000			
003224	00000000	00000000			
00322C			00322C	02322C	4634 ORG *+2*K64
02322C	00000000	00000000			4636 TRTOP211 DC 17X' 00' , X' 11' , 238X' 00' stop on X' 11'
023234	00000000	00000000			
02323C	00110000	00000000			
023244	00000000	00000000			
02324C	00000000	00000000			
023254	00000000	00000000			
02325C	00000000	00000000			
023264	00000000	00000000			
02326C	00000000	00000000			
023274	00000000	00000000			
02327C	00000000	00000000			
023284	00000000	00000000			
02328C	00000000	00000000			
023294	00000000	00000000			

LOC	OBJECT CODE	ADDR1	ADDR2	STMT
02329C	00000000	00000000		
0232A4	00000000	00000000		
0232AC	00000000	00000000		
0232B4	00000000	00000000		
0232BC	00000000	00000000		
0232C4	00000000	00000000		
0232CC	00000000	00000000		
0232D4	00000000	00000000		
0232DC	00000000	00000000		
0232E4	00000000	00000000		
0232EC	00000000	00000000		
0232F4	00000000	00000000		
0232FC	00000000	00000000		
023304	00000000	00000000		
02330C	00000000	00000000		
023314	00000000	00000000		
02331C	00000000	00000000		
023324	00000000	00000000		
02332C	00000000	00000000	4638 TRTOP2F0 DC	240X' 00' , X' F0' , 15X' 00' stop on X' F0'
023334	00000000	00000000		
02333C	00000000	00000000		
023344	00000000	00000000		
02334C	00000000	00000000		
023354	00000000	00000000		
02335C	00000000	00000000		
023364	00000000	00000000		
02336C	00000000	00000000		
023374	00000000	00000000		
02337C	00000000	00000000		
023384	00000000	00000000		
02338C	00000000	00000000		
023394	00000000	00000000		
02339C	00000000	00000000		
0233A4	00000000	00000000		
0233AC	00000000	00000000		
0233B4	00000000	00000000		
0233BC	00000000	00000000		
0233C4	00000000	00000000		
0233CC	00000000	00000000		
0233D4	00000000	00000000		
0233DC	00000000	00000000		
0233E4	00000000	00000000		
0233EC	00000000	00000000		
0233F4	00000000	00000000		
0233FC	00000000	00000000		
023404	00000000	00000000		
02340C	00000000	00000000		
023414	00000000	00000000		
02341C	F0000000	00000000		
023424	00000000	00000000		

LOC	OBJECT CODE	ADDR1	ADDR2	STMT
0235CC	00000000	00000000		
0235D4	00000000	00000000		
0235DC	00000000	00000000		
0235E4	00000000	00000000		
0235EC	00000000	00000000		
0235F4	00000000	00000000		
0235FC	00000000	00000000		
023604	00000000	00000000		
02360C	00000000	00000000		
023614	00000000	00000000		
02361C	00000000	00000000		
023624	00000000	00000000		
02362C	00000000	00000000	4642 TRTOP4F0 DC	480X' 00' , X' 00F0' , 30X' 00' stop on X' F0'
023634	00000000	00000000		
02363C	00000000	00000000		
023644	00000000	00000000		
02364C	00000000	00000000		
023654	00000000	00000000		
02365C	00000000	00000000		
023664	00000000	00000000		
02366C	00000000	00000000		
023674	00000000	00000000		
02367C	00000000	00000000		
023684	00000000	00000000		
02368C	00000000	00000000		
023694	00000000	00000000		
02369C	00000000	00000000		
0236A4	00000000	00000000		
0236AC	00000000	00000000		
0236B4	00000000	00000000		
0236BC	00000000	00000000		
0236C4	00000000	00000000		
0236CC	00000000	00000000		
0236D4	00000000	00000000		
0236DC	00000000	00000000		
0236E4	00000000	00000000		
0236EC	00000000	00000000		
0236F4	00000000	00000000		
0236FC	00000000	00000000		
023704	00000000	00000000		
02370C	00000000	00000000		
023714	00000000	00000000		
02371C	00000000	00000000		
023724	00000000	00000000		
02372C	00000000	00000000		
023734	00000000	00000000		
02373C	00000000	00000000		
023744	00000000	00000000		
02374C	00000000	00000000		
023754	00000000	00000000		
02375C	00000000	00000000		

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT
023764	00000000	00000000			
02376C	00000000	00000000			
023774	00000000	00000000			
02377C	00000000	00000000			
023784	00000000	00000000			
02378C	00000000	00000000			
023794	00000000	00000000			
02379C	00000000	00000000			
0237A4	00000000	00000000			
0237AC	00000000	00000000			
0237B4	00000000	00000000			
0237BC	00000000	00000000			
0237C4	00000000	00000000			
0237CC	00000000	00000000			
0237D4	00000000	00000000			
0237DC	00000000	00000000			
0237E4	00000000	00000000			
0237EC	00000000	00000000			
0237F4	00000000	00000000			
0237FC	00000000	00000000			
023804	00000000	00000000			
02380C	00F00000	00000000			
023814	00000000	00000000			
02381C	00000000	00000000			
023824	00000000	00000000			
02382C	00000000	00000000			4643
023834	00000000	00000000			4644 TRTOP811 DC 17X' 00' , X' 11' , 238X' 00' stop on X' 11'
02383C	00110000	00000000			
023844	00000000	00000000			
02384C	00000000	00000000			
023854	00000000	00000000			
02385C	00000000	00000000			
023864	00000000	00000000			
02386C	00000000	00000000			
023874	00000000	00000000			
02387C	00000000	00000000			
023884	00000000	00000000			
02388C	00000000	00000000			
023894	00000000	00000000			
02389C	00000000	00000000			
0238A4	00000000	00000000			
0238AC	00000000	00000000			
0238B4	00000000	00000000			
0238BC	00000000	00000000			
0238C4	00000000	00000000			
0238CC	00000000	00000000			
0238D4	00000000	00000000			
0238DC	00000000	00000000			
0238E4	00000000	00000000			
0238EC	00000000	00000000			
0238F4	00000000	00000000			

ASMA Ver. 0.2.1		TRTE-01-basic (Test TRTE instructions)							06 Oct 2022 11:34:50		Page	71	
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES								
TRTOPC11	X	00083B2C	1	4653	4328	4352	4388						
TRTOPCF0	X	000A3B50	1	4657	4340	4400	4586	4598					
TRTOPCF1	X	000C3D4E	1	4660	4364	4505	4562	4574					
TST1LOOP	U	0000050A	1	3571	3626								
TTDES	F	00000054	4	4708									
UA0	F	00000010	8	4680									
UA1	F	0000004C	4	4705									
UA2	F	000000A4	4	4750									
UA3	F	000000B4	4	4759									
UA4	X	000000B8	1	4760									
UA5	X	000000CC	8	4770									
UA6	X	000000EC	8	4776									
UA7	F	00000118	8	4787									
UA8	X	00000180	32	4816									
ZBRKADDR	A	00000110	8	4786									
ZEMONCNT	F	0000010C	4	4785									
ZEMONCTR	A	00000100	8	4783									
ZEMONSIZ	F	00000108	4	4784									
ZEXTNPSW	X	000001B0	16	4819									
ZEXTOPSW	X	00000130	16	4811									
ZIONPSW	X	000001F0	16	4823									
ZIOOPSW	X	00000170	16	4815									
ZMCKNPSW	X	000001E0	16	4822									
ZMCKOPSW	X	00000160	16	4814									
ZMKFAILA	F	000000F8	8	4778									
ZMONCODE	F	000000B0	8	4753									
ZPGMNPSW	X	000001D0	16	4821									
ZPGMOPSW	X	00000150	16	4813									
ZPGMTRX	F	000000A8	8	4752									
ZRSTNPSW	X	000001A0	16	4818									
ZRSTOPSW	X	00000120	16	4810									
ZSASDISP	U	000011C0	1	4824									
ZSVCNPSW	X	000001C0	16	4820									
ZSVCOPSW	X	00000140	16	4812									
=F' 0'	F	000005E8	4	3660	3625								

DESC	SYMBOL	SIZE	POS	ADDR
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Entry: 0

Image	IMAGE	933710	00000- E3F4D	00000- E3F4D
Region	CODE	933710	00000- E3F4D	00000- E3F4D
CSECT	TRTE1TST	933710	00000- E3F4D	00000- E3F4D

STMT

FILE NAME

```
1 /devstor/dev/satk/samples/tests/TRTE-01-basic.asm
```

```
2 /home/tn529/dev/satk/srcasm/satk.mac
```

**** NO ERRORS FOUND ****