ASMA Ver.	0.2.1	TRTR-01-ba	sic (Test	TRTR instruction	ons)	19 Nov 2022 12:14:12 Page	1
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				2 ******* 3 *	*****	*************	
				4 *	TRTR in	struction tests	
				5 * 6 *	NOTE: This	test is based the CLCL-et-al Test	
				7 *		ied to only test the TRTR instruction.	
				8 *	- w 1 -	,	
				9 *		. November 2022	
				10			
				12 ******* 13 *	******	*************	
				14 *	TRTR ba	sic instruction tests	
				15 *	د ماه	*************	
						s proper functioning of the TRTR	
				18 * instri		ecification exceptions are not tested.	
				19 * 20 * PLFΔSF	NOTE that	the tests are very SIMPLE TESTS designed to catch	
						rors. None of the tests are thorough. They are	
				22 * NOT de 23 *	esigned to t	est all aspects of the TRTR instruction.	
					*****	**************	
				25 * 26 * Exampl	le Hercules	Testcase:	
				27 *			
					*Testcase	RTR-01-basic (Test TRTR instructions)	
				29 * 30 *	#		
				31 *		s only the basic function of the TRTR instruction.	
				32 * 33 *	# Specifica	tion Exceptions are NOT tested.	
					mainsize	16	
					numcpu	1	
				36 * 37 *	sysclear archlvl	z/Arch	
				38 *			
				39 * 40 *	loadcore	"\$(testpath)/TRTR-01-basic" 0x0	
					runtest	1	
				42 *			
				43 * 44 *	*Done		
					*****	************	

ACMA Var	0.2.4	TDTD 01 b-	-i- (T+	TDTD :	+ i - n - \		10 Nov. 2022 12:1/:12 Page	2
ASMA Ver.	0.2.1	TRIR-01-ba	sic (lest	TRTR instruct	tions)		19 Nov 2022 12:14:12 Page	2
LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				48 *		Low Core Definitions		
				49 ***** 50 *	******	******	**********	
		00000000	00000EF7	51 TRTR1TS	ST START	0		
00000000		00000000		52	USING	TRTR1TST,R0	Low core addressability	
00000000 000001A0 000001A8	00000001 80000000 00000000 00000200	00000000	000001A0	54 55 56	ORG DC DC	TRTR1TST+X'1A0' X'0000000180000000' AD(BEGIN)	z/Architecure RESTART PSW	
000001B0		000001B0	000001D0	58	ORG	TRTR1TST+X'1D0'	z/Architecure PROGRAM CHECK PSW	
000001D0 000001D8	00020001 80000000 00000000 0000DEAD			59 60	DC DC	X'0002000180000000' AD(X'DEAD')		
000001E0		000001E0	00000200	62	ORG	TRTR1TST+X'200'	Start of actual test program	

ASMA Ver.	0.2.1	TRTR-01-basic	(Test TRTR	instruction	s)	19 Nov 2022 12:14:12	Page 3
LOC	OBJECT CODE	ADDR1 A	DDR2 STMT				
			65 66 67 68 69 70 71 72 73 74 75 76 77 80 81 82 83	* ******** * Archite * Registe * R0 * R1 * R2 * R3 * R4 * R5 * R6-R7 * R8 * R9 * R10-R1 * R13 * R14 * R15	The actual "TRTF *********** cture Mode: z/Arch r Usage: (work) TRTR - Function-Coc TRTR - First-Operar TRTR - First-Operar TRTR - Function-Coc (work) First base register Second base register 2 (work)	de nd Address nd Length de Table Address r er ole - base current entry	
				* *****	*******	**********	****
00000200 00000200		00000200 00001200	87 88			FIRST Base Register SECOND Base Register	
00000200 00000202 00000204	0580 0680 0680		90 91 92	В		Initalize FIRST base register Initalize FIRST base register Initalize FIRST base register	
00000206 0000020A	4190 8800 4190 9800		000800 94 000800 95	L		Initalize SECOND base register Initalize SECOND base register	
					un the tests		
0000020E	45E0 8302	00	000502 99 100	В	AL R14,TEST01	Test TRTR instruction	
			103	*	Test for normal or une	********************************** expected test completion **************************	
00000212 00000216	9526 8200 4770 83C0		000400 106 0005C0 107		LI TESTNUM,X'26' NE FAILTEST	Did we end on expected test? No?! Then FAIL the test!	
0000021A 0000021E	9502 8201 4770 83C0		000401 109 0005C0 110		LI SUBTEST,X'02' NE FAILTEST	Did we end on expected SUB-test? No?! Then FAIL the test!	
00000222	47F0 83A8	00	0005A8 112	В	ЕОЈ	Yes, then normal completion!	

SMA Ver.	0.2.1	TRTR-01-ba	sic (Test	TRTR instruct:	ions)		19 Nov 2022 12:14:12 Page	4
LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				115 *	Fixed	test stor	**************************************	
					*****	*****	**************	
0000226		00000226	00000400	118 119	ORG	BEGIN+X'2	00'	
000400				120 TESTADDI	R DS	0D	Where test/subtest numbers will go	
000400	99						Test number of active test	
000401	99			122 SUBTEST	DC	X'99'	Active test sub-test number	
0000402		00000402	00000502	124	ORG	*+X'100'		

ASMA Ver.	0.2.1	TRTR-01-ba	sic (Test	TRTR instruction	ons)		19 Nov 2022 12:14:12 Page	5
LOC	ОВЈЕСТ С	ODE ADDR1	ADDR2	STMT				
				126 *****	*****	******	**********	
				127 *	TEST0		Test TRTR instruction	
				128 *****	*****	******	**********	
00000502	9201 8200		00000400	130 TEST01	MVI	TESTNUM,X'01'		
00000506	41D0 83C8		000005C8	131 132	ι Λ	D12 TDTDCTI	Doint D6 > testing control table	
0000050A	41D0 03C0	0000000	000003C8	133	LA USING	R13,TRTRCTL TRTRTEST,R13	Point R6> testing control table What each table entry looks like	
				134		,		
00000501	4360 D000	0000050A	00000001 00000000	135 TST1L00P		* DC TNUM	Set test number	
0000050A 0000050E	4260 8200		0000000	136 137	IC STC	R6,TNUM R6,TESTNUM	Set test number	
				138 *		•		
				139 **	Initi	alize operand data	(move data to testing address)	
00000512	58A0 D01C		0000001C	140 * 141	ı	R10,OP1WHERE	Where to move operand-1 data to	
00000516	58B0 D008		00000008	142	Ĺ	R11,OP1LEN	operand-1 length	
0000051A	50B0 D020		00000020	143	ST	R11,OP1WLEN	and save for later	
0000051E 00000522	5860 D004 5870 D008		00000004 00000008	144 145	L	R6,0P1DATA R7,0P1LEN	Where op1 data is right now How much of it there is	
00000526	0EA6		0000000	146	MVCL	R10, R6	now mach of it there is	
00000500	5040 5004			147 *	_	, D40, OBOWIERE		
00000528 0000052C	58A0 D024 58B0 D010		00000024 00000010	148 149	L	R10,OP2WHERE R11,OP2LEN	Where to move operand-2 data to How much of it there is	
00000520	5860 D00C		00000010	150	Ĺ	R6,OP2DATA	Where op2 data is right now	
00000534	5870 D010		00000010	151	L	R7,OP2LEN	How much of it there is	
00000538	0EA6			152	MVCL	R10,R6		
					_			
				154 * Setup	for TR	TR instruction: adj	ust OP address	
0000053A	58B0 D028		00000028	156	L	R11, FAILMASK	(failure CC)	
0000053E	89B0 0004		00000004	157	SLL	R11,4	(shift to BC instr CC position)	
00000542	9200 8201		00000401	159	MVI	SUBTEST,X'00'	(primary TRTR)	
						·	.,	
00000546	9815 D014		00000014	161	LM	R1,R5,OPSWHERE	get TRTR input; set OP addr to end	
0000054A	1A34			162	AR	R3,R4	add OP length -1	
0000054C	0630			163	BCTR	R3,0		

ASMA Ver.	0.2.1	TRTR-01-ba	sic (Test	ΓRTR instructio	ons)		19 Nov 2022 12:14:12 Page 6
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				165 * Executo	e TRTR	instruction and ch	neck for expected condition code
0000054E 00000550	1864 0660			167 168	LR BCTR	R6,R4	get op-1 length -1 for EX
00000552	4460 838E		0000058E	169	EX	R6,TRTREX	'TRTR 0(0,R3),0(R5)'
00000556	44B0 838A		0000058A	171	EX	R11,TRTRBC	fail if
				173 **	Verif	v R1 R2 contain (or	still contain!) expected values
00000554	0016 0006				,		Serve contain., expected vacaes
0000055A	98AC D02C		0000002C	175	LM	R10,R12,ENDREGS	
	9201 8201 151A		00000401	177 178	MVI CLR	SUBTEST,X'01' R1,R10	<pre>(R2 result - op1 found addr) R2 correct?</pre>
	4770 8384		00000584	179	BNE	TRTRFAIL	No, FAILTEST!
	9202 8201		00000401	181	MVI	SUBTEST,X'02'	(R3 result - op1 remaining len)
0000056C 0000056E	152B 4770 8384		00000584	182 183	CLR BNE	R2,R11 TRTRFAIL	R3 correct No, FAILTEST!
00000572	41D0 D034		00000034	185	LA	R13,TRTRNEXT	Go on to next table entry
00000576	D503 83C4 D000	000005C4	00000000	186	CLC	=F'0',0(R13)	End of table?
0000057C 00000580	4770 830A 47F0 8388		0000050A 00000588	187 188	BNE B	TST1LOOP TRTRDONE	No, loop Done! (success!)
	41E0 83C0		000005C0	190 TRTRFAIL		R14, FAILTEST	Unexpected results!
00000588	07FE			191 TRTRDONE	вк	R14	Return to caller or FAILTEST
0000058A	4700 8384		00000584	193 TRTRBC	ВС	0,TRTRFAIL	(fail if unexpected condition code)
					-	, ==	
	D000 3000 5000	00000000	00000000	195 TRTREX 196		0(0,R3),0(R5)	
00000594 00000594				197 198	DROP DROP	R13 R15	
00000594		00000200		199		BEGIN, R8	

ASMA Ver.	0.2.1	TRTR-01-ba	sic (Test	TRTR	instructio	ons)		19 Nov 2022 12:14:12 Page	7
LOC	OBJECT CODE	ADDR1	ADDR2	STMT					
				202	*	Normal	l completion or A	**************************************	
00000598	00020001 80000000			205	EOJPSW	DC	0D'0',X'00020001	80000000',AD(0)	
000005A8	B2B2 8398		00000598	207	ЕОЈ	LPSWE	EOJPSW	Normal completion	
000005B0	00020001 80000000			209	FAILPSW	DC	0D'0',X'00020001	8000000',AD(X'BAD')	
000005C0	B2B2 83B0		000005B0	211	FAILTEST	LPSWE	FAILPSW	Abnormal termination	
				214	*	Workin	ng Storage	***********	
				215				************	
000005C4 000005C4	0000000			217 218			; =F'0'	Literals pool	
		00000400 00001000 00004000	00000001 00000001 00000001		K PAGE K16	EQU EQU EQU	1024 (4*K) (16*K)	One KB Size of one page 16 KB	
		00008000 00010000 00100000	00000001 00000001 00000001		K32 K64 MB	EQU EQU EQU	(32*K) (64*K) (K*K)	32 KB 64 KB 1 MB	

ASMA Ver.	0.2.1	TRTR-01-ba	sic (Test	TRTR i	nstructi	ons)		19 Nov 2022 12:14:12 Page 8
LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
		00000000	00000EF7	227	TRTR1TST	CSECT	,	
				229 230			**************************************	**********

				233	TRTRTEST	DSECT		
00000000 00000001	00 00			234 235	TNUM	DC DC	X'00' X'00'	TRTR table Number
00000002 00000003	00 00			236 237		DC DC	X'00' X'00'	
00000004	00000000				OP1DATA	DC	A(0)	Pointer to Operand-1 data
00000008 0000000C	00000000 0000000				OP1LEN OP2DATA	DC DC	F'0' A(0)	How much data is there - 1 Pointer to FC table data
00000010	00000000				OP2LEN	DC	F'0'	How much data is there - FC Table
00000014	0000000	00000014	00000001		OPSWHERE GR1PATT	•	*	CD1 Dolluted Degister nattern
00000014 00000018 0000001C	00000000			246	GR2PATT OP1WHERE		A(0) A(0) A(0)	GR1 - Polluted Register pattern GR2 - Polluted Register pattern Where Operand-1 data should be placed
00000020	00000000			248	OP1WLEN	DC	F'0'	How much data is there - 1
00000024	00000000			249	OP2WHERE	DC	A(0)	Where FC Table data should be placed
00000028	0000000			251	FAILMASK	DC	A(0)	Failure Branch on Condition mask
0000002C	0000000			253	* ENDREGS	DC.	A(0)	Ending register values GR1 - FC address
00000020	00000000			255	LNDKLUS	DC	A(0)	GR2 - Function Code
		00000034	00000001	257	TRTRNEXT	EQU	*	Start of next table entry
		AADDCCDD	0000000	250	DECORATE	F0!!	VIAADDCCDDI	Dallated Dagiston nattons
		AABBCCDD 000000DD	00000001 00000001		REG2PATT REG2LOW		X'AABBCCDD' X'DD'	Polluted Register pattern (last byte above)

ASMA Ver.	0.2.1	TRTR-01-ba	sic (Test	TRTR instructi	ons)		19 Nov 2022 12:14:12 Page	9
LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
		00000000	00000EF7	262 TRTR1TST	CSECT	,		
				265 * 266 *****	TRTR *****	Testing Control tables (*********	**************************************	
000005C8				267 268 TRTRCTL	PRINT DC	DATA 0A(0) start of table		
				271 *	tests	with CC=0	*********	
000005C8	0.1			274 CC0T1 275	DS DC	0F X'01'	Test Num	
000005C8 000005C9 000005CB	0000			275 276 277 278 *	DC DC	X'00',X'00' X'00'	IEST MUIII	
000005CC 000005D4	000008DC 00000001 00000BDC 00000100			278 * 279 280 281 *	DC DC	A(TRTOP10),A(001) A(TRTOP20),A(256)	Source - Op 1 & length Source - FC Table & length Target -	
000005E4	AABBCCDD AABBCCDD 00100000 00000000 00200000			282 283	DC DC	A(REG2PATT),A(REG2PATT) A(1*MB+(0*K16)),A(0),A(2*	GR1, GR2 MB+(0*K16)) Op1, Op1L, FCT	
	00000007 AABBCCDD AABBCCDD			284 * 285 286	DC DC	A(7) A(REG2PATT),A(REG2PATT)	not CC0 FC address, Code	
000005FC 000005FC 000005FD 000005FF	0000			288 CC0T2 289 290 291	DS DC DC DC	0F X'02' X'00',X'00' X'00'	Test Num	
00000600 00000608	000008DC 00000004 00000BDC 00000100			292 * 293 294	DC DC	A(TRTOP10),A(004) A(TRTOP20),A(256)	Source - Op 1 & length Source - FC Table & length	
00000610 00000618 00000620	AABBCCDD AABBCCDD 00104000 00000000 00204000			295 * 296 297	DC DC	A(REG2PATT),A(REG2PATT) A(1*MB+(1*K16)),A(0),A(2*	Target - GR1, GR2 MB+(1*K16)) Op1, Op1L, FCT	
00000624	00000007 AABBCCDD AABBCCDD			298 * 299 300	DC DC	A(7) A(REG2PATT),A(REG2PATT)	not CC0 FC address, Code	
00000630 00000630 00000631	03 0000 00			302 CC0T3 303 304 305	DS DC DC DC	0F X'03' X'00',X'00' X'00'	Test Num	
00000634 0000063C	000008DC 00000040 00000BDC 00000100			306 * 307 308	DC DC	A(TRTOP10),A(064) A(TRTOP20),A(256)	Source - Op 1 & length Source - FC Table & length	
0000644	AABBCCDD AABBCCDD			309 * 310	DC	A(REG2PATT),A(REG2PATT)	Target - GR1, GR2	

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
0000064C 00000654	00108000 00000000 00208000			311	DC	A(1*MB+(2*K16)),A(0),A(2*M	B+(2*K16)) Op1, Op1L, FCT
00000658 0000065C	00000007 AABBCCDD AABBCCDD			312 * 313 314	DC DC	A(7) A(REG2PATT),A(REG2PATT)	not CC0 FC address, Code
00000551				246 66077	D.C	0.5	
00000664 00000664 00000665 00000667	04 0000 00			316 CC0T4 317 318 319	DS DC DC DC	0F X'04' X'00',X'00' X'00'	Test Num
00000668 00000670	000008DC 00000100 00000BDC 00000100			319 320 * 321 322	DC DC	A(TRTOP10),A(256) A(TRTOP20),A(256)	Source - Op 1 & length Source - FC Table & length
00000678 00000680	AABBCCDD AABBCCDD 0010C000 00000000			323 * 324 325	DC DC	A(REG2PATT),A(REG2PATT) A(1*MB+(3*K16)),A(0),A(2*M	Target - GR1, GR2
00000688 0000068C	0020C000 00000007			326 * 327	DC	A(7)	not CC0
00000690	AABBCCDD AABBCCDD			328	DC	A(REG2PATT), A(REG2PATT)	FC address, Code

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LOC	OBJECT CODE	ADDR1 ADDR2	STMT				
			332	*	tests	**************************************	
	0000		336 337	CC1T1	DS DC DC	0F X'11' Test Num X'00',X'00'	
	000009DC 00000004 00000CE8 00000100		338 339 340 341 342		DC DC DC	X'00' A(TRTOP1F0),A(004) Source - Op 1 & length A(TRTOP2F0),A(256) Source - FC Table & length Target -	
	AABBCCDD AABBCCDD 00300000 00000000 00400000		343 344 345		DC DC	A(REG2PATT), A(REG2PATT) GR1, GR2 A(3*MB+(0*K16)), A(0), A(4*MB+(0*K16)) Op1, Op1L, FCT	
000006C0 000006C4	0000000B 00300001 AABBCCF0		346 347		DC DC	A(11) A(3*MB+(0*K16)+1),XL4'AABBCCF0' FC address, Code	
000006CC 000006CC	12 0000		349 350 351	CC1T2	DS DC DC	0F X'12' Test Num	
000006CF	00		352 353	*	DC	X'00',X'00' X'00'	
000006D0 000006D8	000009DC 00000010 00000CE8 00000100		354 355 356	*	DC DC	A(TRTOP1F0),A(016) Source - Op 1 & length A(TRTOP2F0),A(256) Source - FC Table & length Target -	
	AABBCCDD AABBCCDD 00304000 00000000 00404000		357 358 359	J.	DC DC	A(REG2PATT), A(REG2PATT) GR1, GR2 A(3*MB+(1*K16)), A(0), A(4*MB+(1*K16)) Op1, Op1L, FCT	
000006F4 000006F8	0000000B 00304001 AABBCCF0		360 361	^	DC DC	A(11) not CC1 A(3*MB+(1*K16)+1),XL4'AABBCCF0' FC address, Code	
00000700 00000700	13		363 364	CC1T3	DS DC	0F X'13' Test Num	
00000701 00000703	0000		365 366 367	+	DC DC	X'00',X'00' X'00'	
	000009DC 00000100 00000CE8 00000100		368 369 370		DC DC	A(TRTOP1F0),A(256) Source - Op 1 & length Source - FC Table & length Target -	
	AABBCCDD AABBCCDD 00308000 00000000 00408000		371 372		DC DC	A(REG2PATT), A(REG2PATT) GR1, GR2 A(3*MB+(2*K16)), A(0), A(4*MB+(2*K16)) Op1, Op1L, FCT	
	0000000B 00308001 AABBCCF0		373 374 375	*	DC DC	A(11) not CC1 A(3*MB+(2*K16)+1),XL4'AABBCCF0' FC address, Code	
			377	*	cross	page tests	

ASMA Ver.	0.2.1	TRTR-01-ba	asic (Test	TRTR instruct	ions)	19 Nov 2022 12:14:12 Page 12
LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
00000734 00000734	14			379 CC1T4 380	DS DC	0F X'14' Test Num
00000735 00000737	0000 00			381 382 383 *	DC DC	X'00',X'00' X'00'
00000738 00000740	000009DC 00000010 00000CE8 00000100			384 385 386 *	DC DC	A(TRTOP1F0),A(016) Source - Op 1 & length A(TRTOP2F0),A(256) Source - FC Table & length Target -
00000748 00000750 00000758	AABBCCDD AABBCCDD 0030BFF7 00000000 0040BFF7			387 388	DC DC	A(REG2PATT),A(REG2PATT) GR1, GR2 A(3*MB+(3*K16)-9),A(0),A(4*MB+(3*K16)-9) Op1, Op1L, FCT
0000075C 00000760	0000000B 0030BFF8 AABBCCF0			389 * 390 391	DC DC	A(11) A(3*MB+(3*K16)-9+1),XL4'AABBCCF0' FC address, Code
00000768				393 CC1T5	DS	0F
00000768 00000769 0000076B	15 0000 00			394 395 396	DC DC DC	X'15' Test Num X'00',X'00' X'00'
0000076C 00000774	000009DC 00000100 00000CE8 00000100			397 * 398 399	DC DC	A(TRTOP1F0),A(256) Source - Op 1 & length A(TRTOP2F0),A(256) Source - FC Table & length
0000077C 00000784				400 * 401 402	DC DC	Target - A(REG2PATT),A(REG2PATT) GR1, GR2 A(3*MB+(4*K16)-13),A(0),A(4*MB+(4*K16)-29) Op1,, FCT
0000078C 00000790	0040FFE3 0000000B			403 * 404	DC	A(11) not CC1
00000794	0030FFF4 AABBCCF0			405	DC	A(3*MB+(4*K16)-13+1),XL4'AABBCCF0' FC address, Code

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LOC	OBJECT CODE	ADDR1 ADDR2	STMT				
			409	*	tests	**************************************	
0000079C 0000079C 0000079D	0000		413 414		DS DC DC	0F X'21' Test Num X'00',X'00'	
0000079F 000007A0 000007A8	00 00000ADC 00000004 00000DF0 00000100		415 416 417 418	*	DC DC DC	X'00' A(TRTOP1F1),A(004) Source - Op 1 & length A(TRTOP8F1),A(256) Source - FC Table & length	
000007B8	AABBCCDD AABBCCDD 00500000 00000000 00600000		419 420 421		DC DC	Target - A(REG2PATT),A(REG2PATT) GR1, GR2 A(5*MB+(0*K16)),A(0),A(6*MB+(0*K16)) Op1, Op1L, FCT	
	0000000D 00500000 AABBCCF1		422 423 424	*	DC DC	A(13) not CC2 A(5*MB+(0*K16)),XL4'AABBCCF1' FC address, Code	
000007D0 000007D0 000007D1	22 0000		426 427 428	CC2T2	DS DC DC	<pre>0F X'22' X'00',X'00'</pre> Test Num	
000007D4	00 00000ADC 00000010		429 430 431	*	DC DC	X'00' A(TRTOP1F1),A(016) Source - Op 1 & length	
000007E4	00000DF0 00000100 AABBCCDD AABBCCDD 00504000 00000000		432 433 434 435	*	DC DC DC	A(TRTOP8F1),A(256) Source - FC Table & length Target - A(REG2PATT),A(REG2PATT) GR1, GR2 A(5*MB+(1*K16)),A(0),A(6*MB+(1*K16)) Op1, Op1L, FCT	
000007F4 000007F8 000007FC	00604000 0000000D 00504000 AABBCCF1		436 437 438		DC DC	A(13) not CC2 A(5*MB+(1*K16)),XL4'AABBCCF1' FC address, Code	
00000804 00000804 00000805	0000		441 442	СС2Т3	DS DC DC	0F X'23' Test Num X'00',X'00'	
00000807 00000808 00000810	00000ADC 00000100 00000DF0 00000100		443 444 445 446 447		DC DC DC	X'00' A(TRTOP1F1),A(256) A(TRTOP8F1),A(256) Source - Op 1 & length Source - FC Table & length	
00000820	AABBCCDD AABBCCDD 00508000 00000000 00608000		448 449		DC DC	Target - A(REG2PATT), A(REG2PATT) GR1, GR2 A(5*MB+(2*K16)), A(0), A(6*MB+(2*K16)) Op1, Op1L, FCT	
	0000000D 00508000 AABBCCF1		450 451 452		DC DC	A(13) not CC2 A(5*MB+(2*K16)),XL4'AABBCCF1' FC address, Code	
			454	*	cross	page tests	

ASMA Ver.	0.2.1		TRTR-01-ba	sic (Test	TRTR instruc	tions)		19 Nov 2022 12:14:12 Page	14
LOC	OBJEC ⁻	T CODE	ADDR1	ADDR2	STMT				
00000838 00000838	24				456 CC2T4 457	DS DC	0F X'24'	Test Num	
00000839 0000083B	0000 00				458 459 460 *	DC DC	X'00',X'00' X'00'		
0000083C 00000844		00000010 00000100			461 462 463 *	DC DC	A(TRTOP1F1),A(016) A(TRTOP8F1),A(256)	Source - Op 1 & length Source - FC Table & length Target -	
0000084C 00000854 0000085C	AABBCCDD 0050BFF7 0060BFF7	AABBCCDD 00000000			464 465	DC DC	A(REG2PATT),A(REG2PATT) A(5*MB+(3*K16)-9),A(0),A	GR1, GR2 A(6*MB+(3*K16)-9) Op1, Op1L, FCT	
00000860 00000864	0000000D 0050BFF7	AABBCCF1			466 * 467 468	DC DC	A(13) A(5*MB+(3*K16)-9),XL4'AA	not CC2 ABBCCF1' FC address, Code	
0000086C					470 CC2T5	DS	0F		
0000086C 0000086D 0000086F	25 0000 00				470 CC213 471 472 473	DC DC DC	X'25' X'00',X'00' X'00'	Test Num	
00000870 00000878		00000100 00000100			474 * 475 476	DC DC	A(TRTOP1F1),A(256) A(TRTOP8F1),A(256)	Source - Op 1 & length Source - FC Table & length	
00000880 00000888 00000890		AABBCCDD 00000000			477 * 478 479	DC DC	A(REG2PATT),A(REG2PATT) A(5*MB+(4*K16)-13),A(0)	Target - GR1, GR2 ,A(6*MB+(4*K16)-29) Op1,, FCT	
00000894 00000898	000000D 000000D 0050FFF3	AARRCCE1			480 * 481 482	DC DC	A(13) A(5+MB+(4+K16)-13) XI4'4	not CC2 AABBCCF1' FC address, Code	
00000000	00301113	AADDCCII			402	DC	A(3,Mb)(4,K10) 13), XL4 /	AADDCCII IC uuuless, couc	
000008A0 000008A0 000008A1	26 0000				484 CC2T6 485 486	DS DC DC	0F X'26' X'00',X'00'	Test Num	
000008A3	00				487 488 *	DC	X'00'		
000008A4 000008AC	00000ADC 00000DF0				489 490 491 *	DC DC	A(TRTOP1F1),A(256) A(TRTOP8F1),A(256)	Source - Op 1 & length Source - FC Table & length Target -	
000008B4 000008BC 000008C4	AABBCCDD 00513FFF 0061401D				492 493	DC DC	A(REG2PATT),A(REG2PATT) A(5*MB+(5*K16)-1),A(0),A		
000008C8 000008CC	0000000D 00513FFF	AABBCCF1			494 * 495 496	DC DC	A(13) A(5*MB+(5*K16)-1),XL4'AA	not CC2 ABBCCF1' FC address, Code	
000008D4 000008D8	00000000				498 499	DC DC	A(0) end of table A(0) end of table		
					501	PRIN	Γ NODATA		

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LOC	OBJECT	CODE	ADDR1	ADDR2	STMT								
					504	*	TRTR	**************************************					
					303	^^^^		^^^^^					
000008DC	78125634	78125634			507	TRTOP10	DC	64XL4'78125634'	(CC0)				
000009DC	00F00000	78125634			509	TRTOP1F0	DC	X'00F00000',63XL4	78125634	' (CC1)			
00000ADC	F1000000	78125634			511	TRTOP1F1	DC	X'F1000000',63XL4	78125634	(CC2)			
					514	*	Funct	******************* ion Code (FC) Tabl	.es				
					515	****	*****	******	*****	******	******	****	
	00000000 00000000				517 518	TRTOP20	DC DS	256X'00' D	no sto	р			
	00000000 00000000				520 521	TRTOP2F0	DC DS	240X'00',X'F0',15 D	5X'00'	stop on X'F0'			
	00000000				523 524	TRTOP8F1	DC DS	240X'00',X'00',X' D	F1',14X'0	00' stop on	X'F1'		
					526 527		_	********** ter equates	******	******	******	****	
					528	*****	*****	******	*****	*******	******	****	
			0000000	00000001	530	R0	EQU	0					
			00000001 00000002	00000001 00000001	531 532		EQU EQU	1 2					
			00000003	00000001	533	R3	EQU	3					
			00000004 00000005	00000001 00000001	534 535		EQU EQU	4 5					
			00000006	00000001	536	R6	EQU	6					
			00000007 00000008	00000001 00000001	537 538		EQU EQU	/ 8					
			00000009 0000000A	00000001 00000001	539 540	R9	EQU	9 10					
			0000000B	00000001	541	R11	EQU EQU	11					
			000000C	00000001	542	R12	EQU	12					
			0000000D 0000000E	00000001 00000001	543 544		EQU EQU	13 14					
			0000000F	00000001	545		EQU	15					

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT					
				547	END				

CZTG F 000008A0 4 484 NOREGS A 0000002C 4 254 175				1-basic (Te				•							_,	Nov			·	Page	17
COTI F 00000556 4 278 COTI F 00000576 4 388 COTI F 00000576 4 389 COTI F 00000576 4 379 COTI F 00000576 4 429 COTI F 00000576 4 429 COTI F 00000576 4 429 COTI F 00000578 4 489 COTI F 00000588 4 465 COTI F 00000588 4 465 COTI F 00000588 4 289 COTI F 00000588 4 289 COTI F 00000588 8 205	SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFE	RENCE	S													
COTY F 000008FC 4 288		I	00000200	2		118	56	87	88	199											
COT3 F 000006500 4 302 COT4 F 000006064 4 316 COT4 F 0000006664 4 316 COT4 F 000006668 4 316 COT4 F 000006668 4 349 COT4 F 000000666 4 349 COT4 F 000000764 4 349 COT4 F 000000764 4 349 COT4 F 00000076 4 349 COT4 F 00000076 4 349 COT4 F 00000076 4 340 COT4 F 00000076 3 3 3 3 COT4 F 000000076 3 3 3 3 COT4 F 000000076 3 3 3 3 COT4 F 0000000076 3 3 3 3 COT4 F 000000076 3 3 3 COT4 F 000000076 3 COT4 F 00000076 3 COT4 F 000000076 3 COT4 F 00000076 3 COT4 F 000000076 3 COT4 F 00000076 3 COT4 F 000000076 3 COT4 F 00000076 3 COT4 F 00000076 3 COT4 F 00000076 3 C	C0T1	F	000005C8	4	274																
COTIC F 00000664 4 316 CITI F 00000658 4 315 CITI F 00000078 4 319 CITI F 00000078 4 425 CITI F 0000000000 4 4426 CITI F 00000079 4 4426 CITI F 00000079 4 4426 CITI F 00000079 4 4426 CITI F 000000000 4 466 CITI F 0000000000 4 466 CITI F 000000000 4 466 CITI F 0000000000 4 466 CITI F 000000000 4 4 466 CITI F 000000000 4 4 466 CITI F 0000000000 4 4 466 CITI F 000000000 4 4 466 CITI F 000000000 4 4 4 466 CITI F 0000000000 4 4 4 466 CITI F 0000000000000000000000000000000000	C0T2	F	000005FC	4	288																
COTA F 08000664 4 316 CITI F 0800067 4 315 CITI F 0800067 4 317 CITI F 0800067 4 317 CITI F 0800067 4 426 CITI F 0800067 4 426	СФТЗ	F	00000630	4	302																
CITI F 00000698 4 335 CITI F 00000706 4 369 CITI F 00000706 4 369 CITI F 00000706 4 363 F 000007070 4 420 CITI F 0000079C 4 412 CITI F 0000079C 4 421 CITI F 0000079C 4 426 CITI F 00000838 4 466 CITI F 00000838 4 426 CITI		F		4																	
CIT2 F 0000005CC 4 349 CIT3 F 00000734 4 379 CIT4 F 00000734 4 379 CIT5 F 00000734 4 379 CIT5 F 00000734 4 379 CIT5 F 00000706 4 329 CIT5 F 00000700 4 4 402 CIT5 F 00000700 4 4 402 CIT5 F 00000884 4 440 CIT6 F 00000888 4 456 CIT5 F 00000880 4 484 MORECS A 00000880 4 4 844 MORECS A 00000880 8 209 CIT5 F 00000858 8 207 AILMASK A 00000088 8 209 CIT5 I 00000880 8 209 CIT5 I 0		F		4																	
CIT14 F 000007700 4 363 CIT15 F 000007768 4 379 CIT15 F 00000758 4 393 CIT15 F 00000756 4 4393 CIT15 F 00000756 4 4393 CIT15 F 00000756 4 442 CIT17 F 00000700 4 442 CIT17 F 00000700 4 440 CIT17 F 00000700 4		F																			
CITYS F 06000734 4 379 CITYS F 06000705 4 412 CITYS F 06000034 4 446 CITYS F 06000034 4 484 CITYS F 06000038 A 4 84 CITYS F 060000038 A 4 84 CITYS F 06000038 A 4 84 CITYS F 060000038 A 4 84 CITYS F 060000038 A 4 84 CITYS F 060000038																					
CITS F 00000768 4 393 CZT1 F 00000770 4 4/26 CZT2 F 00000870 4 4/26 CZT3 F 00000870 4 4/26 CZT3 F 00000880 4 4/40 CZT4 F 00000880 4 4/60 CZT5 F 00000880 4 4/80 CZT5 F 00000880 4 4/80 CZT6 F 0000080 4 2/80 CZT6 F 0000080 4 2/80 CZT7 F 0000080 4 2/80 CZT7 F 0000080 4 2/80 CZT6 F 0000080 1 2/80 CZC F 0000080 1 2/8		<u>,</u>																			
CZTI F 0000079C 4 412 CZTZ F 00000804 4 440 CZTZ F 00000805 4 456 CZTZ F 00000805 8 205 CZTZ F 00000805 1 250		г г																			
C2T2 F 00000700 4 426 C2T3 F 00000804 4 440 C2T4 F 00000804 4 440 C2T4 F 00000804 4 440 C2T4 F 00000804 4 440 C2T5 F 00000806 4 470 C2T6 F 00000806 4 484 C2T6 F 00000808 4 200 112 C2T6 F		F																			
CZT3		<u> </u>																			
CZTÁ F 0000083C 4 470 CZT5 F 000008AC 4 470 CZT6 F 000008AC 4 470 CZT6 F 000008AC 4 484 NDREGS A 0000007C 4 254 T 000005BC 3 4 207 112 U 000005BC 3 4 207 112 U 000005BC 4 211 106 ALIPSW D 00005BC 8 209 211 ALIPSW D 00005BC 8 209 211 ALIPSW D 000005C 4 211 107 110 190 RIPATT A 0000018 4 246 RIPATT A 00000018 4 246 U 00004000 1 220 221 222 223 224 225 U 00000000 1 220 283 297 311 325 344 347 358 361 372 375 388 391 402 405 421 B U 00100000 1 224 435 438 449 452 465 468 479 482 493 496 B U 00100000 1 224 435 438 449 452 465 468 479 482 493 496 B U 00100000 1 224 83 297 311 325 344 347 358 361 372 375 388 391 402 405 421 B U 00100000 1 224 83 297 311 325 344 347 358 361 372 375 388 391 402 405 421 B U 00100000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00100000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00100000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00100000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00100000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00100000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00100000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00100000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00100000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00100000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00000000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00000000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00000000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00000000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00000000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00000000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00000000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00000000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00000000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00000000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00000000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00000000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00000000 1 224 83 438 449 452 465 468 479 482 493 496 B U 00000		F		4																	
CZTS F 00000860 4 4 770 CZT6 F 00000860 4 4 684 NDREGS A 000002C 4 254 175 OJS D 00009508 8 205 207 ALIMASK A 00000528 4 251 156 ALIMASK A 00000580 8 209 211 ALIMASK A 00000580 9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		F		4																	
CZTG		F	00000838	4	456																
CZTG	C2T5	F		4	470																
NOREGS A 0000002C 4 254 175 0J I 000005A8 4 207 112 0JPSW D 000005P8 8 205 207 AILMASK A 00000028 4 251 156 AILLASK A 00000028 4 251 156 AILLASK A 0000005C 4 211 107 110 190 RIPATT A 00000014 4 245 RIPATT A 00000014 4 245 MAGE I 00000400 1 220 221 222 223 224 225 16 U 00000400 1 222 283 297 311 325 344 347 358 361 372 375 388 391 402 405 421 32 U 00008000 1 224 B U 0010000 1 224 B U 0010000 1 225 B U 0010000 1 224 B U 0010000 1 224 B U 00000000 1 244 B U 0000000 1 244 B U 00000000 1 244 B U 0000000 1 244 B U 00000000 1 2	C2T6	F	000008A0	4	484																
OJPSW D 00000508 8 207 112 OJPSW D 00000508 8 205 175 ALLHASK A 0000028 4 2251 156 ALLHASK A 00000500 8 209 211 ALLTEST I 00000050 8 209 211 ALLTEST I 00000014 4 245 RZPATT A 00000018 4 246 MAGE 1 00000000 3832 0 10 00000400 1 220 221 222 223 224 225 16 U 00000400 1 220 2283 297 311 325 344 347 358 361 372 375 388 391 402 405 421 32 U 0000800 1 223 64 U 0001000 1 224 8B U 0010000 1 224 BB U 0010000 1 224 BPIMERE A 00000004 4 249 145 PIWHER F 0000000 4 248 143 PIWHER F 0000000 4 248 143 PZDATA A 00000004 4 249 148 PSWHERE A 00000000 1 221 OG 0000000 1 231 OG 00000000 1 231 OG 0000000 1 231 OG 0000000 1 231 OG 0000000 1 231 OG 00000000 1 231 OG 000000000 1 231 OG 00000000 1 231 OG 00		Α		4		175															
OPEN D		T																			
ALLHASK D 00000028 4 251 156 ALLHEST I 00000050 8 209 211 ALLHEST I 00000014 4 245 RZPATT A 0000014 4 246 RZPATT A 0000018 4 246 RZPATT A 0000018 4 246 RZPAT A 0000000 382 0 0 1 00000400 1 222 283 297 311 325 344 347 358 361 372 375 388 391 402 405 421 32 U 00008000 1 223 424 B U 0010000 1 224 B U 0010000 1 224 B U 0010000 1 224 B U 0010000 1 225 B U 00000000 4 243 438 449 452 465 468 479 482 493 496 PIDATA A 00000004 4 239 144 PILEN F 0000008 4 240 142 145 PIWHERE A 0000001C 4 247 141 PIWLEN F 0000000 4 241 150 PZEEN F 0000000 4 241 150 PZEEN F 0000000 1 221 B C 00000000 1 221 B C 00000000 1 224 B C 00000000 1 225 B C 0000000 1 225 B C 0000000 1 225 B C 00000000 1 225 B C 0000000 1 225 B C 00000000 1 225 B C 000000000 1 225 B C 00000000 1 225 B C 00000000 1 225 B C 000000000 1 225 B C 0000000000 1 225 B C 0000000000 1 225 B C 000000000000 1 225 B C 000000000000 1 225 B C 00000000000 1 225 B C 00000000000 1 225 B C 000000000000 1 225 B C 00000000000000000000000000000000000		Ď																			
AILPSW D 00000580 8 209 211 ALTER ALTER ALTER ALTER ALTER ALTER A 00000014 4 245				_																	
AILTEST I 000005C0				-																	
RIPATT A 00000014		_					110	100													
RZPATT A 00000018		_				107	110	190													
MAGE 1 00000000 3832 0		_		4																	
1																					
16 U 00004000 1 222 283 297 311 325 344 347 358 361 372 375 388 391 402 405 421 22 U 00008000 1 223 B U 00010000 1 225 283 297 311 325 344 347 358 361 372 375 388 391 402 405 421 PIDATA A 00000004 4 239 144 PILEN F 00000008 4 240 142 PIWHERE A 0000001 4 242 149 PZDATA A 00000004 4 241 150 PZDATA A 00000004 4 242 149 PSWHERE A 0000000 4 242 149 PSWHERE A 0000000 1 221 1 U 0000000 1 231 1 U 0000000 1 231 1 U 0000000 1 533 161 178 1 U 0000000 1 533 161 178 1 U 0000000 1 542 175 1 U 0000000 1 544 199 191 1 S41 142 143 149 150 157 171 182 1 U 0000000 1 542 175 1 U 0000000 1 544 199 191 1 S41 142 143 149 150 157 171 182 1 U 0000000 1 544 199 191 1 S41 144 146 150 152 167 168 169 1 U 0000000 1 544 199 191 1 U 0000000 1 544 199 191 1 U 0000000 1 544 199 191 1 U 0000000 1 544 141 146 148 150 150 152 167 168 169 1 U 0000000 1 544 199 191	MAGE	1		3832																	
32		U	00000400	1	220	221	222	223	224	225											
32	16	U	00004000	1	222	283	297	311	325	344	347	358	361	372	375	388	391	402	405	421	
32						424	435	438	449	452	465	468	479	482	493	496					
64	32	U	00008000	1	223																
B U 00100000 1 225 283 297 311 325 344 347 358 361 372 375 388 391 402 405 421 PIDATA A 00000004 4 239 144 PILEN F 00000008 4 240 142 145 PIWHERE A 00000010 4 241 150 P2DATA A 00000010 4 241 150 P2LEN F 000000010 4 242 149 151 P2WHERE A 00000024 4 241 150 P2WHERE A 00000014 1 244 161 AGE U 00001000 1 221 0 U 00000000 1 530 52 1 U 00000000 1 531 161 178 10 U 00000000 1 531 161 178 11 U 00000000 1 540 141 142 143 149 156 157 178 11 U 00000000 1 540 141 142 143 149 156 157 171 182 12 U 00000000 1 540 141 142 143 149 156 157 171 182 13 U 00000000 1 540 142 143 149 156 157 171 182 14 U 00000000 1 540 142 143 149 156 157 171 182 15 U 00000000 1 540 142 143 149 156 157 171 182 16 U 00000000 1 540 142 143 149 156 157 171 182 17 U 00000000 1 540 141 142 143 149 156 157 171 182 18 U 00000000 1 540 142 143 149 156 157 171 182 19 U 00000000 1 540 142 143 149 156 157 171 182 10 U 00000000 1 540 142 143 149 156 157 171 182 10 U 00000000 1 540 142 143 149 156 157 171 182 10 U 00000000 1 540 142 143 149 156 157 171 182 10 U 00000000 1 540 142 143 149 156 157 171 182 10 U 00000000 1 540 142 143 149 156 157 171 182 10 U 00000000 1 540 142 143 149 156 157 171 182 10 U 00000000 1 540 142 143 149 156 157 171 182 10 U 00000000 1 540 142 143 149 156 157 171 182 10 U 00000000 1 540 142 143 149 156 157 171 182 10 U 00000000 1 540 144 144 145 145 145 145 145 145 145 145																					
PIDATA A 00000004						283	207	211	325	3/1/1	347	358	361	372	375	388	301	402	405	421	
P1DATA A 00000004	טו	U	0010000	T	223												391	402	403	421	
P1LEN F 00000008	D1D1T1	^	0000001	,	220		433	430	449	452	405	400	4/9	402	493	490					
PIWHERE A 000001C		A		4			415														
PINLEN F 0000000C 4 241 150 P2DATA A 000000C 4 241 150 P2LEN F 00000010 4 242 149 151 P2WHERE A 00000024 4 249 148 PSWHERE U 00001000 1 221 0 U 00000000 1 530 52 1 U 00000000 1 530 52 1 U 0000000A 1 531 161 178 10 U 0000000A 1 541 142 143 149 156 157 171 182 11 U 0000000B 1 541 142 143 149 156 157 171 182 12 U 0000000C 1 542 175 13 U 0000000D 1 543 132 133 185 186 197 14 U 0000000B 1 544 99 190 191 15 U 0000000F 1 544 99 190 191 15 U 0000000F 1 534 162 163 195 2 U 0000000F 1 535 161 195 4 U 00000000 1 533 162 163 195 4 U 00000000 1 533 161 195 6 U 00000000 1 536 136 137 144 146 150 152 167 168 169 7 U 00000007 1 537 145 151		F		4			145														
P2DATA A 000000C		Α		4																	
P2LEN F 00000010 4 242 149 151 P2WHERE A 00000024 4 249 148 PSWHERE U 000000014 1 241 AGE U 00000000 1 221 0 U 00000000 1 530 52 1 U 00000000 1 531 161 178 10 U 00000000 1 531 161 178 11 U 00000000 1 541 142 143 149 156 157 171 182 12 U 0000000 1 542 175 13 U 0000000 1 542 175 14 U 0000000 1 544 99 190 191 15 U 0000000 1 545 198 2 U 0000000 1 545 198 2 U 0000000 1 533 162 163 195 4 U 0000000 1 534 162 167 5 U 0000000 1 536 136 137 144 146 150 152 167 168 169 7 U 00000000 1 536 136 137 144 146 150 152 167 168 169		F		4																	
P2WHERE	P2DATA	Α	0000000C	4	241	150															
P2WHERE	P2LEN	F	00000010	4	242	149	151														
PSWHERE U 00000014 1 244 161 AGE U 00001000 1 221		Α	00000024	4	249																
AGE				1																	
0				1																	
1		_		1		52															
10				1			170														
11				1				140	152	175	170										
12				1								100									
13				1			143	149	156	15/	1/1	182									
14 U 0000000E 1 544 99 190 191 15 U 0000000F 1 545 198 2 U 00000002 1 532 182 3 U 00000003 1 533 162 163 195 4 U 00000004 1 534 162 167 5 U 00000005 1 535 161 195 6 U 000000006 1 536 136 137 144 146 150 152 167 168 169 7 U 00000007 1 537 145 151				1																	
1 545 198 2				1					186	197											
2 U 00000002 1 532 182 3 U 00000003 1 533 162 163 195 4 U 00000005 1 535 161 195 6 U 00000006 1 536 136 137 144 146 150 152 167 168 169 7 U 00000007 1 537 145 151		U		1			190	191													
2 U 00000002 1 532 182 3 U 00000003 1 533 162 163 195 4 U 00000004 1 534 162 167 5 U 00000005 1 535 161 195 6 U 00000006 1 536 136 137 144 146 150 152 167 168 169 7 U 00000007 1 537 145 151		U	0000000F	1	545	198															
3 U 00000003 1 533 162 163 195 4 U 00000004 1 534 162 167 5 U 00000005 1 535 161 195 6 U 00000006 1 536 136 137 144 146 150 152 167 168 169 7 U 00000007 1 537 145 151		U	00000002	1	532																
4 U 00000004 1 534 162 167 5 U 0000005 1 535 161 195 6 U 00000006 1 536 136 137 144 146 150 152 167 168 169 7 U 0000007 1 537 145 151				1			163	195													
5 U 00000005 1 535 161 195 6 U 00000006 1 536 136 137 144 146 150 152 167 168 169 7 U 00000007 1 537 145 151				1																	
6 U 00000006 1 536 136 137 144 146 150 152 167 168 169 7 U 00000007 1 537 145 151				1																	
7 U 00000007 1 537 145 151				1				1 /. /.	1 /. 6	150	152	167	160	160							
				1				144	140	TOA	132	101	109	109							
$8 \hspace{1.5cm} U \hspace{0.2cm} 00000008 \hspace{0.2cm} 1 \hspace{0.2cm} 538 \hspace{0.2cm} 87 \hspace{0.2cm} 90 \hspace{0.2cm} 91 \hspace{0.2cm} 92 \hspace{0.2cm} 94 \hspace{0.2cm} 199$		U	00000007 00000008	1	537 538	145 87	151 90	91	92		400										

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFE	RENCE	S													
R9	U	00000009	1	539	88	94	95													
REG2LOW	U	000000DD	1	260																
REG2PATT	U	AABBCCDD	1	259	282 448	286 464	296 478	300 492	310	314	324	328	343	357	371	387	401	420	434	
SUBTEST	Χ	00000401	1	122	109	159	177	181												
TEST01	I	00000502	4	130	99															
TESTADDR	D	00000400	8	120																
TESTNUM	Χ	00000400	1	121	106	130	137													
TNUM	Χ	00000000	1	234	136															
TRTOP10	Χ	000008DC	4	507	279	293	307	321												
TRTOP1F0	Χ	000009DC	4	509	340	354	368	384	398											
TRTOP1F1	Χ	00000ADC	4	511	417	431	445	461	475	489										
TRTOP20	Χ	00000BDC	1	517	280	294	308	322												
TRTOP2F0	Χ	00000CE8	1	520	341	355	369	385	399											
TRTOP8F1	Χ	00000DF0	1	523	418	432	446	462	476	490										
TRTR1TST	J	0000000	3832	51	54	58	62	52												
TRTRBC	I	0000058A	4	193	171			_												
TRTRCTL	Α	000005C8	4	268	132															
TRTRDONE	I	00000588	2	191	188															
TRTREX	I	0000058E	6	195	169															
TRTRFAIL	I	00000584	4	190	179	183	193													
TRTRNEXT	Ū	00000034	1	257	185															
TRTRTEST	4	00000000	52	233	133															
TST1L00P	Ü	0000050A	1	135	187															
=F'0'	F	000005C4	4	218	186															

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DESC	SYMBOL	SIZE	POS	ADDR										
Entry: 0														
Image	IMAGE	3832	000-EF7	000-EF7										
CSECT	IMAGE TRTR1TST	3832	000-EF7 000-EF7	000-EF7										

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S	ТМТ	FILE NAME			
1	/devstor/dev/tes	sts/TRTR-01-basic.asm			
** N	O ERRORS FOUND **				