ASMA Ver.	0. 7. 0 zvector-e6-	02-stores	(Zvector	E6 \	RX s	tores)	18 Jun 2024 18: 57: 02 Page 1
LOC	OBJECT CODE	ADDR1	ADDR2	S	тмг		
Loc	ODOLOT CODE	110011	IIDDIVA				
					2 3	*	******************
					4	*	Zvector E6 instruction tests for VRX encoded:
					5 6	*	E609 VSTEBRH - VECTOR STORE BYTE REVERSED ELEMENT (16)
					7		E60A VSTEBRG - VECTOR STORE BYTE REVERSED ELEMENT (64)
					8 9	*	E60B VSTEBRF - VECTOR STORE BYTE REVERSED ELEMENT (32) E60E VSTBR - VECTOR STORE BYTE REVERSED ELEMENTS
					10		EGOF VSTER - VECTOR STORE ELEMENTS REVERSED EGOF VSTER - VECTOR STORE ELEMENTS REVERSED
					11		T W. I. I. T. 0004
					12 13		James Wekel June 2024 ***********************************
					10		
					15	*****	****************
					16	*	
					17 18		basic instruction tests
					19	*****	****************
					20		program tests proper functioning of the z/arch E6 VRX vector
					21 22	* stor	e instructions. Exceptions are not tested.
					23	* PLEA	SE NOTE that the tests are very SIMPLE TESTS designed to catch
					24 25	* obvi	ous coding errors. None of the tests are thorough. They are designed to test all aspects of any of the instructions.
						*	designed to test air aspects or any or the instructions.
						*****	*****************
					28 29		estcase VECTOR E6 VRX store instructions
					30	* *	
					31 32		Zvector E6 instruction tests for VRX encoded:
					33	* *	E609 VSTEBRH - VECTOR STORE BYTE REVERSED ELEMENT (16)
					34 35	* *	E60A VSTEBRG - VECTOR STORE BYTE REVERSED ELEMENT (64)
						* *	E60B VSTEBRF - VECTOR STORE BYTE REVERSED ELEMENT (32) E60E VSTBR - VECTOR STORE BYTE REVERSED ELEMENTS
					37	* *	E60F VSTER - VECTOR STORE ELEMENTS REVERSED
					38 39	* *	#
					40		# This tests only the basic function of the instruction.
					41 42		# Exceptions are NOT tested.
					43	* *	
					44 45		insize 2
					45 46		mcpu 1 sclear
					47	* ar	chl vl z/Arch
					48 49		adcore "\$(testpath)/zvector-e6-02-stores.core" 0x0
					50	*	
					51 52		ag8cmd enable # (needed for messages to Hercules console) ntest 2
					53	* di	ag8cmd disable # (reset back to default)
					54	*	
					55 56	* D	one

LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
			1		***************	

MA ver.	0. 7. 0 zvector- e6-	02-stores	(Zvector E	6 VRX s	stores)		18 Jun 2024 18: 57: 02 Page
LOC	OBJECT CODE	ADDR1	ADDR2	STM			
					*****	****	****************
				60		FCHEC	K Macro - Is a Facility Bit set?
				61 62		If the	e facility bit is NOT set, an message is issued and
				63	*		est is skipped.
				64 65		Fehael	uses RO, R1 and R2
				66	*	renec	uses no, ni and na
				67	* eg.	FCHEC	(134, 'vector-packed-decimal'
				68 69	******	MACRO	· ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^
				70			K &BITNO, &NOTSETMSG
				71	* * *		&BITNO: facility bit number to check
				73		LCLA	&NOTSETMSG: 'facility name' &FBBYTE Facility bit in Byte
				74			&FBBIT Facility bit within Byte
				75 76		LCLA	&I.(8)
				77	&L(1)		128, 64, 32, 16, 8, 4, 2, 1 bit positions within byte
				78	&FBBYTE	SETA	&BITNO/8
					&FBBIT		&L((&BITNO-(&FBBYTE*8))+1)
				81	*		O, 'checking Bit=&BITNO: FBBYTE=&FBBYTE, FBBIT=&FBBIT'
				82 83		В	X&SYSNDX
				84	*	ъ	Fcheck data area
				85	*	DV DC	ski p messgae
				86 87	SKT&SYSN	DC DC	C' Ski ppi ng tests: ' C&NOTSETMSG
				88		DC	C' facility (bit &BITNO) is not installed.'
				89 90		DX EQU	*- SKT&SYSNDX
				91		DS	facility bits FD gap
					FB&SYSND		4FD
				93 94	*	DS	FD gap
				95	X&SYSNDX		
				96 97		LA STELE	RO, ((X&SYSNDX-FB&SYSNDX)/8)-1 FB&SYSNDX get facility bits
				98		SIFLE	readished get facility bits
				99		XGR	RO, RO
				100 101		I C N	RO, FB&SYSNDX+&FBBYTE get fbit byte RO, =F' &FBBIT' is bit set?
				102		BNZ	XC&SYSNDX
				103		tv hit	not sot issue message and evit
				104	*	cy bit	not set, issue message and exit
				106		LA	RO, SKL&SYSNDX message length
				107 108		LA BAL	R1, SKT&SYSNDX message address R2, MSG
				109		DIL	
				110		B V FOII :	EOJ
				111	XC&SYSND	MEND	

SMA Ver.	0. 7. 0 zvector-e6-0	02-stores (Zvector E6	VRX s	stores)			18 Jun 2024 18: 57: 02 Page 4
LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				115	*	Low co	ore PSWs	*************
0000000		00000000 00000000	00001533	118 119 120	ZVE6TST		0 ZVE6TST, RO	Low core addressability
		00000140	00000000		SVOLDPSW	EQU	ZVE6TST+X' 140'	z/Arch Supervisor call old PSW
0000000 00001A0 00001A8	00000001 80000000 00000000 00000200	00000000	000001A0	123 124 125		ORG DC DC	ZVE6TST+X' 1A0' X' 000000018000000' AD(BEGIN)	z/Architecure RESTART PSW
000001B0 000001D0 000001D8	00020001 80000000 00000000 0000DEAD	000001B0	000001D0	127 128 129		ORG DC DC	ZVE6TST+X' 1D0' X' 000200018000000' AD(X' DEAD')	z/Architecure PROGRAM CHECK PSW
00001E0		000001E0	00000200	131		ORG	ZVE6TST+X' 200'	Start of actual test program

wii vei.	0. 7. 0 zvector- e6-	uz-stores (Zvector Eo	via scores)			18 Jun 2024 18: 57: 02 Page
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				133			
				134 ******	*****	*******	**************************************
				135 * 126 ******	*****	The actual "ZVE	EGTST" program itself
				137 *			
					tectur	e Mode: z/Arch	
					ter Us		
				140 *			
				141 * RO		work)	
				142 * R1-4 143 * R5	`	work)	ble support test base
				143 * R5-R		work)	ble - current test base
				145 * R8	`	irst base registe	er
				146 * R9		econd base regist	
				147 * R10	T	hird base registe	er
				148 * R11		6TEST call return	
				149 * R12 150 * R13		6TESTS register work)	
				150 K15		ubroutine call	
				152 * R15		econdary Subrouti	ne call or work
				153 *		· ·	
				154 ******	*****	******	************
000200		00000200		156	USING	BEGIN, R8	FIRST Base Register
000200		00001200		157	USING		SECOND Base Register
000200		00002200		158	USING	BEGIN+8192, R10	THIRD Base Register
000200	0580			160 BEGIN	BALR	R8. 0	Initalize FIRST base register
0000202	0680			161	BCTR		Initalize FIRST base register
000204	0680			162	BCTR	R8, 0	Initalize FIRST base register
000206	4190 8800		00000800	164	TΛ	R9, 2048(, R8)	Initaliza SECOND base mediator
000200 00020A	4190 9800		00000800	165	LA LA	R9, 2048(, R9)	Initalize SECOND base register Initalize SECOND base register
70002011	1100 0000		0000000	166		NO, 2010(, NO)	Threatize brown base register
00020E	41A0 9800		00000800	167	LA	R10, 2048(, R9)	Initalize THIRD base register
0000212	41A0 A800		00000800	168	LA	R10, 2048(, R10)	Initalize THIRD base register
1000010	DCOO 0044		00000444	169	CTCT	DO DO CTUDO	Chang CDO to anally APD
0000216 000021A	B600 82A4 9604 82A5		000004A4 000004A5	170 171	OI	RO, RO, CTLRO CTLRO+1, X' 04'	Store CRO to enable AFP Turn on AFP bit
)00021A)00021E	9602 82A5		000004A5 000004A5	171	0I	CTLRO+1, X 04 CTLRO+1, X' 02'	Turn on Vector bit
000212	B700 82A4		000004A4	173		RO, RO, CTLRO	Reload updated CRO
				174			•

					tor-en	hancements facili	ty 2 installed (bit 148
				177 ******* 178			
				179	FCHEC	K 148. 'Vector-enh	nancements facility 2'
000226	47F0 80B8		000002B8	180+	В	X0001	
				181+*			Fcheck data area
00000	40404040 40404040			182+*	D.C	Q1 .	ski p messgae
00022A	40404040 40404040 E5959242 06006085			183+SKT0001	DC DC		pping tests: '
	E58583A3 96996085			184+ 185+	DC DC		ements facility 2' : 148) is not installed.'
000244	MUKKKIKA KOOAKO VA						
000244	40868183 899389A3	00000051	0000001				. 140) IS not installed.
	40868183 899389A3	000005D	0000001	186+SKL0001 187+*	EQU	*- SKT0001	facility bits

ASMA ver.	U. 7. U zvector-eb-	· uz-stores (zvector Eb	vkx stores)			18 Jun 2024 18: 57: 02 Page
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				208 ******	*****	*****	**********
				209 *		Do tests in the E	
				210 ******	*****		**************************************
				211			
000002E0	58C0 82B0		000004B0	212	L	R12, = $A(E6TESTS)$	get table of test addresses
JOOOU & LO	OCCO OLDO		00000100	213		KIE, -M(EGIESIS)	get tuble of test udulesses
		000002E4	0000001	214 NEXTE6	EQU	*	
00002E4	5850 C000	00000=1	00000000	215	L	R5, 0(0, R12)	get test address
00002E8	1255			216	LTR	R5, R5	have a test?
00002EA	4780 8134		00000334	217	BZ	ENDTEST	done?
				218			
00002EE		00000000		219	USING	E6TEST, R5	
				220			
000002EE	4800 5004		00000004	221	LH	RO, TNUM	save current test number
000002F2	5000 8E04		00001004	222	ST	RO, TESTING	for easy reference
	PAGE 0504 0544	00004004	00001011	223	3.570	****	
00002F6	D20F 8E84 8EA4	00001084	000010A4	224	MVC	V10UTPUT, V1FUDGE	pollute v1 output (stored)
000002FC	E710 8EB4 0006		000010B4	225	VL	V1, V1INPUT	
00000302	58B0 5000		0000000	226		R11, TSUB	get address of test routine
00000306	05BB			227	BALR	R11, R11	do test
00000308	E310 5014 0014		00000014	228 229	LGF	R1, READDR	get address of expected result
00000308 0000030E	D50F 8E84 1000	00001084	00000014	230	CLC	V10UTPUT, O(R1)	valid?
000003014	4770 8120	00001004	00000320	231	BNE	FAILMSG	no, issue failed message
0000014	1770 0120		00000020	232	DILL	THE LINDS	no, issue inited message
00000318	41C0 C004		0000004	233	LA	R12, 4(0, R12)	next test address
0000031C	47F0 80E4		000002E4	234	B	NEXTE6	none cose unu oss
					_		

SMA Ver.	0. 7. 0 zvector-e6	-02-stores (Zvector E6	VRX stores)			18 Jun 2024 18: 57: 02 Page	8
LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				236 ******	*****	******	************	
				237 * resul	t not a	as expected:		
				238 * 239 *	i ssue	e message with and instructi	test number, instruction under test	
				240 ******	*****		************	
000000	45TO 0440	00000320		241 FAILMSG		*		
J000320	45F0 8142		00000342	242 243	BAL	R15, RPTERROR		
				210				
				945 *****	*****	******	************	
						er a failed te		
				247 ******	*****	******	*************	
0000324	5800 82B4	00000324	00000001 000004B4	248 FAILCON 249		* DO _E' 1'	set failed test indicator	
0000324	5000 8E00		00001000	250	L ST	RO, =F' 1' RO, FAILED	set faired test findicator	
000000	44.00 0004		0000001	251		,		
	41C0 C004 47F0 80E4		00000004 000002E4	252 253	LA B	R12, 4(0, R12) NEXTE6	next test address	
000030	4710 OOL4		00000£L4	200	ь	NLXILO		
				255 ******	***	*****	***********	
					f testi	ng: set ending		
						ng; set ending	************	
0000334	5810 8E00	00000334	00000001 00001000	258 ENDTEST 259	EQU L	* R1, FAILED	did a test fail?	
0000334	1211		00001000	260	LTR	R1, R1	uru a test rarr:	
000033A	4780 8288		00000488	261	BZ	EOJ	No, exit	
000033E	47F0 82A0		000004A0	262 263	В	FAILTEST	Yes, exit with BAD PSW	
				200				

ASMA Ver.	0.7.0 zvector-e6-0	2-stores	(Zvector E6	VRX stores)			18 Jun 2024 18: 57: 02 Page 10
LOC	OBJECT CODE	ADDR1	ADDR2	STMF			
				304 ******* 305 * 306 * 307 *****	Issue	HERCULES MESSAGE poi R2 = return address	**************************************
000003C0 000003C4	4900 82B8 07D2		000004B8	309 MSG 310	CH BNHR	RO, =H' O' R2	Do we even HAVE a message? No, ignore
000003C6	9002 81FC		000003FC	312	STM	RO, R2, MSGSAVE	Save registers
000003CA 000003CE 000003D2	4900 82BA 47D0 81D6 4100 005F		000004BA 000003D6 000005F	314 315 316	CH BNH LA	RO, =AL2(L' MSGMSG) MSGOK RO, L' MSGMSG	Message length within limits? Yes, continue No, set to maximum
000003D6 000003D8 000003DA	1820 0620 4420 8208		00000408	318 MSGOK 319 320	LR BCTR EX	R2, R0 R2, 0 R2, MSGMVC	Copy length to work register Minus-1 for execute Copy message to O/P buffer
000003DE 000003E2	4120 200A 4110 820E		0000000A 0000040E	322 323	LA LA	R2, 1+L' MSGCMD(, R2) R1, MSGCMD	Calculate true command length Point to true command
000003E6 000003EA	83120008 4780 81F6		000003F6	325 326	DC BZ	X' 83' , X' 12' , X' 0008' MSGRET	Issue Hercules Diagnose X'008' Return if successful
000003EE 000003F0	1222 4780 81F6		000003F6	327 328 329	LTR BZ	R2, R2 MSGRET	Is Diag8 Ry (R2) 0? an error occurred but coninue
000003F4	0000			330 331	DC	Н' О'	CRASH for debugging purposes
000003F6 000003FA	9802 81FC 07F2		000003FC	333 MSGRET 334	LM BR	RO, R2, MSGSAVE R2	Restore registers Return to caller
000003FC 00000408	00000000 00000000 D200 8217 1000	00000417	00000000	336 MSGSAVI 337 MSGMVC	E DC MVC	3F' 0' MSGMSG(0), 0(R1)	Registers save area Executed instruction
	D4E2C7D5 D6C8405C 40404040 40404040			339 MSGCMD 340 MSGMSG 341	DC DC	C' MSGNOH * ' CL95' '	*** HERCULES MESSAGE COMMAND *** The message text to be displayed

ASMA Ver.	0.7.0 zvector-e6-0	2-stores	(Zvector	E6	VRX	stores)			18 Jun 2024 18: 57: 02 Page	11
LOC	OBJECT CODE	ADDR1	ADDR2		STM					
					344	****** * *****	***** Norma *****	**************** l completion or **********	**************************************	
00000478	00020001 80000000				347	EOJPSW	DC	OD' O' , X' 000200	018000000', AD(0)	
00000488	B2B2 8278		000004	78	349	ЕОЈ	LPSWE	EOJPSW	Normal completion	
00000490	00020001 80000000				351	FAILPSW	DC	OD' O' . X' 000200	0180000000', AD(X'BAD')	
	B2B2 8290		0000049	90		FAILTEST			Abnormal termination	
					355 356 357			**************************************	************	
000004A4	0000000				359	CTLRO	DS	F	CRO	
000004A8	00000000				360		DS	F		
000004AC 000004AC 000004B0	00000008 000014D0				362 363 364		LTORG	=F' 8' =A(E6TESTS)	Literals pool	
000004B4 000004B8 000004BA	00000001 0000 005F				365 366 367			=F' 1' =H' 0' =AL2(L' MSGMSG)		
					368 369 370	*		constants		
		00000400 00001000 00010000	000000	01 01	373	PAGE K64	EQU EQU EQU	1024 (4*K) (64*K)	One KB Size of one page 64 KB	
		00100000			375		EQU	(K*K)	1 MB	
		AABBCCDD 00000DD			376 377	REG2PATT REG2LOW	EQU EQU	X' AABBCCDD' X' DD'	Polluted Register pattern (last byte above)	

ASMA Ver.	0. 7. 0 zvect	or-e6-02-stores	(Zvector l	E6 VRX	stores)			18 Jun 2024 18: 57: 02 Page 13
LOC	овјест со	DE ADDR1	ADDR2	STMI	1			
				418 419	*******	E6TES	Γ DSECT	**************************************
00000000 00000004 00000006	0000			423	E6TEST TSUB TNUM	DSECT DC DC DC	, A(0) H' 00' X' 00'	pointer to test Test Number
00000007					MB	DC		MB used
00000008 00000010 00000014		04040		428 429 430	OPNAME RELEN READDR	DC DC DC		E6 name RESULT LENGTH
				431 432 433	*			here (from VRX macro)
				434 435		10110	wed by EXPECTED RESULT	Γ
000010D4		0000000	0 00001533	3 437 438	ZVE6TST	CSECT DS	OF	
				441			**************************************	**************************************
				446 447 448	* macro *	MACRO	erate individual &INST, &MB	test &INST - VRX instruction under test
				451 452			&TNUM &TNUM+1	&M3 - m3 field
				454 455 456	:	DS USING	OFD	base for test data and test routine
				459	T&TNUM	DC DC	A(X&TNUM) H'&TNUM	address of test routine test number
				460 461 462 463		DC DC DC DC	X' 00' X' &M3' CL8' &I NST' A(16)	MB instruction name result length
				465 466			A(RE&TNUM)	result length result address
				467 468	X&TNUM	DS &I NST	OF V1, V10UTPUT, &MS	3 test instruction

	0. 7. 0 zvector- e6							18 Jun 2024 18: 57: 02 Page	1
LOC	OBJECT CODE	ADDR1	ADDR2	STM					
				469		BR	R11	return	
				470 471	RE&TNUM	DC	OF	xl16 result	
				472				ATTO Tesure	
				473		DROP	R 5		
				474		MEND			
				476	*				
				477	* macro	to gen	erate table o	f pointers to individual tests	
				478 479	*	MACRO			
				480		PTTAB	LE		
				481 482		GBLA LCI A	&TNUM &CUR		
				483	&CUR	SETA	1		
				484	. * TTABLE	DS	0F		
				486	. LOOP	ANOP	OI.		
				487 488	*	DC	A (ToCUD)	TEST &CUR	
				489	. *	DC	A(T&CUR)	IESI &CUK	
				490	&CUR	SETA	&CUR+1	TIMA LOOD	
				491 492	*	AIF	(&CUR LE &TN	UMJ. LUUP	
				493		DC	A(0)	END OF TABLE	
				494 495	*	DC	A(0)		
				496		MEND			

	0. 7. 0 zvector-e6-0	•		•			18 Jun 2024 18: 57: 02 Page
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				498 ******** 499 *		************** X tests	************
				500 ******	*****	******	***********
				501	PRINT	DATA	
				502 503 *	F609	VSTFRRH - VFCTO	OR STORE BYTE REVERSED ELEMENT (16)
				504 *	E60A	VSTEBRG - VECTO	R STORE BYTE REVERSED ELEMENT (64)
				505 *			OR STORE BYTE REVERSED ELEMENT (32)
				506 * 507 *	E60E '		OR STORE BYTE REVERSED ELEMENTS OR STORE ELEMENTS REVERSED
				508			
				509 *	VRX	instruction, n	
				510 * 511 *		TOLLOWED BY 16	byte expected result
				512 * VSTEBI	RH - VE	CTOR STORE BYTE	REVERSED ELEMENT (16)
				513 * 514	VRX	VSTEBRH, 0	
00010D8				515+	DS	OFD	
00010D8 00010D8	000010F0	000010D8		516+ 517+T1	USING		base for test data and test routine address of test routine
00010D8	00010F0			517+11 518+	DC DC	A(X1) H' 1'	test number
00010DE	00			519 +	DC	X' 00'	
00010DF 00010E0	00 E5E2E3C5 C2D9C840			520+ 521+	DC DC	X' 0' CL8' VSTEBRH'	MB instruction name
00010E0 00010E8	00000010			522+	DC DC	A(16)	result length
00010EC	000010F8			523+REA1	DC	A(RE1)	result address
00010F0				524+* 525+	DS	OF	
00010F0	E610 8E84 0009		00001084	526+X1			0 test instruction
00010F6	07FB			527+	BR	R11	return
00010F8 00010F8				528+RE1 529+	DC DROP	OF R5	xl16 result
00010F8	0100FFFF FFFFFFF			530	DC		'FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
0001100	FFFFFFFF FFFFFFF			531			
				532	VRX	VSTEBRH, 1	
0001108				533 +	DS	OFD	
0001108 0001108	00001120	00001108		534+ 535+T2	USI NG DC	*, R5 A(X2)	base for test data and test routine address of test routine
000110C	0002			536 +	DC	H' 2'	test number
000110E	00			537+	DC	X' 00'	in .
000110F 0001110	01 E5E2E3C5 C2D9C840			538+ 539+	DC DC	X' 1' CL8' VSTEBRH'	MB instruction name
0001118	0000010			540 +	DC	A(16)	result length result address
000111C	00001128			541+REA2 542+*	DC	A(RE2)	result address
0001120				542+* 543+	DS	0F	
0001120	E610 8E84 1009		00001084	544+X2	VSTEB	RH V1, V10UTPUT,	
0001126 0001128	07FB			545+ 546+ RE 2	BR DC	R11 OF	return xl16 result
0001128				547+	DROP		ALIO LESUIC
0001128	0302FFFF FFFFFFFF			548	DC		'FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
0001130	FFFFFFF FFFFFFF			549			
				550	VRX	VSTEBRH, 2	
0001138				551+	DS	OFD	

ASMA Ver.	0. 7. 0 zv	ector-e6-02	2-stores (Zvector E6	VRX stores)			18 Jun 2024 18: 57: 02 Page 16
LOC	OBJECT	CODE	ADDR1	ADDR2	STMT			
00001138 00001138	00001150		00001138		552+ 553+T3	USI NG DC	A(X3)	base for test data and test routine address of test routine
0000113C 0000113E 0000113F	0003 00 02				554+ 555+ 556+	DC DC DC	H' 3' X' 00' X' 2'	test number MB
00001140 00001148 0000114C	E5E2E3C5 00000010 00001158	C2D9C840			557+ 558+ 559+REA3	DC DC DC	CL8' VSTEBRH' A(16) A(RE3)	instruction name result length result address
00001150 00001150	E610 8E84	2000		00001084	560+* 561+ 562+X3	DS	OF RH V1, V10UTPUT, 2	test instruction
00001156 00001158	07FB	2009		00001004	563+ 564+RE3	BR DC	R11 0F	return xl 16 result
00001158 00001158 00001160	0504FFFF FFFFFFFF				565+ 566	DROP DC	R5 XL16' 0504FFFFFFF	'FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
00001168					567 568 569+	VRX DS	VSTEBRH, 3 OFD	
00001168 00001168	00001180		00001168		570+ 571+T4	USI NG DC	*, R5 A(X4)	base for test data and test routine address of test routine
0000116C 0000116E 0000116F	0004 00 03				572+ 573+ 574+	DC DC DC	H' 4' X' 00' X' 3'	test number M3
00001170 00001178 0000117C	E5E2E3C5 00000010 00001188	C2D9C840			575+ 576+ 577+REA4	DC DC DC	CL8' VSTEBRH' A(16) A(RE4)	instruction name result length result address
00001180		2000		00001001	578+* 579+	DS	OF	
00001180 00001186 00001188	E610 8E84 07FB	3009		00001084	580+X4 581+ 582+RE4	BR DC	RH V1, V10UTPUT, 3 R11 OF	test instruction return xl 16 result
	0706FFFF FFFFFFFF				583+ 584	DROP DC	R5 XL16' 0706FFFFFFF	166666666666666666666666666666666666666
00001198					585 586 587+	VRX DS	VSTEBRH, 4 OFD	
00001198 00001198 0000119C	000011B0 0005		00001198		588+ 589+T5 590+	USI NG DC DC		base for test data and test routine address of test routine test number
0000119E 0000119F 000011A0	00 04 E5E2E3C5	C2D9C840			591+ 592+ 593+		X' 00' X' 4' CL8' VSTEBRH'	MB instruction name
000011A8 000011AC	00000010 000011B8				594+ 595+REA5 596+*	DC DC	A(16) A(RE5)	result length result address
000011B0 000011B0 000011B6	E610 8E84 07FB	4009		00001084	597+ 598+X5 599+	DS VSTEBI BR	OF RH V1, V10UTPUT, 4 R11	test instruction return
000011B8 000011B8 000011B8	0908FFFF	FFFFFFF			600+RE5 601+ 602	DC DROP DC	OF R5	xl16 result FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
000011C0	FFFFFFF				603 604	VRX	VSTEBRH, 5	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
0011C8				605 +		OFD	
0011C8		000011C8		606 +	USING	*, R 5	base for test data and test routine
0011C8	000011E0			607+T6		A(X6)	address of test routine
011CC	0006			608+		H' 6'	test number
011CE	00			609+		X' 00'	cese number
011CE	05			610+		X' 5'	MB
		,					
011D0	E5E2E3C5 C2D9C840)		611+	DC	CL8' VSTEBRH'	instruction name
011D8	00000010			612+		A(16)	result length
011DC	000011E8			613+REA6	DC	A(RE6)	result address
				614+*			
011E0				615+		OF	
0011E0	E610 8E84 5009		00001084	616+X6	VSTEBE	RH V1, V10UTPUT, 5	test instruction
011E6	07FB			617+		R11	return
0011E8				618+RE6	DC	OF	xl16 result
011E8				619+		R5	
0011E8	1110FFFF FFFFFFF	7		620			FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
011E0 0011F0	FFFFFFFF FFFFFFFF			0~0	20		
,01110	TITLITE PEPPER			621			
				622	VRX	VSTEBRH, 6	
)011F0					VKA DS	OFD	
0011F8		00001150		623+			has for took data and took working
0011F8	00001010	000011F8		624+	USING		base for test data and test routine
0011F8	00001210			625+T7		$\mathbf{A}(\mathbf{X7})$	address of test routine
0011FC	0007			626 +		H' 7'	test number
)011FE	00			627+		X' 00'	
0011FF	06			628 +	DC	X' 6'	MB
001200	E5E2E3C5 C2D9C840)		629 +	DC	CL8' VSTEBRH'	instruction name
001208	00000010			630+		A(16)	result length
00120C	00001218			631+REA7		A(RE7)	result address
001200	00001210			632+*	20	11(1021)	
001210				633+	DS	0F	
001210	E610 8E84 6009		00001084	634+X7		RH V1, V10UTPUT, 6	test instruction
	07FB		00001004	635+			
001216	U/FD					R11	return
001218				636+RE7	DC	0F	xl16 result
001218		_		637+	DROP		
	1312FFFF FFFFFFFI			638	DC	XL16' 1312FFFFFFF	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
01220	FFFFFFFF FFFFFFFFFFFFFFFFFFFFFFFFFFFFF	7					
				639			
				640	VRX	VSTEBRH, 7	
001228				641+	DS	OFD	
001228		00001228		642+	USING		base for test data and test routine
001228	00001240			643+T8		A(X8)	address of test routine
00122C	0008			644+		H' 8'	test number
00122E	0008			645+		X' 00'	COC HUIDOI
0122E	07			646+		X' 7'	MB
		1					
001230	E5E2E3C5 C2D9C840	,		647+		CL8' VSTEBRH'	instruction name
001238	00000010			648+		A(16)	result length result address
00123C	00001248			649+REA8	DC	A(RE8)	result address
				650 +*	_		
001240				651 +		0F	
001240	E610 8E84 7009		00001084	652+X8	VSTEBE	RH V1, V10UTPUT, 7	test instruction
001246	07FB			653+		R11	return
001248				654+RE8		OF	xl 16 result
001248				655+		R5	ALLO LOGUIC
001248	1514FFFF FFFFFFF	7		656			FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
				030	DC	ALIU IJI4FFFFFF	TETTETTTTTTTTTTTTT
701230	FFFFFFFF FFFFFFFFFFFFFFFFFFFFFFFFFFFFF			657			

711+*

ASWA ver.	0. 7. 0 zvector- e6-0	02-stores (Zvector E6	VRX stores)			18 Jun 2024 18: 57: 02 Page 19
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
000012D0	T040 0T04 000D		00001001	712+	DS	OF	
000012D0	E610 8E84 000B		00001084	713+X11		RF V1, V10UTPUT, 0	test instruction
000012D6	07FB			714+	BR	R11	return
000012D8				715+RE11	DC	OF	xl16 result
000012D8 000012D8	03020100 FFFFFFF			716+ 717	DROP DC	R5	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
000012D8 000012E0	FFFFFFF FFFFFFF				DC	ALIO USUZUIUUFFFF	
				718			
00001000				719	VRX	VSTEBRF, 1	
000012E8		000010E0		720+	DS	OFD * D7	have Contract data and tract months
000012E8	00001200	000012E8		721+	USING		base for test data and test routine
000012E8	00001300			722+T12	DC	A(X12)	address of test routine
000012EC	000C			723+ 724+	DC	H' 12'	test number
000012EE	00 01			724+ 725+	DC DC	X' 00' X' 1'	M3
000012EF							
000012F0 000012F8	E5E2E3C5 C2D9C640 00000010			726+ 727+	DC DC	CL8' VSTEBRF'	instruction name
				727+ 728+REA12	DC	A(16)	result length result address
000012FC	00001308			728+KEA12 729+*	DС	A(RE12)	resurt audress
00001300				729+ · 730+	DS	0F	
00001300	E610 8E84 100B		00001084	730+ 731+X12		RF V1, V10UTPUT, 1	test instruction
00001300	07FB		00001004	731+X12 732+	BR	R11	return
00001308	U/FB			732+ 733+RE12	DC	0F	xl 16 result
00001308				733+RE12 734+	DROP	R5	XIIO TESUIT
00001308	07060504 FFFFFFF			735	DC		FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
00001308	FFFFFFF FFFFFFF			700	ЪС	AL10 07000304FFFF	
00001010				736			
				737	VRX	VSTEBRF, 2	
00001318				738+	DS	OFD	
00001318		00001318		739+	USING		base for test data and test routine
00001318	00001330						
	00001000			740+T13	DC	A(X13)	address of test routine
0000131C				740+T13 741+	DC DC	A(X13) H' 13'	address of test routine test number
0000131C 0000131E	0001330 000D 00			740+T13 741+ 742+	DC	A(X13) H' 13' X' 00'	address of test routine test number
	000D			741 +		Н' 13'	
0000131E	000D 00			741+ 742+	DC DC	H' 13' X' 00'	test number
0000131E 0000131F	000D 00 02			741+ 742+ 743+	DC DC DC	H' 13' X' 00' X' 2'	MB instruction name result length
0000131E 0000131F 00001320	000D 00 02 E5E2E3C5 C2D9C640			741+ 742+ 743+ 744+ 745+ 746+REA13	DC DC DC DC	H' 13' X' 00' X' 2' CL8' VSTEBRF'	test number M3
0000131E 0000131F 00001320 00001328 0000132C	000D 00 02 E5E2E3C5 C2D9C640 00000010			741+ 742+ 743+ 744+ 745+ 746+REA13 747+*	DC DC DC DC DC	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13)	MB instruction name result length
0000131E 0000131F 00001320 00001328 0000132C	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338			741+ 742+ 743+ 744+ 745+ 746+REA13 747+*	DC DC DC DC DC DC DC	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF	MB instruction name result length result address
0000131E 0000131F 00001320 00001328 0000132C 00001330 00001330	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338		00001084	741+ 742+ 743+ 744+ 745+ 746+REA13 747+* 748+ 749+X13	DC DC DC DC DC DC VSTEB	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF RF V1, V10UTPUT, 2	MB instruction name result length result address test instruction
0000131E 0000131F 00001320 00001328 0000132C 00001330 00001330	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338		00001084	741+ 742+ 743+ 744+ 745+ 746+REA13 747+* 748+ 749+X13 750+	DC DC DC DC DC DC VSTEB	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF RF V1, V10UTPUT, 2 R11	MB instruction name result length result address test instruction return
0000131E 0000131F 00001320 00001328 0000132C 00001330 00001336 00001338	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338		00001084	741+ 742+ 743+ 744+ 745+ 746+REA13 747+* 748+ 749+X13 750+ 751+RE13	DC DC DC DC DC DC VSTEB	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF RF V1, V10UTPUT, 2 R11 OF	MB instruction name result length result address test instruction
0000131E 0000131F 00001320 00001328 0000132C 00001330 00001336 00001338 00001338	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338 E610 8E84 200B 07FB		00001084	741+ 742+ 743+ 744+ 745+ 746+REA13 747+* 748+ 749+X13 750+ 751+RE13 752+	DC DS VSTEB BR DC DROP	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF RF V1, V10UTPUT, 2 R11 OF R5	MB instruction name result length result address test instruction return xl 16 result
0000131E 0000131F 00001320 00001328 0000132C 00001330 00001336 00001338 00001338	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338 E610 8E84 200B 07FB		00001084	741+ 742+ 743+ 744+ 745+ 746+REA13 747+* 748+ 749+X13 750+ 751+RE13	DC DC DC DC DC DC VSTEB	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF RF V1, V10UTPUT, 2 R11 OF R5	MB instruction name result length result address test instruction return
0000131E 0000131F 00001320 00001328 0000132C 00001330 00001336 00001338 00001338	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338 E610 8E84 200B 07FB		00001084	741+ 742+ 743+ 744+ 745+ 746+REA13 747+* 748+ 749+X13 750+ 751+RE13 752+ 753	DC DS VSTEB BR DC DROP	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF RF V1, V10UTPUT, 2 R11 OF R5	MB instruction name result length result address test instruction return xl 16 result
0000131E 0000131F 00001320 00001328 0000132C 00001330 00001336 00001338 00001338	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338 E610 8E84 200B 07FB		00001084	741+ 742+ 743+ 744+ 745+ 746+REA13 747+* 748+ 749+X13 750+ 751+RE13 752+ 753	DC D	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF RF V1, V10UTPUT, 2 R11 OF R5 XL16' 11100908FFFF	MB instruction name result length result address test instruction return xl 16 result
0000131E 0000131F 00001320 00001328 0000132C 00001330 00001336 00001338 00001338 00001338	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338 E610 8E84 200B 07FB		00001084	741+ 742+ 743+ 744+ 745+ 746+REA13 747+* 748+ 749+X13 750+ 751+RE13 752+ 753	DC DC DC DC DC DC DC DC VSTEB BR DC DROP DC	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF RF V1, V10UTPUT, 2 R11 OF R5 XL16' 11100908FFFF	MB instruction name result length result address test instruction return xl 16 result
0000131E 0000131F 00001320 00001328 0000132C 00001330 00001336 00001338 00001338 00001338 00001340	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338 E610 8E84 200B 07FB	00001242	00001084	741+ 742+ 743+ 744+ 745+ 746+REA13 747+* 748+ 749+X13 750+ 751+RE13 752+ 753	DC DC DC DC DC DC DC DC VSTEB BR DC DROP DC VRX DS	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF RF V1, V10UTPUT, 2 R11 OF R5 XL16' 11100908FFFF VSTEBRF, 3 OFD	MB instruction name result length result address test instruction return xl 16 result FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
0000131E 0000131F 00001320 00001328 0000132C 00001330 00001336 00001338 00001338 00001338 00001348	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338 E610 8E84 200B 07FB 11100908 FFFFFFF FFFFFFFFFFFFFFFFFFFFFFFFFFFFF	00001348	00001084	741+ 742+ 743+ 744+ 745+ 746+REA13 747+* 748+ 749+X13 750+ 751+RE13 752+ 753 754 755 756+ 757+	DC DC DC DC DC DC DC DC VSTEB BR DC DROP DC VRX DS USING	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF RF V1, V10UTPUT, 2 R11 OF R5 XL16' 11100908FFFF VSTEBRF, 3 OFD *, R5	MB instruction name result length result address test instruction return xl16 result FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
0000131E 0000131F 00001320 00001328 0000132C 00001330 00001336 00001338 00001338 00001348 00001348 00001348	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338 E610 8E84 200B 07FB 11100908 FFFFFFF FFFFFFFF FFFFFFFF 00001360	00001348	00001084	741+ 742+ 743+ 744+ 745+ 746+REA13 747+* 748+ 749+X13 750+ 751+RE13 752+ 753 754 755 756+ 757+ 758+T14	DC DC DC DC DC DC DC DC VSTEB BR DC DROP DC VRX DS USING DC	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF RF V1, V10UTPUT, 2 R11 OF R5 XL16' 11100908FFFF VSTEBRF, 3 OFD *, R5 A(X14)	MB instruction name result length result address test instruction return xl16 result FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
0000131E 0000131F 00001320 00001328 0000132C 00001330 00001336 00001338 00001338 00001340 00001348 00001348 00001348	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338 E610 8E84 200B 07FB 11100908 FFFFFFFF FFFFFFFF FFFFFFFFFFFFFFFFFFF	00001348	00001084	741+ 742+ 743+ 744+ 745+ 746+REA13 747+* 748+ 749+X13 750+ 751+RE13 752+ 753 754 755 756+ 757+ 758+T14 759+	DC DC DC DC DC DC DC DC VSTEB BR DC DROP DC VRX DS USING DC DC	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF RF V1, V10UTPUT, 2 R11 OF R5 XL16' 11100908FFFF VSTEBRF, 3 OFD *, R5 A(X14) H' 14'	MB instruction name result length result address test instruction return xl16 result FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
0000131E 0000131F 00001320 00001328 0000132C 00001330 00001336 00001338 00001338 00001338 00001340 00001348 00001348 0000134C 0000134E	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338 E610 8E84 200B 07FB 11100908 FFFFFFF FFFFFFFF FFFFFFFF 00001360 000E 00	00001348	00001084	741+ 742+ 743+ 744+ 745+ 746+REA13 747+* 748+ 749+X13 750+ 751+RE13 752+ 753 754 755 756+ 757+ 758+T14 759+ 760+	DC DC DC DC DC DC DC DC DC DS VSTEB BR DC DROP DC VRX DS USING DC DC DC	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF RF V1, V10UTPUT, 2 R11 OF R5 XL16' 11100908FFFF VSTEBRF, 3 OFD *, R5 A(X14) H' 14' X' 00'	MB instruction name result length result address test instruction return xl16 result FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
0000131E 0000131F 00001320 00001328 0000132C 00001330 00001336 00001338 00001338 00001338 00001340 00001348 00001348 0000134C 0000134E 0000134F	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338 E610 8E84 200B 07FB 11100908 FFFFFFFF FFFFFFFFFFFFFFFFFFFFFFFFFFFF	00001348	00001084	741+ 742+ 743+ 744+ 745+ 746+REA13 747+* 748+ 749+X13 750+ 751+RE13 752+ 753 754 755 756+ 757+ 758+T14 759+ 760+ 761+	DC DS VSTEB BR DC DROP DC VRX DS USI NG DC DC DC DC DC	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF RF V1, V10UTPUT, 2 R11 OF R5 XL16' 11100908FFFF VSTEBRF, 3 OFD *, R5 A(X14) H' 14' X' 00' X' 3'	MB instruction name result length result address test instruction return xl16 result FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
0000131E 0000131F 00001320 00001328 0000132C 00001330 00001336 00001338 00001338 00001338 00001348 00001348 00001348 0000134C 0000134F 00001350	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338 E610 8E84 200B 07FB 11100908 FFFFFFFF FFFFFFFFFFFFFFFFFFFFFFFFFFFF	00001348	00001084	741+ 742+ 743+ 744+ 745+ 746+REA13 747+* 748+ 749+X13 750+ 751+RE13 752+ 753 754 755 756+ 757+ 758+T14 759+ 760+ 761+ 762+	DC D	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF RF V1, V10UTPUT, 2 R11 OF R5 XL16' 11100908FFFF VSTEBRF, 3 OFD *, R5 A(X14) H' 14' X' 00' X' 3' CL8' VSTEBRF'	MB instruction name result length result address test instruction return xl16 result FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
0000131E 0000131F 00001320 00001328 0000132C 00001330 00001336 00001338 00001338 00001338 00001340 00001348 00001348 0000134C 0000134E 0000134F	000D 00 02 E5E2E3C5 C2D9C640 00000010 00001338 E610 8E84 200B 07FB 11100908 FFFFFFFF FFFFFFFFFFFFFFFFFFFFFFFFFFFF	00001348	00001084	741+ 742+ 743+ 744+ 745+ 746+REA13 747+* 748+ 749+X13 750+ 751+RE13 752+ 753 754 755 756+ 757+ 758+T14 759+ 760+ 761+	DC DS VSTEB BR DC DROP DC VRX DS USI NG DC DC DC DC DC	H' 13' X' 00' X' 2' CL8' VSTEBRF' A(16) A(RE13) OF RF V1, V10UTPUT, 2 R11 OF R5 XL16' 11100908FFFF VSTEBRF, 3 OFD *, R5 A(X14) H' 14' X' 00' X' 3'	MB instruction name result length result address test instruction return xl16 result FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

815+T17

816+

817 +

DC

DC

DC

A(X17)

H' 17'

X' 00'

address of test routine

test number

000013D8

000013DC

000013DE

000013F0

0011

	0.7.0 2.00001 00 0	- stores (Zvector E6	VRX stores)				18 Jun 202	4 18: 57: 02	Page	21
LOC	OBJECT CODE	ADDR1	ADDR2	STMT							
000013DF	03			818+	DC	X' 3'	MB				
000013E0	E5E2E3C2 D9404040			819+		CL8' VSTBR'	instruction				
000013E8 000013EC	00000010 000013F8			820+ 821+REA17 822+*	DC DC	A(16) A(RE17)	result lengt result addre	th ess			
000013F0 000013F0 000013F6	E610 8E84 300E 07FB		00001084	823+ 824+X17 825+	DS VSTBR BR	OF V1, V10UTPUT, 3 R11	test instruc	ction			
000013F8 000013F8				826+RE17 827+	DC DROP	OF R5	xl16 result				
000013F8 00001400	07060504 03020100 15141312 11100908			828	DC	XL16' 0706050403020	010015141312	11100908'			
				829 830	VRX	VSTBR, 4					
00001408				831+	DS	OFD					
00001408 00001408	00001420	00001408		832+ 833+T18	USI NG DC	*, R5 A(X18)	base for test address of t			ne	
0000140C 0000140E	0012 00			834+ 835+	DC DC	H' 18' X' 00'	test number				
0000140E	04			836+	DC	X' 4'	MB				
00001410	E5E2E3C2 D9404040			837+	DC	CL8' VSTBR'	instruction				
00001418 0000141C	00000010 00001428			838+ 839+REA18	DC DC	A(16) A(RE18)	result lengt result addre	th oss			
00001410	00001420			840+*	ъс	A(ML10)	resurt audre	CSS			
00001420				841+	DS	OF					
00001420	E610 8E84 400E		00001084	842+X18		V1, V10UTPUT, 4	test instruc	cti on			
00001426 00001428	07FB			843+ 844+RE18	BR DC	R11 0F	return xl16 result				
00001428	48444040 44400000			845+	DROP	R5		000001001			
00001428 00001430	15141312 11100908 07060504 03020100			846	DC	XL16' 1514131211100	J908070605040	03020100'			
				847 848 *							
					- VEC	CTOR STORE ELEMENTS	S REVERSED				
				851	VRX	VSTER, 1					
00001438				852+	DS	OFD					
00001438 00001438	00001450	00001438		853+ 854+T19	USI NG DC	*, R5 A(X19)	base for test address of t			ne	
	0001430			855+	DC DC	H' 19'	test number		2		
0000143E	00			856 +	DC	X' 00'					
	01 EFF0F0CF D0404040			857+		X' 1'	MB				
	E5E2E3C5 D9404040 00000010			858+ 859+	DC DC	CL8' VSTER' A(16)	instruction result lengt				
	00001458			860+REA19	DC	A(RE19)	result addre				
00001450				861+* 862+	DS	OF					
	E610 8E84 100F		00001084	863+X19			test instruc	ction			
00001456	07FB			864+	BR	R11	return				
00001458				865+RE19 866+	DC DROP	OF R5	xl16 result				
NNNN1150				867	DROP DC	XL16' 1415121310110	0809060704050	12030001 '			
	14151213 10110809 06070405 02030001							02030001			
00001458				868 869		VSTER, 2		02030001			

ASMA Ver. 0.7.0 zvector-e6-02-stores (Zvector E6 VRX stores)

ADDR1

00001468

00001498

ADDR2

00001084

00001084

STM

871+

873+

874+

875+

876+

877+

879+*

881+X20

883+RE20

880+

882+

884+

885

886

887

888+

889+

891+

892+

893+

894+

895+

897+* 898+

900+

902+

903

904

905

906

899+X21

901+RE21

896+REA21

890+T21

878+REA20

872+T20

OBJECT CODE

00001480

00001470 E5E2E3C5 D9404040

00000010

00001488

000014B0

00000010

000014B8

00000000

0015

07FB

00

03

E610 8E84 200F

12131415 08091011

04050607 00010203

E5E2E3C5 D9404040

E610 8E84 300F

08091011 12131415

00010203 04050607

0014

07FB

00

02

LOC

00001468

00001468

0000146C

0000146E

0000146F

00001478

0000147C

00001480

00001480

00001486

00001488

00001488

00001488

00001490

00001498

00001498

00001498

0000149C

0000149E

0000149F

000014A0

000014A8 000014AC

000014B0

000014B0

000014B6

000014B8

000014B8

000014B8 000014C0

000014C8

907 * 908 * table of pointers to individual load test 909 *

USING *, R5

DC

DC

DC

DC

DC

DC

DC

DS

BR

DC

DC

VRX

DS

DC

DC

DC

DC

DC

DC

DC

DS

BR

DC

DC

DC

DC

DROP

DROP R5

A(X20)

CL8' VSTER'

MB

return

MB

return

END OF TABLE

H' 20'

X' 00'

A(16)

A(RE20)

VSTER V1, V10UTPUT, 2

VSTER, 3

A(X21)

CL8' VSTER'

H' 21'

X' 00' X' 3'

A(16)

0F

R11

0F

R5

F' 0'

F' 0'

A(RE21)

VSTER V1, V10UTPUT, 3

OFD

USING *, R5

X' 2'

0F

R11

0F

		JUJ				
000014D0		910 E6TESTS	DS	OF		
		911	PTTAB	LE		
000014D0		912+TTABLE	DS	0F		
000014D0	000010D8	913+	DC	A(T1)	TEST &CUR	
000014D4	00001108	914+	DC	A(T2)	TEST &CUR	
000014D8	00001138	915+	DC	A(T3)	TEST &CUR	
000014DC	00001168	916+	DC	A(T4)	TEST &CUR	
000014E0	00001198	917+	DC	A(T5)	TEST &CUR	
000014E4	000011C8	918+	DC	A(T6)	TEST &CUR	
000014E8	000011F8	919+	DC	A(T7)	TEST &CUR	
000014EC	00001228	920+	DC	A(T8)	TEST &CUR	
000014F0	00001258	921+	DC	A(T9)	TEST &CUR	
000014F4	00001288	922+	DC	A(T10)	TEST &CUR	
000014F8	000012B8	923+	DC	A(T11)	TEST &CUR	
000014FC	000012E8	924+	DC	A(T12)	TEST &CUR	

	0. 7. 0 zvector- e6	or scores (Zvector E	o vim scores,				18 Jun 2024 1	0.07.02	rage	25
LOC	OBJECT CODE	ADDR1	ADDR2	STMF							
		00000016	00000001	988 V22	EQU	22					
		00000017 00000018	00000001 00000001	989 V23 990 V24	EQU EQU	23 24					
		00000019 000001A	0000001	991 V25 992 V26	EQU	25 26					
		0000001B	0000001	993 V27	EQU	22 23 24 25 26 27 28 29 30 31					
		0000001C 0000001D	00000001 00000001	994 V28 995 V29	EQU EQU	28 29					
		000001E	00000001	996 V30	EQU	30					
		000001F	0000001	997 V31 998		31					
				999	END						

CVMDAT	TVDE	NAT UE	I PACTI	DEEM	neer	DENCE	C												Page	2
SYMBOL	TYPE -	VALUE	LENGTH	DEFN		RENCE														
EGI N	<u>I</u>	00000200	2	160	125	156	157	158												
ΓLRO	F	000004A4	4	359	170	171	172	173												
ECNUM	C	00001072	16	406	273	275	281	283												
6TEST	4	0000000	24	422	219															
6TESTS	F	000014D0	4	910	212															
DIT	X	00001046	18	401	274	282														
NDTEST	U	00000334	1	258	217															
0J	I	00000488	4	349	205	261														
OJPSW	D	00000478	8	347	349															
AI LCONT	U	00000324	1	248																
AI LED	F	00001000	4	387	250	259														
AI LMSG	Ī	00000320	1	241	231															
AILPSW	Ď	00000490	8	351	353															
ALLTEST	Ĩ	000004A0	4	353	262															
B0001	F	00000290	8	189	193	194	196													
MAGE	1	00000230	5428	0	100	101	100													
VHUL	Ĭ	0000000	J460 1	371	372	373	374													
64	TI	00010000	1	373	312	373	3/4													
	V	0001000	1	426	200															
3	X		1		280															
B	Ų	00100000	1	374	004	000														
SG	I	000003C0	4	309	204	292														
SGCMD	C	0000040E	9	339	322	323	04.4													
SGMSG	Č	00000417	95	340	316	337	314													
SGMVC	Ī	00000408	6	337	320															
SGOK	Ī	000003D6	2	318	315															
SGRET	I	000003F6	4	333	326	329														
SGSAVE	\mathbf{F}	000003FC	4	336	312	333														
EXTE6	U	000002E4	1	214	234	253														
PNAME	C	00000008	8	428	278															
AGE	U	00001000	1	372																
RT3	C	0000105C	18	404	274	275	276	282	283	284										
RTLINE	C	00001008	16	393	400	291														
RTLNG	U	000003E	1	400	290															
RTMB	Č	00001044	<u></u>	398	284															
RTNAME	Č	00001033	8	396	278															
RTNUM	č	00001018	3	394	276															
0	Ŭ	00000000	1	945	119	170	173	193	195	196	197	202	221	222	249	250	289	290	293	
J	U	0000000	1	343	309	312	314	316	318	333	137	202	~~1	~~~	۵ŦJ	200	200	230	200	
1	U	0000001	1	946	203	229	230	259	260	291	323	337								
1 10	Ü	00000001 0000000A	1	940 955	203 158	167	168	~JJ	~UU	₩J1	JAJ	JJ /								
	U	0000000A 0000000B	1	956	226	227	527	515	562	501	500	617	625	652	674	609	714	729	750	
11	U	OUUUUUD	1	930				545	563	581	599	617	635	000	0/4	UYL	714	132	730	
1.0	TI	0000000	1	057	768	789 215	807	825	843	864	00%	900								
12	U	000000C	1	957	212	215	233	252												
13	U	000000D	1	958																
14	Ü	000000E	1	959	0.40	000	000	00~												
15	ñ	000000F	1	960	242	269	296	297	001	000	000	000	010	010	015	0.1.5	000	000	000	
2	U	0000002	1	947	204	272	273	280	281	289	292	293	310	312	318	319	320	322	328	
					333	334														
3	U	0000003	1	948																
4	U	0000004	1	949																
5	U	00000005	1	950	215	216	219	270	295	516	529	534	547	552	565	570		588	601	
					606	619	624	637	642	655	663	676	681	694	703	716		734	739	
					752	757	770	778	791	796	809	814	827	832	845	853		871	884	
					889	902														
•	U	0000006	1	951																
6																				

OTA BOT	PERSONAL PROPERTY.	***	es (Zvector	Delever	B) 2121-	DEN ~-	C				18 Jun 2	Ü	2
SYMBOL	TYPE	VALUE	LENGTH	DEFN		RENCE							
8	Ü	00000008	1	953	156	160	161		164				
9	Ü	00000009	1	954	157	164	165	167					
E1	F	000010F8	4	528	523								
E10	F	000012A8	4	693	688								
E11 E12	r F	000012D8 00001308	4	715 733	710 728								
E13	F	00001308	4	753 751	746								
E14	F	00001338	4	769	764								
E15	F	00001398	4	790	785								
E16	$ar{\mathbf{F}}$	000013C8	$ar{4}$	808	803								
E17	F	000013F8	4	826	821								
E18	F	00001428	4	844	839								
E19	F	00001458	4	865	860								
EE2	<u>F</u>	00001128	4	546	541								
E20	<u>F</u>	00001488	4	883	878								
E21	F	000014B8	4	901	896								
E3	F	00001158	4	564	559								
E4	F	00001188	4	582	577								
EE5 EE6	F F	000011B8 000011E8	4 4	600 618	595 613								
E7	F	000011E8	4	636	631								
E8	F	00001218	4	654	649								
E9	F	00001248	4	675	670								
EA1	Ā	000010EC	4	523	0.0								
EA10	Ā	0000129C	$\bar{4}$	688									
EA11	A	000012CC	4	710									
EA12	A	000012FC	4	728									
EA13	A	0000132C	4	746									
EA14	A	0000135C	4	764									
EA15	A	0000138C	4	785									
EA16	A	000013BC	4	803									
EA17	A	000013EC	4	821									
EA18 EA19	A.	0000141C 0000144C	4	839 860									
EA2	A A	0000144C 0000111C	4	541									
EA20	A	0000111C	4	878									
EA21	Ä	0000147C	4	896									
EA3	Ä	00001111C	$\overline{4}$	559									
EA4	A	0000117C	4	577									
EA5	A	000011AC	4	595									
EEA6	A	000011DC	4	613									
EA7	A	0000120C	4	631									
EA8	A	0000123C	4	649									
EA9	A	0000126C	4	670	000								
EADDR DECOLOW	A	00000014	4	430	229								
EG2LOW EG2PATT	U TT	OOOOOODD AABBCCDD	1 1	377 376									
ELEN	U A	00000010	1	429									
ELEN PTDWSAV	A D	0000010 000003B0	8	302	289	293							
PTERROR	Ī	00000310	4	269	242	200							
PTSAVE	F	00000342 000003A4	4	299	269	296							
PTSVR5	F	000003A8	4	300	270	295							
KL0001	U	0000005D	1	186	202								
KT0001	C	0000022A	26	183	186	203							
VOLDPSW	U	00000140	0	121									
1	A	000010D8	4	517	913								

SMA Ver MACRO		REFER]																1 18: 57		8-	
CHECK TTABLE RX	70	179 911		550	568	586	604	622	640	661	679	701	719	737	755	776	794	812	830	851	869
-		011	002				001	0.2.2	010	001	0.0	.01					.01	012	333	301	

