n ver. OC	OBJECT CODE	- 00- packzone ADDR1	ADDR2	(Zvector E6 VRI-f) 02 Jun 2024 15: 59: 28 Page STMI
,	ODJECT CODE	AUUAI	ADDIL	2 ************************************
				3 *
				4 * Zvector E6 instruction tests for VRI-f encoded: 5 *
				6 * E670 VPKZR - VECTOR PACK ZONED REGISTER
				7 * 8 * James Wekel June 2024 9 ************************************
				10 11 **********************************
				13 * basic instruction tests
				14 * 15 **********************************
				16 * This program tests proper functioning of the z/arch E6 VRI-f vector 17 * pack zoned register instruction. Exceptions are not tested. 18 *
				19 * PLEASE NOTE that the tests are very SIMPLE TESTS designed to catch 20 * obvious coding errors. None of the tests are thorough. They are 21 * NOT designed to test all aspects of any of the instructions.
				22 * 23 ********************************
				25 * *Testcase VECTOR E6 VPKZR: packed zoned register instruction 26 * *
				27 * * Zvector E6 tests for VRI-f encoded pack instructions:
				28 * * 29 * * E670 VPKZR - VECTOR PACK ZONED REGISTER VPKZR
				30 * *
				31 * * #
				32 * * # This tests only the basic function of the instruction. 33 * * # Exceptions are NOT tested.
				34 * * #
				35 * * 36 * mainsize 2
				37 * numcpu 1
				38 * sysclear 39 * archl vl z/Arch
				40 * 41 * loadcore "\$(testpath)/zvector-e6-06-VPKZR.core" 0x0
				42 *
				43 * diag8cmd enable # (needed for messages to Hercules console) 44 * runtest 2
				45 * diag8cmd disable # (reset back to default)
				46 * 47 * *Done 48 ************************************
				10
		0000000	00001007	CO TWEETST STADT O
000000		0000000 0000000	000019D7	50 ZVE6TST START 0 51 USING ZVE6TST, RO Low core addressability
			0000000	52
		00000140	0000000	53 SVOLDPSW EQU ZVE6TST+X' 140' z/Arch Supervisor call old PSW
00000		00000000	000001A0	55 ORG ZVE6TST+X' 1AO' z/Architecure RESTART PSW

MII VCI.	0. 7. 0 zvector- e6-0	o puenzone	ur 0815001	(2,00001 2	,		02 Jun 2024 15: 59: 28 Page
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
0001A0 0001A8	00000001 80000000 00000000 00000200			56 57	DC DC	X' 0000000180000000' AD(BEGIN)	
0001710	0000000 0000200			07	DC	AD (BLUIN)	
0001B0 0001D0	00020001 80000000	000001B0	000001D0	59 60	ORG DC	ZVE6TST+X' 1D0' X' 0002000180000000'	z/Architecure PROGRAM CHECK PSW
	00000000 0000DEAD			60 61	DC	AD(X' DEAD')	
0001E0		000001E0	00000200	63 64	ORG	ZVE6TST+X' 200'	Start of actual test program

		- oo- packzone	ur 0815001	(=:00001	10 (101 1)		02 Juli 2024 13. 33. 26 Tage
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				128 ***:	******	:*****	************
						s expected	
				140 ***	*********	***********	***********
		0000026E	0000001	141 CCM		*	
000026E	E310 0001 0082	OOOOOOO	00000001	142	XĞ	R1, R1	
0000274	E310 5008 0076		00000001	143	LB	R1, M5	M5 has CS bit
000027A	5410 82B0		000004B0	144	N	R1, =F' 1'	get CS (CC set) bit
	4780 8052		00000252	145	BZ	TESTREST	ignore if not set
				146 *			8
				147 * ex	xtract CC e	extracted PSW	
				148 *			
0000282	5810 8EE4		000010E4	149	L	R1, CCPSW	
0000286	8810 000C		000000C	150	SRL	R1, 12	
000028A	5410 82B4		000004B4	151	N	R1, =XL4'3'	
000028E	4210 8EEC		000010EC	152	STC	R1, CCFOUND	save cc
				153 *		A CIT	
					ILL IN MESS	AGE	
0000292	4990 5004		00000004	155 *	T 11	DO TNIIM	got toot number and convent
0000292	4820 5004 4E20 8ED1		00000004 000010D1	156 157	LH CVD	R2, TNUM R2, DECNUM	get test number and convert
0000290 000029A	D211 8EBB 8EA5	000010BB	000010D1	158	MVC	PRT3, EDIT	
000023A	DE11 8EBB 8ED1	000010BB	000010A3	158 159	ED ED	PRT3, DECNUM	
00002A6	D202 8E60 8EC8	00001060	000010E1	160	MVC	CCPRTNUM(3),	PRT3+13 fill in message with test #
00002:10	Dava Glob Glob	00001000	00001000	161	1111	cer armena (o),	TWIOTIO TITT IN MESSAGE WITH TESE II
00002AC	D207 8E7D 5014	0000107D	00000014	162	MVC	CCPRTNAME, OP	NAME fill in message with instruction
				163		, , , , , , , , , , , , , , , , , , , ,	
00002B2	B982 0022			164	XGR	R2, R2	get CC as U8
00002B6	4320 5009		00000009	165	IC	R2, CC	o .
00002BA	4E20 8ED1		000010D1	166	CVD	R2, DECNUM	and convert
00002BE	D211 8EBB 8EA5	000010BB	000010A5	167	MVC	PRT3, EDIT	
00002C4	DE11 8EBB 8ED1	000010BB	000010D1	168	ED	PRT3, DECNUM	
00002CA	D200 8E93 8ECA	00001093	000010CA	169	MVC	CCPRTEXP(1),	PRT3+15 fill in message with CC field
0.000000	D 000 0000			170	TIGE	DO DO	. CCTOVID . VO
00002D0			000010EG	171	XGR	R2, R2	get CCFOUND as U8
00002D4			000010EC	172	IC	R2, CCFOUND	,
00002D8	4E20 8ED1	00001000	000010D1	173	CVD	R2, DECNUM	and convert
00002DC	D211 8EBB 8EA5 DE11 8EBB 8ED1	000010BB	000010A5	174 175	MVC ED	PRT3, EDIT	
00002E2 00002E8	D200 8EA3 8ECA	000010BB 000010A3	000010D1 000010CA	175 176	MVC	PRT3, DECNUM CCPRTGOT(1),	PRT3+15 fill in message with ccfound
UUUULEO	D&UU OEAS OECA	OOOOTUAS	OUUUTUCA	176 177	IVIV	CCFRIGUI(I),	raistis 1111 ili message wich cciound
00002EE	4100 0055		00000055	178	LA	RO, CCPRTLNG	message length
00002EE			00000033	179	LA	R1, CCPRTLINE	message rength messagfe address
00002F2	45F0 8184		00001030	180	BAL	R15, RPTERROR	
O O O O WI U	1010 0101		3000004	181	Ditt	with the second	
					_	TATE COM	
00002FA	47F0 8166		00000366	182	В	FAI LCONT	

ASMA Ver.	0. 7. 0 zvector-	e6-06- packzoned	lregi ster	(Zvector E6 VR	(I - f)		02 Jun 2024 15: 59: 28 Page	6
LOC	OBJECT CODE	ADDR1	ADDR2	STMI				
				184 ******	****	******	***********	
				185 * result	not a	s expected:		
				186 *		e message with test	number, instruction under test	
				187 *		and instruction m		
		00000000	0000001	188 ******		*******	***********	
OOOOOSEE	4090 5004	000002FE	00000001	189 FAILMSG	EQU	* Do TNUM	get test number and convent	
	4820 5004 4E20 8ED1		00000004 000010D1	190 191	LH CVD	R2, TNUM R2, DECNUM	get test number and convert	
	D211 8EBB 8EA5	000010BB	000010D1	192	MVC	PRT3, EDIT		
	DE11 8EBB 8ED1		000010h3	193	ED	PRT3, DECNUM		
	D202 8E14 8EC8		000010C8	194	MVC	PRTNUM(3), PRT3+13	fill in message with test #	
				195			Ö	
00000318	D207 8E2F 5014	0000102F	0000014	196	MVC	PRTNAME, OPNAME	fill in message with instruction	
				197				
	B982 0022		0000000	198	XGR	R2, R2	get i4 as U8	
	4320 5007		00000007	199	I C	R2, I4	and convent	
	4E20 8ED1 D211 8EBB 8EA5	000010BB	000010D1 000010A5	200 201	CVD MVC	R2, DECNUM PRT3, EDIT	and convert	
	DE11 SEBB SED1		000010A3	202	ED ED	PRT3, DECNUM		
	D202 8E40 8EC8		000010D1	203	MVC	PRTI 4(3), PRT3+13	fill in message with i4 field	
0000000	DECE OF 10 OF CO.	00001010	00001000	204	1111	11111(0),1110110	IIII III message with II II era	
0000033C	B982 0022			205	XGR	R2, R2	get m5 as U8	
00000340	4320 5008		00000008	206	IC	R2 , M5	and convert	
	4E20 8ED1		000010D1	207	CVD	R2, DECNUM		
	D211 8EBB 8EA5	000010BB	000010A5	208	MVC	PRT3, EDIT		
	DE11 8EBB 8ED1		000010D1	209	ED	PRT3, DECNUM	C: 11 C: - 1 - 1	
00000354	D201 8E4D 8EC9	0000104D	000010C9	210 211	MVC	PRTM5(2), PRT3+14	fill in message with m5 field	
0000035A	4100 004C		000004C	212	LA	RO, PRTLNG	message length	
	4110 8E04		00001004	213	LA	R1, PRTLINE	messagfe address	
	45F0 8184		00000384	214	BAL	R15, RPTERROR		
				91G *****	****	******	**********	
						er a failed test		
				218 ******	****	*******	***********	
		00000366	0000001	219 FAILCONT		*		
	5800 82B0		000004B0	220	L	$\mathbf{R0}, = \mathbf{F'1'}$	set GLOBAL failed test indicator	
0000036A	5000 8E00		00001000	221	ST	RO, FAILED		
000000CE	41C0 C004		00000004	222	T A	D10 4(0 D10)	went took address	
0000036E 00000372			00000004 0000022A	223 224	LA B	R12, 4(0, R12) NEXTE6	next test address	
00000372	4/FU 0U2A		UUUUULLA	22 4	D	NEXIEO		

				227 * end of 228 ******	` testi	ng; set ending psw	, *************	
		00000376	0000001	229 ENDTEST	EQU	*		
	5810 8E00		00001000	230	L	R1, FAI LED	did a test fail?	
0000037A				231	LTR	R1, R1		
			00000488	232	BZ	EOJ	No, exit	
00000380	47F0 82A0		000004A0	233	В	FAI LTEST	Yes, exit with BAD PSW	
				234				

DC

CL95' '

The message text to be displayed

292 MSGMSG

293

00000413 40404040 40404040

ASMA Ver.	0.7.0 zvector-e6-0	6- packzone	dregister ((Zvector E6 V	RI - f)		02 Jun 2024 15: 59: 28 Page	9
LOC	OBJECT CODE	ADDR1	ADDR2	STM				

	00020001 80000000			299 E0JPSW			0180000000', AD(0)	
00000488	B2B2 8278		00000478	301 E0J	LPSWE	EOJPSW	Normal completion	
00000490	00020001 80000000			303 FAILPSW	DC	OD' O' , X' 000200	018000000', AD(X'BAD')	
000004A0	B2B2 8290		00000490	305 FAILTES	T LPSWE	FAILPSW	Abnormal termination	
				307 ****** 308 *	******* Worki : *****		**************************************	
				309				
000004A4 000004A8	00000000 00000000			311 CTLR0 312 313	DS DS	F F	CRO	
000004AC	00001988			314 E6TADR	DC	A(E6TESTS)	address of E6 test table	
000004B0 000004B0 000004B4	00000001 00000003			316 317 318	LTORG	, =F' 1' =XL4' 3'	Literals pool	
000004B8 000004BA	0000 005F			319 320 321		=H' 0' =AL2(L' MSGMSG)		
				322 * 323		constants		
		0000400 00001000 00010000 00100000	00000001 00000001 00000001	324 K 325 PAGE 326 K64 327 MB	EQU EQU EQU EQU	1024 (4*K) (64*K) (K*K)	One KB Size of one page 64 KB 1 MB	
		AABBCCDD 000000DD	00000001 00000001	328 329 REG2PAT 330 REG2LOW		X' AABBCCDD' X' DD'	Polluted Register pattern (last byte above)	

```
ASMA Ver. 0.7.0 zvector-e6-06-packzonedregister (Zvector E6 VRI-f)
                                                                                        02 Jun 2024 15: 59: 28 Page
                                                                                                                   10
 LOC
           OBJECT CODE
                           ADDR1
                                    ADDR2
                                            STM
                                             333 *
                                             334 * NOTE: start data on an address that is easy to display
                                             335 *
                                                        within Hercules
                                             336 *
                                             338
000004BC
                          000004BC 00001000
                                             339
                                                        ORG
                                                             ZVE6TST+X' 1000'
                                             340 FAILED
00001000 00000000
                                                        DC
                                                             F' 0'
                                                                                    some test failed?
                                             343 *
                                                        TEST failed: result messgae
                                             345 *
                                             346 *
                                                        failed message and associated editting
                                             347 *
00001004 40404040 40404040
                                             348 PRTLINE
                                                       DC
                                                                       Test # '
00001014 A7A7A7
                                             349 PRTNUM
                                                        DC
                                                             C' xxx'
00001017 40868189 93858440
                                                        DC
                                                             C' failed for instruction '
                                             350
0000102F A7A7A7A7 A7A7A7A7
                                             351 PRTNAME
                                                        DC
                                                             CL8' xxxxxxxxx'
                                                             C' with i4='
00001037
        40A689A3 884089F4
                                             352
                                                        DC
                                                             C' xxx'
        A7A7A7
                                             353 PRTI4
                                                        DC
00001040
                                                             C', '
C' with m5='
00001043 6B
                                             354
                                                        DC
                                                        DC
        40A689A3 884094F5
                                             355
00001044
                                             356 PRTM5
                                                        DC
                                                             C' xx'
0000104D
        A7A7
0000104F
       4B
                                             357
                                                        DC
                          0000004C 00000001
                                             358 PRTLNG
                                                        EQU
                                                             *-PRTLINE
                                             360 ************
                                                        TEST failed: CC message
                                             361 *
                                             362 **********
                                             363 *
                                             364 *
                                                        failed message and associated editting
                                             365 *
00001050 40404040 40404040
                                             366 CCPRTLINE DC
                                                                       Test # '
00001060
        A7A7A7
                                             367 CCPRTNUM DC
                                                              C' xxx'
00001063
        40A69996 95874083
                                             368
                                                              c' wrong cc for instruction '
                                                        DC
                                             369 CCPRTNAME DC
                                                              CL8' xxxxxxxxx'
0000107D A7A7A7A7 A7A7A7A7
00001085
        4085A797 8583A385
                                             370
                                                        DC
                                                              C' expected: cc='
                                             371 CCPRTEXP DC
00001093
        A7
                                                             C' x'
00001094 6B
                                             372
                                                        DC
00001095 40998583 8589A585
                                             373
                                                        DC
                                                              C' received: cc='
                                             374 CCPRTGOT DC
000010A3 A7
000010A4 4B
                                             375
                                                        DC
                          00000055 00000001
                                             376 CCPRTLNG
                                                              *- CCPRTLI NE
                                                        EQU
```

	0. 7. 0 zvector- e6	-	J		I - f)		02 Jun 2024 15: 59: 28 Page	
LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				433 ******* 434 * Ma			**************************************	
				435 *		o help build test		
				436 * VR 437 ******	I_F Ma *****	cro to help build ********	test tables	
				438	MACRO			
				439 440 . *	VKI_F	&I NST, &I 4, &M5, &CC	&INST - VRI-f instruction under test	
				441 . * 442 . *			&i4 - i4 field &m5 - m5 field	
				443 . *			&CC - expected CC	
				444 . * 445	I.C.I.A	&XCC(4) &CC has	mask values for FAILED condition codes	
				446 &XCC(1)	SETA	7	CC != 0	
				447 &XCC(2) 448 &XCC(3)	SETA SETA	11 13	CC != 1 CC != 2	
				449 &XCC(4)	SETA	14	CC != 3	
				450 451		&TNUM		
				452 &TNUM 453	SETA	&TNUM+1		
				454	DS	OFD		
				455 456	USING	*, R 5	base for test data and test routine	
				457 T&TNUM	DC	A(X&TNUM)	address of test routine	
				458 459	DC DC	H' &TNUM' X' 00'	test number	
				460 461	DC DC	HL1' &I 4' HL1' &M5'	i 4 m5	
				462	DC	HL1' &CC'	cc	
				463 464 V2_&TNUM	DC 1 DC	HL1' &XCC(&CC+1)' A(RE&TNUM+16)	cc failed mask address of v2: 16-byte zoned decimal	
				465 V3_&TNUM	I DC	A(RE&TNUM+32)	address of v3: 16-byte zoned decimal	
				466 467	DC DC	CL8' &I NST' A(16)	instruction name result length	
				468 REA&TNUM		A(RE&TNUM)	result address	
				469 . * 470 *			INSTRUCTION UNDER TEST ROUTINE	
				471 X&TNUM 472	DS L	OF R2, V2_&TNUM	get v2	
				473	VL	$V2, V2_aTNOW$ V2, O(R2)	get va	
				474 475	L	R2, V3_&TNUM	get v3	
				476	VL	V3, 0(R2)	8	
				477 478	&I NST	V1, V2, V3, &I 4, &M5	test instruction	
				479 480		V1, V10UTPUT		
				481	EPSW	R2, R0	save result exptract psw	
				482 483	ST BR	R2, CCPSW R11	to save CC return	
				484			I CCUI II	
				485 RE&TNUM 486	DC DROP	OF R5		
				487				
				488	MEND			

ASMA Ver.	0. 7. 0 zvector- e6- 0	6- packzone	dregi ster	(Zvector E6 VR	RI - f)		02 Jun 2024 1	5: 59: 28	Page	15
LOC	OBJECT CODE	ADDR1	ADDR2	STMT						
							*********	*****	***	
				514 * 515 ******	E6 VR	l_F tests ************	********	*****	****	
00001180		00000000	000019D7	516 ZVE6TST 517		,				
00001180				317	פע	UF				
				519	PRI NT	DATA				
				520 * 521 *	F670 '	VDK7D VECTOD D	ACK ZONED REGISTER			
				522 *			ACK ZONED REGISTER			
				523 * 524 *	VRI_F	instr, i 4, m5, cc followed by				
				525 *		v1 - 16 byte exp	ected result			
				526 * 527 *		vz - 16 byte zone v3 - 16 byte zone	ed decimal (operand) ed decimal (operand)			
				528 529 *			-			
						TOR PACK ZONED RE	GISTER			
				532 * VPKZR	simple	+ CC checks				
				533 * 534 *	_		i4=129(iom=1 & r i4=132(iom=1 & r			
				535 *			i4=135(iom=1 & r	dc=7)		
				536 * 537 *			i4=142(iom=1 & r i4=159(iom=1 & r			
00001180				538 539+	VRI_F DS	VPKZR, 159, 1, 2 OFD				
00001180	00004444	00001180		540 +	USING	*, R5	base for test data and te	st routin	e	
	000011A4 0001			541+T1 542+	DC DC	A(X1) H' 1'	address of test routine test number			
00001186 00001187				543+ 544+	DC DC	X' 00' HL1' 159'	i 4			
00001188	01			545 +	DC	HL1' 1'	m5			
	02 0D			546+ 547+	DC DC	HL1' 2' HL1' 13'	cc cc failed mask			
0000118C	000011E0			548+V2_1	DC	A(RE1+16)	address of v2: 16-byte zo	ned decim	al	
00001194	000011F0 E5D7D2E9 D9404040			549+V3_1 550+	DC DC	A(RE1+32) CL8' VPKZR'	address of v3: 16-byte zoinstruction name	nea aecim	a1	
	00000010 000011D0			551+ 552+REA1	DC DC	A(16) A(RE1)	result length result address			
	00001100			553+*			INSTRUCTION UNDER TEST RO	UTINE		
000011A4 000011A4	5820 500C		0000118C	554+X1 555+	DS L	0F R2, V2_1	get v2			
000011A8	E722 0000 0006		00000000 00001190	556+ 557+	VL	V2, O(R2)				
000011B2	5820 5010 E732 0000 0006		00001190	558 +	L VL	R2, V3_1 V3, O(R2)	get v3			
	E612 3019 F070 E710 8F00 000E		00001100	559+ 560+	VPKZR VST	V1, V2, V3, 159, 1 V1, V10UTPUT	test instruction save result			
000011C4	B98D 0020			561 +	EPSW	R2, R0	exptract psw			
000011CC	5020 8EE4 07FB		000010E4	562+ 563+	ST BR	R2, CCPSW R11	to save CC return			
000011D0 000011D0				564+RE1 565+	DC DROP	OF R5				
000011D0	00000000 00000000 0000000 0000022C			566	DC		000000000000000022C' V	1		

		-	C	(Zvector E	o vai i)		02 Jun 2024	13. 39. 20	Page	1
LOC	OBJECT CODE	ADDR1	ADDR2	STMI						
	FOFOFOFO FOFOFOFO FOFOFOFO			567	DC	XL16' F0F0F0F0F0F	OFOFOFOFOFOFOFOFO'	V2		
0011F0	FOFOFOFO FOFOFOFO			568	DC	XL16' F0F0F0F0F0F	OFOFOFOFOFOFOFOF2C2'	V3		
0011F8	F0F0F0F0 F0F0F2C2			569						
				570	VRI F	VPKZR, 159, 1, 2				
001200				571 +	DS _	OFD				
001200		00001200		572 +	USING	*, R 5	base for test data and	test routi	ne	
0001200	00001224			573+T2	DC	A(X2)	address of test routine			
0001204	0002			574 +	DC	H' 2'	test number			
0001206	00			575 +	DC	X' 00'				
0001207	9F			576 +	DC	HL1' 159'	i 4			
0001208	01			577+	DC	肚1'1'	m5			
0001209	02			578+	DC	HL1' 2'	cc			
000120A	OD			579+	DC	HL1' 13'	cc failed mask		,	
	00001260			580+V2_2	DC DC	A(RE2+16)	address of v2: 16-byte			
	00001270 E5D7D2E0 D0404040			581+V3_2	DC DC	A(RE2+32)	address of v3: 16-byte	zoned deci	mai	
	E5D7D2E9 D9404040			582+	DC DC	CL8' VPKZR'	instruction name			
	0000010			583+	DC DC	A(16)	result length			
0001220	00001250			584+REA2 585+*	DC	A(RE2)	result address INSTRUCTION UNDER TEST	DAIITT NE		
0001224				586+X2	DS	0F	INSTRUCTION UNDER IEST	RUUIINE		
0001224	5820 900C		0000120C	587+	L L	R2, V2_2	get v2			
	E722 0000 0006		00001200	588+	VL	V2, 0(R2)	get vz			
00122E	5820 9010		0000000	589+	Ľ	R2, V3_2	get v3			
	E732 0000 0006		00001210	590+	VL	V3, 0(R2)	get vo			
	E612 3019 F070		0000000	591+		V1, V2, V3, 159, 1	test instruction			
	E710 8F00 000E		00001100	592+	VST	V1, V2, V0, 100, 1 V1, V10UTPUT	save result			
0001244	B98D 0020		00001100	593 +		R2, R0	exptract psw			
0001248	5020 8EE4		000010E4	594+	ST	R2, CCPSW	to save CC			
000124C	07FB		00001011	595 +	BR	R11	return			
0001250				596+RE2	DC	OF				
0001250				597 +	DROP	R5				
	12300000 00000000			598	DC		0000000000000000122C'	V1		
0001258	00000000 0000122C									
0001260	F0F1F2F3 F0F0F0F0			599	DC	XL16' F0F1F2F3F0F	OFOFOFOFOFOFOFOFO'	V2		
0001268	FOFOFOFO FOFOFOFO									
0001270	FOFOFOFO FOFOFOFO			600	DC	XL16' F0F0F0F0F0F	OFOFOFOFOFOFOF1F2C2'	V3		
0001278	FOFOFOFO FOF1F2C2									
				601	:					
0004000				602		VPKZR, 159, 1, 1				
0001280		00001000		603+	DS	OFD	1 6			
0001280	00001014	00001280		604+	USING		base for test data and		ne	
	000012A4			605+T3	DC	A(X3)	address of test routine			
	0003			606+	DC DC	H' 3'	test number			
	00			607+ 608+	DC DC	X' 00'	; 4			
	9F 01			608+ 609+	DC DC	HL1' 159' HL1' 1'	i 4 m5			
	01			610+	DC DC	HL1' 1'				
0001289 000128A	0B			611+	DC DC	IL1 1 IL1' 11'	cc cc failed mask			
	000012E0			612+V2_3		A(RE3+16)	address of v2: 16-byte	zoned deci	mal	
	000012E0 000012F0			613+V3_3	DC DC	A(RE3+32)	address of v2. 10-byte address of v3: 16-byte	zoneu deci	mal	
	E5D7D2E9 D9404040			614+	DC DC	CL8' VPKZR'	instruction name	zoncu ucci	11271	
				615+	DC DC	A(16)	result length			
	00000010			() :)+						
000129C	00000010 000012D0			616+REA3		A(RE3)	result address			

VL

V3, O(R2)

VPKZR V1, V2, V3, 135, 1

V1, V10UTPUT

test instruction

save result

00001432

00001438

0000143E

E732 0000 0006

E612 3018 7070

E710 8F00 000E

0000000

00001100

718+

719+

720 +

DC

DC

DS

VL

A(16)

0F

A(RE9)

R2, V2 9

 $V2, O(\overline{R}2)$

R2, V3 9

result length

get v2

get v3

result address

INSTRUCTION UNDER TEST ROUTINE

817 +

819+* 820+X9

821+

822+

823+

0000158C

0000000

00001590

818+REA9

0000159C

000015A0

000015A4

000015A4

000015A8

000015AE

00000010

000015D0

5820 500C

5820 5010

E722 0000 0006

0F

DC

926+RE12

000018F8

F0F0F0F0 F0F1F293

DC

A(T12)

address of test

1079 +

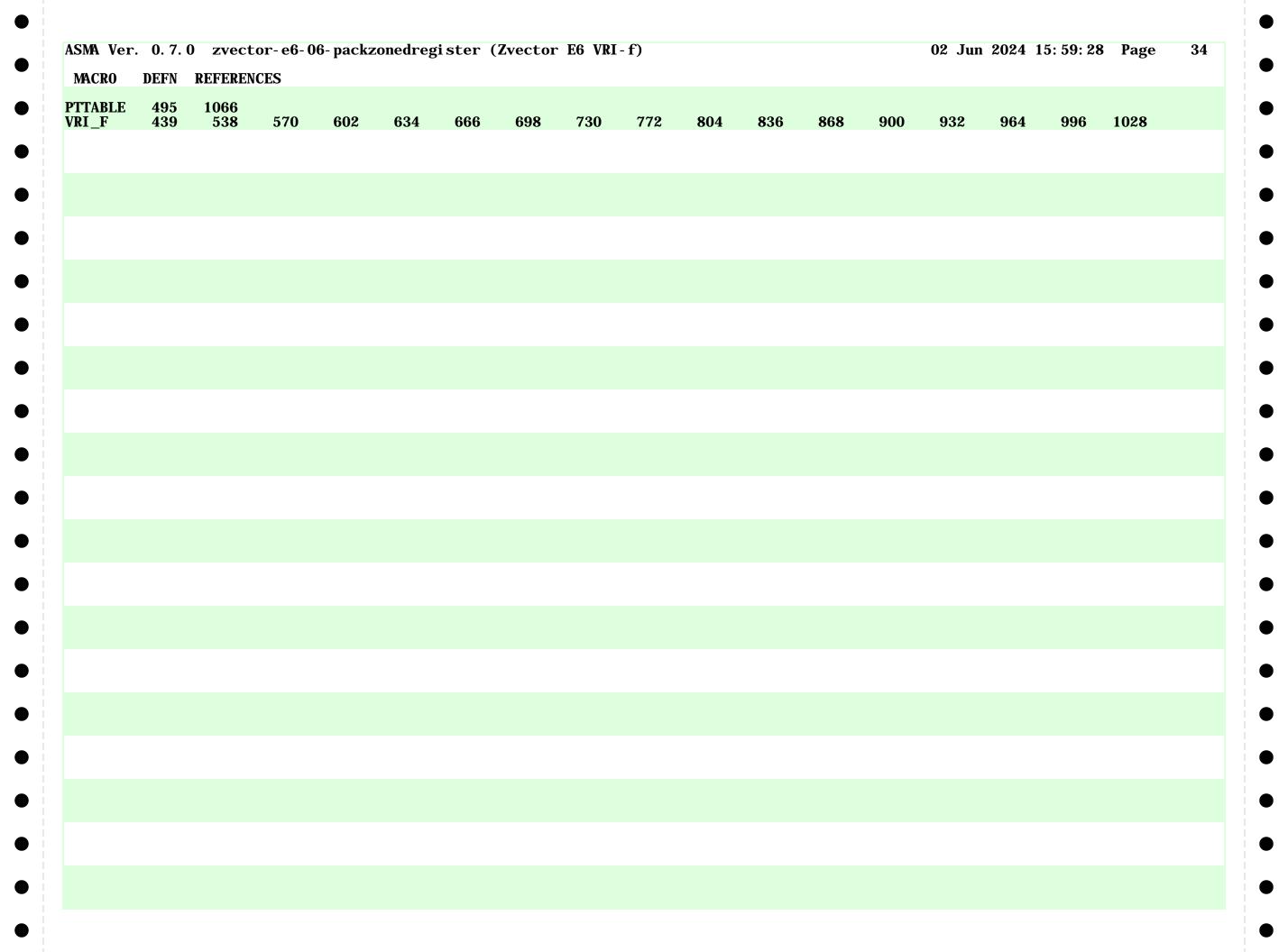
000019B4

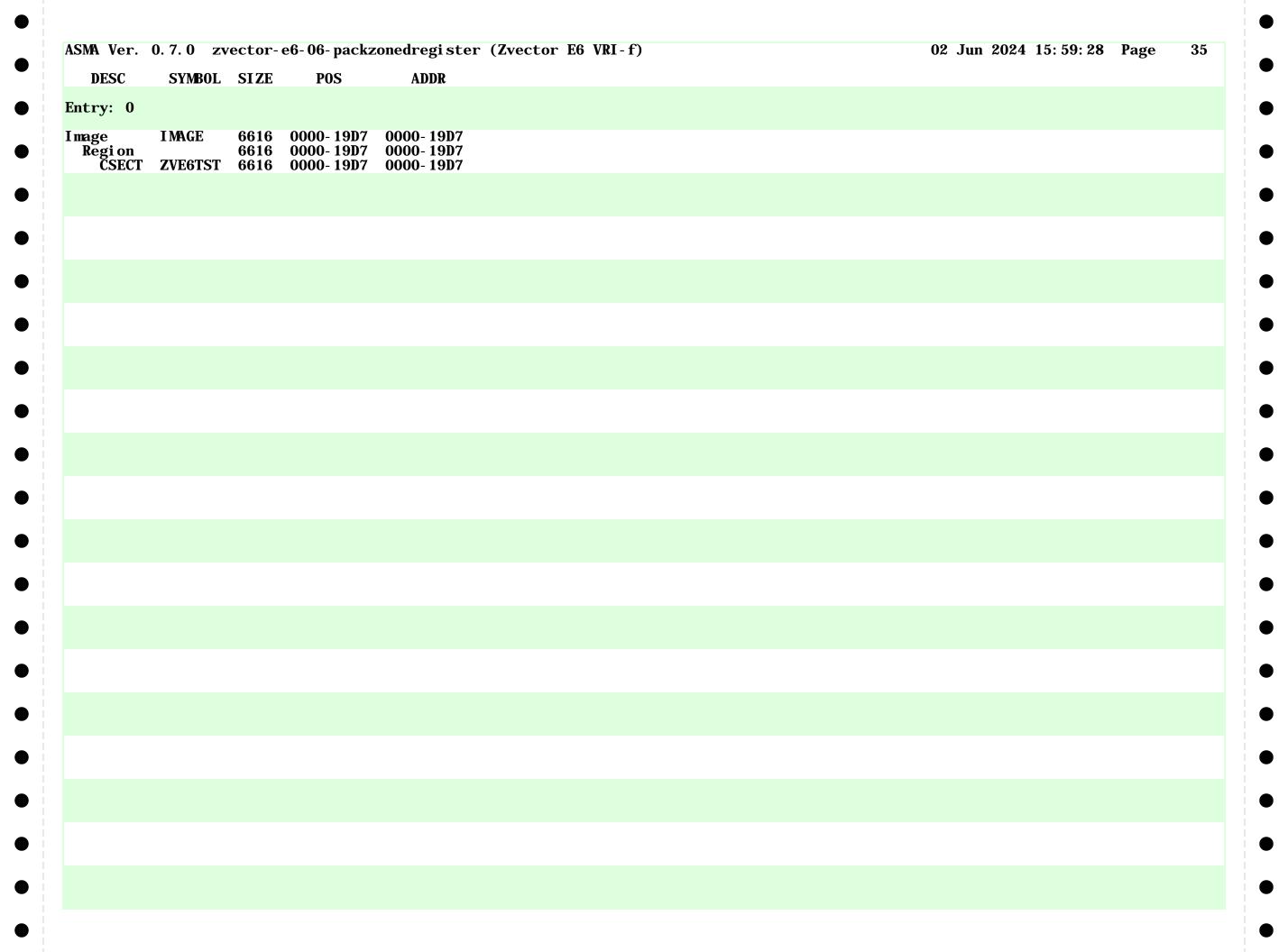
ASMA Ver.	0. 7. 0 zvector-e6-	- 06- packzone	dregi ster	(Zvector E6	VRI - f)	02 Jun 2024 15: 59: 28 Page	27
LOC	OBJECT CODE	ADDR1	ADDR2	STMI			
				1001 *****	******	****************	
				1092 *		ster equates	
				1093 *****		*******************	
		00000000	00000001	1095 R0	EQU	0	
		$\begin{array}{c} 00000001 \\ 00000002 \end{array}$	00000001 00000001	1096 R1 1097 R2	EQU EQU	1 2	
		0000003	0000001	1098 R3	EQU	3	
		$0000004 \\ 0000005$	00000001 00000001	1099 R4 1100 R5	EQU EQU	4 5	
		0000006	0000001	1101 R6	EQU	$\overset{ullet}{6}$	
		0000007 0000008	00000001 00000001	1102 R7 1103 R8	EQU FOU	7 8	
		0000009	0000001	1104 R9	EQU EQU	9	
		0000000A 0000000B	00000001 00000001	1105 R10 1106 R11	EQU EQU	10 11	
		000000C	0000001	1107 R12	EQU	12 13	
		000000D 000000E	00000001 00000001	1108 R13 1109 R14	EQU EQU	13 14	
		000000E	00000001	1109 R14 1110 R15	EQU	15	
					·		
				1112 *****	*****	***************	
				1113 *	Regis	ster equates ************************************	
				1114 *****			
		0000000	00000001	1110 NO	БОИ		
		0000000 0000001	00000001 00000001	1116 VO 1117 V1	EQU EQU	0 1	
		0000002	0000001	1118 V2	EQU	$\hat{\mathbf{z}}$	
		00000003 00000004	00000001 00000001	1119 V3 1120 V4	EQU EQU	3 4	
		0000005	0000001	1121 V5	EQU	5	
		0000006 0000007	00000001 00000001	1122 V6 1123 V7	EQU	6 7	
		0000008	0000001	1124 V8	EQU EQU	8	
		00000009	00000001	1125 V9	EQU	9	
		0000000A 0000000B	$00000001 \\ 00000001$	1126 V10 1127 V11	EQU EQU	10 11	
		000000C	0000001	1128 V12	EQU	12	
		000000D 000000E	00000001 00000001	1129 V13 1130 V14	EQU EQU	13 14	
		000000F	0000001	1131 V15	EQU	15	
		$00000010 \\ 00000011$	$00000001 \\ 00000001$	1132 V16 1133 V17	EQU EQU	16 17	
		0000012	0000001	1134 V18	EQU	18	
		$00000013 \\ 00000014$	00000001 00000001	1135 V19 1136 V20	EQU EQU	19 20	
		00000014	0000001	1130 V20 1137 V21	EQU	21	

				(Zvector E6	,		02 00	ın 2024 15: 59: 28	ruge	28
LOC	OBJECT CODE	ADDR1	ADDR2	STMT						
		00000016	00000001	1138 V22 1139 V23	EQU	22 23				
		0000018	00000001	1140 V24	EQU	24				
		00000019	0000001	1141 V25 1142 V26	EQU	25 26				
		0000001B	00000001	1143 V27	EQU EQU	27				
		000001C	00000001	1144 V28 1145 V29	EQU	28				
		000001E	00000001	1146 V30	EQU	22 23 24 25 26 27 28 29 30				
		000001F	0000001	1147 V31 1148	EQU	31				
				1149	END					

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERE	ENCES											
BEGI N	I	00000200	2	91	57	88	89										
CC	Ü	00000200	1	418	165	00	03										
CCFOUND	X	00000009 000010EC	1	391	152	172											
		000010EC	1	419		112											
CCMASK	U		1		124												
CCMSG	U	0000026E	1	141	136												
CCPRTEXP	C	00001093	1	371	169												
CCPRTGOT	C	000010A3	1	374	176	4 70											
CCPRTLINE	C	00001050	16	366	376	179											
CCPRTLNG	U	00000055	1	376	178												
CCPRTNAME	C	0000107D	8	369	162												
CCPRTNUM	<u>C</u>	00001060	3	367	160												
CCPSW	F	000010E4	4	390	149	562	594	626	658	690	722	754	796	828	860	892	924
					956	988	1020	1052									
CTLRO	F	000004A4	4	311	101	102	103	104									
DECNUM	C	000010D1	16	386	157	159	166	168	173	175	191	193	200	202	207	209	
E6TADR	A	000004AC	4	314	110												
E6TEST	4	0000000	36	412	119												
E6TESTS	F	00001988	4	1065	314												
EDIT	X	000010A5	18	381	158	167	174	192	201	208							
ENDTEST	Ū	00000376	1	229	115												
EOJ	Ť	00000488	4	301	232												
EOJPSW	Ď	00000478	8	299	301												
FAILCONT	Ŭ	00000476	1	219	182												
FAILED	F	00001000	4	340	221	230											
FAILMSG	Ü	00001000 000002FE	1	189	131	230											
FAILPSW	D	00000211	8	303	305												
	υ T		_														
FAILTEST	1 T1	000004A0	4	305	233												
14 MACE	U	00000007	0010	416	199												
MAGE	I I	00000000	6616	0	005	000	007										
(U	00000400	1	324	325	326	327										
164	U	00010000	1	326	4.40	000											
<u>/5</u>	U	00000008	1	417	143	206											
B	U	00100000	1	327													
/ISG	${f I}$	000003C0	4	265	248												
/ISGCMD	C	0000040A	9	291	278	279											
/SGMSG	C	00000413	95	292	272	289	270										
/ISGMVC	I	00000404	6	289	276												
/ISGOK	I	000003D6	2	274	271												
/SGRET	I	000003F0	4	285	282												
I SGSAVE	$ar{\mathbf{F}}$	000003F8	$ar{4}$	288	268	285											
EXTE6	Ū	0000022A	1	112	134	224											
PNAME	Č	00000014	8	424	162	196											
PAGE	Ŭ	00001014	1	325	10%	100											
PRT3	Č	00001000 000010BB	18	384	158	159	160	167	168	169	174	175	176	192	193	194	201
WIU		00001000	10	JUT	202	203	208	209	210	100	1/1	170	170	106	100	101	~U1
PRTI 4	C	00001040	3	353	202	~UJ	₩ U O	~ U∂	~10								
PRTLINE	C	00001040	16	348	203 358	213											
			10			۵13											
PRTLNG	U	0000004C	1	358	212												
PRTM5	C	0000104D	2	356	210												
PRTNAME	C	0000102F	8	351	196												
PRTNUM	C	00001014	3	349	194	404	404		450	040	000	001	0.4~	0.40	007	000	070
80	U	0000000	1	1095	51	101	104	117	178	212	220	221	247	249	265	268	270
					272	274	285	561	593	625	657	689	721	753	795	827	859
					891	923	955	987	1019	1051							
21	U	0000001	1	1096	124	125	126	129	130	142	143	144	149	150	151	152	179
					213	230	231	279	289								

SYMB0L	TYPE	VALUE	LENGTH	DEFN	REFERI	ENCES											
10 11	U U	0000000A 0000000B	1 1	1105 1106	98 121	99 122	563	595	627	659	691	723	755	797	829	861	893
11	U	ООООООО	1	1100	925	957	989	1021	1053	033	091	123	733	131	023	001	093
12	U	000000C	1	1107	110	113	133	223	1000								
13	U	000000D	1	1108													
14	U	000000E	1	1109													
15	U	000000F	1	1110	180	214	242	252	253	4 ~ 4	470	470	400	404	400	100	000
2	U	0000002	1	1097	156	157 206	164	165	166	171	172	173 268	190	191 275	198	199	200 285
					205 286	555	207 556	247 557	248 558	249 561	266 562	587	274 588	589	276 590	278 593	283 594
					619	620	621	622	625	626	651	652	653	654	657	658	683
					684	685	686	689	690	715	716	717	718	721	722	747	748
					749	750	753	754	789	790	791	792	795	796	821	822	823
					824	827	828	853	854	855	856	859	860	885	886	887	888
					891	892	917	918	919	920	923	924	949	950	951	952	955
					956 1045	981 1046	982 1047	983 1048	984 1051	987 1052	988	1013	1014	1015	1016	1019	1020
3	U	0000003	1	1098	1043	1040	1047	1040	1031	1032							
4	Ü	00000003	i	1099													
<u>.</u>	Ū	00000005	1	1100	113	114	119	243	251	540	565	572	597	604	629	636	661
					668	693	700	725	732	757	774	799	806	831	838	863	870
•			•	4404	895	902	927	934	959	966	991	998	1023	1030	1055		
6	U	00000006	1	1101													
7 8	U U	00000007 00000008	1	1102 1103	88	91	92	93	95								
9	Ü	00000008	1	1103	89	95	96	98 98	93								
E1	F	000011D0	4	564	548	549	552	00									
E10	$\bar{\mathbf{F}}$	00001650	4	862	846	847	850										
E11	F	000016D0	4	894	878	879	882										
E12	F	00001750	4	926	910	911	914										
E13	F	000017D0	4	958	942	943	946										
E14 E15	F F	00001850 000018D0	4	990 1022	974 1006	975 1007	978 1010										
E16	F	00001850	4	1054	1038	1007	1010										
E2	F	00001350	$\dot{4}$	596	580	581	584										
E3	F	000012D0	4	628	612	613	616										
E4	F	00001350	4	660	644	645	648										
E5	F	000013D0	4	692	676	677	680										
E6 E7	F E	00001450	4	724 756	708 740	709	712										
E / E8	r F	000014D0 00001550	4	756 798	740 782	741 783	744 786										
E9	F	00001530 000015D0	4	830	814	815	818										
EA1	Ā	000013D0	4	552	311	310	310										
EA10	A	00001620	4	850													
EA11	A	000016A0	4	882													
EA12	A	00001720	4	914													
EA13 EA14	A A	000017A0 00001820	4	946 978													
EA14 EA15	A A	00001820 000018A0	4	1010													
EA16	Ä	000010A0	4	1010													
EA2	Ā	00001220	4	584													
EA3	A	000012A0	4	616													
EA4	A	00001320	4	648													
EA5 EA6	A	000013A0	4	680													
HAR	A	00001420	4	712													





MA Ver. 0.7.0	zvector-e6-06-packzonedregister (Zvector E6 VRI-f)	02 Jun 2024 15: 59: 28 Page 36
STMT	FILE NAME	
/devstor/	/dev/tests/zvector-e6-06-VPKZR.asm	
NO ERRORS FO	NIND **	
NO ERRORS FO	JUND	