ASMA Ver.	0.7.0	zvector-e6-	07-VSRPR (	Zvector	<b>E6 VRI</b> - 1	f) 02 Jun 2024 15: 59: 33 Page 1
LOC	ОВЈЕ	CT CODE	ADDR1	ADDR2	STM	
					_	**************************************
					4	* Zvector E6 instruction tests for VRI-f encoded:
					5 6	* E672 VSRPR - VECTOR SHIFT AND ROUND DECIMAL REGISTER
					7 8 9	* James Wekel June 2024
					10 11 12	*******************
					13 14	* basic instruction tests *
					15 16 17 18	<ul> <li>* This program tests proper functioning of the z/arch E6 VRI-f vector</li> <li>* shift and round decimal register instruction.</li> <li>* Exceptions are not tested.</li> </ul>
					19 20 21 22	* PLEASE NOTE that the tests are very SIMPLE TESTS designed to catch * obvious coding errors. None of the tests are thorough. They are
					22 23 24	*
					25 26 27	* *Testcase zvector-e6-07-VSRPR: VECTOR E6 VSRPR instruction
					28 29	* * Zvector E6 tests for VRI-f encoded pack instructions:
					30 31	* * E672 VSRPR - VECTOR SHIFT AND ROUND DECIMAL REGISTER
					32 33 34 35	*
					36 37	* mainsize 2
					38 39	* sysclear
					40 41	*
					42 43 44	*
					45 46	* runtest 2
					47 48	*
					49	
0000000			0000000 0000000	000018C	53	ZVE6TST START 0 USING ZVE6TST, RO Low core addressability
			00000140	0000000	54 0 55	SVOLDPSW EQU ZVE6TST+X' 140' z/Arch Supervisor call old PSW

SMA Ver.	0. 7. 0 zvector- e6-	07-VSRPR (	Zvector E6	VRI - f)			02 Jun 2024 15: 59: 33 Page 2
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
	00000001 80000000	0000000	000001A0	57 58 59	ORG DC	ZVE6TST+X' 1A0' X' 0000000180000000'	z/Architecure RESTART PSW
00001A8	00000000 00000200			59	DC	AD(BEGIN)	
000001B0 000001D0 000001D8	00020001 80000000 00000000 0000DEAD	000001B0	000001D0	61 62 63	ORG DC DC	ZVE6TST+X' 1D0' X' 0002000180000000' AD(X' DEAD')	z/Architecure PROGRAM CHECK PSW
0000150		000001F0	00000000	0.5	O.D.C.	ZVEOTET VI OOOI	
00001E0		000001E0	00000200	65 66	ORG	ZVE6TST+X' 200'	Start of actual test program

LCTL RO, RO, CTLRO

Reload updated CRO

000004A4

106

00000222 B700 82A4

ASMA Ver.	0. 7. 0	zvector- e	6-07-VSRPR (	Zvector E6	VRI - f)			02 Jun 2024 15: 59: 33 Page 4
LOC	ОВЈЕ	CT CODE	ADDR1	ADDR2	STMI			
					108 ****** 109 *	*****	**************************************	**************************************
					110 ******	*****	******	**********
00000226	58C0 82	AC		000004AC	111 112 113	L	R12, E6TADR	get table of test addresses
0000022A	5850 CO	00	0000022A	00000001 00000000	113 114 NEXTE6 115	EQU L	* R5, 0(0, R12)	get test address
0000022E 00000230	1255 4780 81			00000376	116 117 118	LTR BZ	R5, R5 ENDTEST	have a test? done?
00000234 00000238	B982 00	00	0000000		119 120 121	XGR	RO, RO	no cc error
00000238 0000023E 00000242	E710 8F 58B0 50 05BB	20 0006 00	00000000	00001120 00000000	122 123 124	VL L BALR	E6TEST, R5 V1, V1FUDGE R11, TSUB R11, R11	get address of test routine do test
00000244 0000024A 0000024E	E310 50 8910 00 4410 80	04		0000000A 00000004 0000026A	125 126 127 128	LB SLL EX	R1, CCMASK R1, 4 R1, TESTCC	(failure CC mask) (shift to BC instr CC position) fail if
0000070	F040 F0	10 0014	00000252	00000001	129 130 TESTRES		*	
00000252 00000258 0000025E	E310 50 D50F 8F 4770 80	00 1000	00001100	0000001C 00000000 000002FE	131 132 133	LGF CLC BNE	R1, READDR V10UTPUT, O(R1) FAILMSG	get address of expected result valid? no, issue failed message
00000262 00000266	41C0 C0 47F0 80	04		00000004 0000022A	134 135 136	LA B	R12, 4(0, R12) NEXTE6	next test address
0000026A	4700 80	6E		0000026E	137 138 TESTCC	ВС	O, CCMSG	(fail if unexpected condition code)

	0. 7. 0	ZVE	C C C C C C	)/- VSRPR (	Zvector E6	VKI - I	,			02 Jun 2024 15: 59: 33 Page
LOC	OBJI	ECT C	ODE	ADDR1	ADDR2	STM				
						140	*****	*****	*****	**********
									s expected	
						141	*****	*****	s expecteu ******************	*********
				0000026E	0000001		CCMSG	EQU	*	
000026E	E310 00	001 0	082	00000£0E	00000001	144	CCMDu	XĞ	R1, R1	
0000274	E310 50				00000001	145		LB	R1, M5	M5 has CS bit
0000274	5410 82		070		00000000 000004B0	146		N	R1, =F' 1'	get CS (CC set) bit
000027E	4780 80				00000252	147		BZ	TESTREST	ignore if not set
0000212	1,00 0	002			00000202	148	*		ILBINESI	18hore II hoe see
								t CC e	xtracted PSW	
						150				
0000282	5810 81	E <b>E4</b>			000010E4	151		L	R1, CCPSW	
0000286	8810 00				000000C	152		SRL	R1, 12	
000028A	5410 82	2B4			000004B4	153		N	R1, =XL4'3'	
000028E	<b>4210 8</b> 1	EEC			000010EC	154		STC	R1, CCFOUND	save cc
						155	*			
						156	* FILL I	N MESS	AGE	
						157	*			
0000292	4820 50	004			0000004	158		LH	R2, TNUM	get test number and convert
0000296	4E20 81				000010D1	159		CVD	R2, DECNUM	
000029A	D211 81			000010BB	000010A5	160		MVC	PRT3, EDIT	
00002A0	DE11 81			000010BB	000010D1	161		ED	PRT3, DECNUM	
00002A6	D202 81	E60 8	EC8	00001060	000010C8	162		MVC	CCPRTNUM(3), PRT3+13	fill in message with test #
						163				
00002AC	D207 81	E7D 5	010	0000107D	0000010	164		MVC	CCPRTNAME, OPNAME	fill in message with instruction
0000000	<b>D</b> 000 04	000				165		WOD	Do Do	
00002B2	B982 00				0000000	166		XGR	R2, R2	get CC as U8
00002B6	4320 50				00000009	167		IC	R2, CC	1
00002BA	4E20 8		TAE	000010PB	000010D1	168		CVD	R2, DECNUM	and convert
00002BE	D211 8			000010BB	000010A5	169		MVC	PRT3, EDIT	
00002C4	DE11 81			000010BB	000010D1	170		ED	PRT3, DECNUM	fill in magage with CC field
00002CA	D200 81	ego o	ECA	00001093	000010CA	171 172		MVC	CCPRTEXP(1), PRT3+15	fill in message with CC field
00002D0	D065 00	199				172		XGR	R2, R2	get CCFOUND as U8
00002D4	4320 8				000010EC	173 174		I C	R2, CCFOUND	get ceround as us
00002D4	4520 81				000010EC	175		CVD	R2, DECNUM	and convert
00002DC	D211 8		FA5	000010BB	000010D1 000010A5	176		MVC	PRT3, EDIT	and Convert
00002BC 00002E2	DE11 8			000010BB	000010A3 000010D1	177		ED ED	PRT3, DECNUM	
00002E2	D200 81			000010BB	000010D1	178		MVC	CCPRTGOT(1), PRT3+15	fill in message with ccfound
JUU ALU	<i>D</i> ≈00 01	L. 10 0	LOIL	COUCIONS	JUUITUUA	179		1111	551 MIGOT (1), 1 MIO - 13	1111 In message with ceround
00002EE	4100 00	055			0000055	180		LA	RO, CCPRTLNG	message length
00002F2	4110 8				00001050	181		LA	R1, CCPRTLINE	messagfe address
00002F6	45F0 81				00001030	182		BAL	R15, RPTERROR	
5555×10	1010 0				2000001	183				
								D	EATI COME	
00002FA	47F0 8	166			00000366	184		В	FAI LCONT	

ASMA Ver.	0. 7. 0 zvecto	or-e6-07-VSRPR (	Zvector E6	VRI-f)			02 Jun 2024 15: 59: 33 Page	6
LOC	OBJECT COD	E ADDR1	ADDR2	STMT				
				186 ****	*****	******	**********	
					esult not a	s expected:		
				188 *		message with test	number, instruction under test	
				189 *		and instruction i	4, m5	
		000000	0000001	100	******	*******	***********	
000000EE	4000 5004	000002FE	00000001	191 FAII		* DO TAILIM		
000002FE 00000302	4820 5004 4E20 8ED1		00000004 000010D1	192 193	LH CVD	R2, TNUM R2, DECNUM	get test number and convert	
00000302	D211 8EBB 8EA	5 000010BB	000010D1	194	MVC	PRT3, EDIT		
0000030C	DE11 8EBB 8ED		000010D1	195	ED	PRT3, DECNUM		
00000312	D202 8E14 8EC		000010C8	196	MVC	PRTNUM(3), PRT3+13	fill in message with test #	
				197				
00000318	D207 8E2F 5010	0 0000102F	00000010	198	MVC	PRTNAME, OPNAME	fill in message with instruction	
0000001E	D000 0000			199	VCD	no no	wat ! A am IIO	
0000031E 00000322	B982 0022 4320 5007		0000007	200 201	XGR I C	R2, R2 R2, I4	get i4 as U8	
00000322	4520 5007 4E20 8ED1		0000007 000010D1	201	CVD	R2, DECNUM	and convert	
00000320 0000032A	D211 8EBB 8EA	5 000010BB	000010D1	203	MVC	PRT3, EDIT	and convert	
00000330	DE11 8EBB 8ED		000010h3	204	ED	PRT3, DECNUM		
00000336	D202 8E40 8EC		000010C8	205	MVC	PRTI 4(3), PRT3+13	fill in message with i4 field	
				206			<b>G</b>	
0000033C	B982 0022			207	XGR	R2, R2	get m5 as U8	
00000340	4320 5008		00000008	208	IC	R2, M5	and convert	
00000344	4E20 8ED1 D211 8EBB 8EA	C 000010DD	000010D1	209 210	CVD	R2, DECNUM		
00000348 0000034E	DE11 SEBB SED		000010A5 000010D1	211	MVC ED	PRT3, EDIT PRT3, DECNUM		
0000034E	D201 8E4D 8EC		000010D1	212	MVC	PRTM5(2), PRT3+14	fill in message with m5 field	
0000001	2201 0212 020	00001012	00001000	213	1,14	12012 (2), 1200 11	III III message with me II et a	
0000035A	4100 004C		000004C	214	LA	RO, PRTLNG	message length	
0000035E	4110 8E04		00001004	215	LA	R1, PRTLINE	messagfe address	
00000362	45F0 8184		00000384	216	BAL	R15, RPTERROR		
							***********	
				219 * cc	ontinue aft	er a failed test	**********	
		0000000	0000001	220 ****		*	· · · · · · · · · · · · · · · · · · ·	
00000366	5800 82B0	00000366	00000001 000004B0	221 FAII 222	LCONT EQU L	RO, =F' 1'	set GLOBAL failed test indicator	
0000036A	5000 8E00		00001000	223	ST	RO, FAILED	See aloual faffed test findfeator	
30000011	5000 OLO		00001000	224	~1			
	41C0 C004		0000004	225	LA	R12, 4(0, R12)	next test address	
00000372	47F0 802A		0000022A	226	В	NEXTE6		
							**********	
				229 * er 230 ****	nd of testi ******	ng; set ending psv *************	<i>*</i> ***********************************	
		00000376	0000001	231 ENDT		*		
00000376	5810 8E00		00001000	232	L	R1, FAILED	did a test fail?	
0000037A	1211			233	LTR	R1, R1		
0000037C			00000488	234	BZ	EOJ	No, exit	
00000380	47F0 82A0		000004A0	235	В	FAI LTEST	Yes, exit with BAD PSW	
				236				

ASMA Ver.	0. 7. 0 zvector- e6	- 07- VSRPR (	Zvector E6	VRI - f)			02 Jun 2024 15: 59: 33 Page 8
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				262 **	******	********	*********
				263 *	Issue	HERCULES MESSAGE poi	nted to by R1, length in R0
				<b>264</b> *		R2 = return address	v v
				265 ** 266	* * * * * * * * * * * * *	*********	*********
000003C0	4900 82B8		000004B8	267 M		RO, $=H'O'$	Do we even HAVE a message?
000003C4	07D2			268 269	BNHR	R2	No, ignore
000003C6	9002 81F8		000003F8	270 271	STM	RO, R2, MSGSAVE	Save registers
00003CA	4900 82BA		000004BA	272	СН	RO, = $AL2(L'MSGMSG)$	Message length within limits?
000003CE	47D0 81D6		000003D6	273	BNH	MSGOK	Yes, continue
000003D2	4100 005F		0000005F	274 275	LA	RO, L' MSGMSG	No, set to maximum
000003D6	1820			276 M	SGOK LR	R2, R0	Copy length to work register
000003D8	0620			277		R2, 0	Minus-1 for execute
000003DA	4420 8204		00000404	278	EX	R2, MSGMVC	Copy message to O/P buffer
000003DE	4120 200A		000000A	279 280	T A	D9 1.I!MCCCMD( D9)	Calculate two command langth
000003DE 000003E2	4120 200A 4110 820A		000000A 0000040A	281	LA LA	R2, 1+L' MSGCMD(, R2) R1, MSGCMD	Calculate true command length Point to true command
000003E2	4110 020A		0000040A	282	LA	RI, WOUCHD	TOTHE CO CIUE COmmand
000003E6	83120008			283	DC	X' 83' , X' 12' , X' 0008'	Issue Hercules Diagnose X'008'
000003EA			000003F0	284	BZ	MSGRET	Return if successful
000003EE	0000			285	DC	Н' О'	CRASH for debugging purposes
				286			
000003F0	9802 81F8		000003F8	287 M		RO, R2, MSGSAVE	Restore registers
000003F4	07F2			288	BR	R2	Return to caller
000003F8	00000000 00000000			290 M	SGSAVE DC	3F' 0'	Registers save area
00000404	D200 8213 1000	00000413	00000000	291 M		MSGMSG(0), O(R1)	Executed instruction
0000040A	D4E2C7D5 D6C8405C			293 M	SGCMD DC	C' MSGNOH * '	*** HERCULES MESSAGE COMMAND ***
00000413	40404040 40404040			294 M		CL95' '	The message text to be displayed
				295			g

ASMA Ver.	0. 7. 0 zvect	or- e6- 07- VSRPR (	(Zvector E6	VRI - f	)			02 Jun 2024 15: 59: 33 Page	e 9
LOC	OBJECT COD	E ADDR1	ADDR2	STMT					
				297 298 299	****** * ******	****** Normal *****	**************   <b>completion or</b> *******	**************************************	
00000478	00020001 8000	0000		301	<b>E0JPSW</b>	DC	0D' 0' , X' 000200	00180000000', AD(0)	
00000488	B2B2 8278		00000478	303	ЕОЈ	LPSWE	E0JPSW	Normal completion	
00000490	00020001 8000	0000		305	FAI LPSW	DC	OD' O' , X' 000200	018000000', AD(X'BAD')	
000004A0	B2B2 8290		00000490	307	FAI LTEST	LPSWE	FAILPSW	Abnormal termination	
				309 310 311	****** * *****	****** Worki r *****	**************************************	**************	*
000004A4 000004A8	00000000 00000000			313 314 315	CTLRO	DS DS	F F	CRO	
000004AC	00001870				E6TADR	DC	A(E6TESTS)	address of E6 test table	
000004B8	00000003 0000			318 319 320 321		LTORG	=F' 1' =XL4' 3' =H' 0'	Literals pool	
000004BA	005F			322 323 324	*	some o	=AL2(L' MSGMSG) constants		
		00000400	0000001	325 326	K	EQU	1024	One KB	
		00001000 00010000 00100000	00000001 00000001	327 328 329	PAGE K64	EQU EQU EQU	(4*K) (64*K) (K*K)	Size of one page 64 KB 1 MB	
		AABBCCDD 000000DD			REG2PATT REG2LOW		X' AABBCCDD' X' DD'	Polluted Register pattern (last byte above)	

ASMA Ver.	0. 7. 0 zvector- e6-	07-VSRPR (	Zvector E6	VRI-f)		02 Jun 2024 15: 59: 33 Page 15
LOC	OBJECT CODE	ADDR1	ADDR2	STMI		
				515 ******	*******	**********
				516 * 517 ******	E6 VRI_F tests **********************************	*********
		00000000	000018C3	<b>518 ZVE6TST</b>	CSECT ,	
00001180				519	DS OF	
				521	PRINT DATA	
				<b>522</b> *		
				523 * 524 *	E672 VSRPR - VECTOR S	HIFT AND ROUND DECIMAL REGISTER
				<b>525</b> *	VRI_F instr, shamt, i4, m	5, cc
				526 * 527 *	followed by v1 - 16 byte exp	ected result
				528 * 529	v2 - 16 byte zon	ed decimal (operand)
				530 *		
				531 * VSRPR 532 *	- VECTOR SHIFT AND ROU	ND DECIMAL REGISTER
				533 * VSRPR 534 *	simple + CC checks	i 4=129(i om=1, drd=0 & rdc=1)
				<b>535</b> *		i4=132(iom=1, drd=0 & rdc=4)
				536 * 537 *		i4=135(iom=1, drd=0 & rdc=7) i4=142(iom=1, drd=0 & rdc=14)
				<b>538</b> *		i 4=159(i om=1, drd=0 & rdc=31)
				539 540 *		i 4=193(i om=1, drd=1 & rdc=1)
				541 * 542 *		i4=196(iom=1, drd=1 & rdc=4) i4=199(iom=1, drd=1 & rdc=7)
				543 * 544 *		i 4=206(i om=1, drd=1 & rdc=14)
				<b>545</b>		i4=223(iom=1, drd=1 & rdc=31)
00001180				546 547+	VRI_F VSRPR, 0, 159, 1, 2 DS OFD	shamt=0
00001180	00001110	00001180		<b>548</b> +	USING *, R5	base for test data and test routine
00001180 00001184	000011A0 0001			549+T1 550+	DC A(X1) DC H' 1'	address of test routine test number
00001186 00001187	00 9F			551+ 552+	DC X' 00' DC HL1' 159'	i 4
00001188	01			<b>553</b> +	DC HL1'1'	шб
00001189 0000118A	02 0D			554+ 555+	DC HL1' 2' DC HL1' 13'	cc cc failed mask
0000118B 0000118C	00 000011D8			556+ 557+V2_1	DC HL1'0' DC A(RE1+16)	shift amount - signed char address of v2: 16-byte packed decimal
00001190	E5E2D9D7 D9404040			<b>558</b> +	DC CL8' VSRPR'	instruction name
00001198 0000119C	00000010 000011C8			559+ 560+REA1	DC A(16) DC A(RE1)	result length result address
000011A0				561+* 562+X1	DS OF	INSTRUCTION UNDER TEST ROUTINE
000011A0	5820 500C		0000118C	<b>563</b> +	L R2, V2_1	get v2
000011A4 000011AA	E722 0000 0006 E730 500B 7000		00000000 0000000B	564+ 565+	VL V2, O(R2) VLEB V3, SHAMT, 7	load shit amount into v3 byte 7
000011B0 000011B6	E612 3019 F072 E710 8F00 000E		00001100	566+ 567+	VSRPR V1, V2, V3, 159, 1 VST V1, V10UTPUT	test instruction save result
000011BC	B98D 0020			<b>568</b> +	EPSW R2, R0	exptract psw
000011C0	5020 8EE4		000010E4	<b>569</b> +	ST R2, CCPSW	to save CC

LOC	OBJECT CODE	ADDR1	ADDR2	STMT					
LUC	ODJECI CODE	ADDKI	ADDRZ	SIM					
00011C4	07FB			<b>570</b> +	BR	R11	return		
0011C8				571+RE1	DC	0F			
0011C8				572+	DROP	R5		¥14	
0011C8	00000000 00000000			573	DC	XL16' 0000000000000	0000000000000000022C'	V1	
0011D0	00000000 0000022C			P ~ 4	D.C.	WI 101 0000000000000	200000000000000000000000000000000000000	WO.	
0011D8 0011E0	00000000 00000000 00000000 0000022C			574	DC	XL16, 000000000000	00000000000000000022C'	V2	
				575 576	VDI E	VCDDD 1 150 1 9	showt_1 (loft)		
0011E8				577+	DS TE	VSRPR, 1, 159, 1, 2 OFD	shamt=1 (left)		
0011E8		000011E8		578+	USI NG		base for test data and	tost routino	
011E8	00001208	000011E0		579+T2	DC	A(X2)	address of test routine		
011E0	00001208			580+	DC	H' 2'	test number		
011EC	0002			581+	DC	X' 00'	test number		
011EE	9F			582+	DC	HL1' 159'	i 4		
011E1 0011F0	01			583+	DC	HL1' 1'	m5		
011F0 011F1	02			584+	DC	HL1' 2'	CC		
011F2	OD			585+	DC	HL1' 13'	cc failed mask		
011F3	01			<b>586</b> +	DC	HL1' 1'	shift amount - signed c	har	
011F4	00001240			587+V2_2	DC	A(RE2+16)	address of v2: 16-byte	nacked decim	al
011F8	E5E2D9D7 D9404040			588+	DC	CL8' VSRPR'	instruction name	pachea acerm	
01200	00000010			<b>589</b> +	DC	A(16)	result length		
01204	00001230			590+REA2	DC	A(RE2)	result address		
,01201	00001200			591+*	20	11(11211)	INSTRUCTION UNDER TEST	ROUTINE	
01208				592+X2	DS	<b>OF</b>			
001208	5820 500C		000011F4	593+	L	R2, V2_2	get v2		
00120C	E722 0000 0006		00000000	<b>594</b> +	VL	$V2, O(\overline{R}2)$	8		
001212	E730 500B 7000		0000000B	<b>595</b> +	VLEB	V3, SHAMT, 7	load shit amount into v	3 byte 7	
001218	E612 3019 F072			<b>596</b> +		V1, V2, V3, 159, 1	test instruction	J	
00121E	E710 8F00 000E		00001100	<b>597</b> +	VST	V1, V10UTPUT	save result		
01224	B98D 0020			<b>598</b> +	<b>EPSW</b>	R2, R0	exptract psw		
01228	5020 8EE4		000010E4	<b>599</b> +	ST	R2, CCPSW	to save CC		
0122C	07FB			600+	BR	R11	return		
01230				601+RE2	DC	<b>OF</b>			
001230				<b>602</b> +	DROP	<b>R5</b>			
01230	0000000 00000000			603	DC	XL16' 0000000000000	0000000000000000220C'	V1	
01238	00000000 0000220C								
001240	0000000 00000000			604	DC	XL16' 0000000000000	0000000000000000022C'	V2	
001248	00000000 0000022C								
				605	unt -	UCDDD ~ 450 4 0	1 . ~ /1 0:>		
01070				606		VSRPR, 7, 159, 1, 2	shamt=7 (left)		
01250		00001070		607+	DS	OFD * DE	hasa fan tast lete e	+aa++!	
01250	00001970	00001250		608+	USING		base for test data and		
001250	00001270			609+T3	DC	A(X3)	address of test routine		
01254	0003			610+	DC DC	H' 3'	test number		
001256	00 0F			611+ 612+	DC DC	X' 00'	; 4		
001257	9F			612+ 613+	DC	HL1' 159' HL1' 1'	i 4		
01258	01 02			614+	DC DC	HL1' 2'	m5		
)01259 )0125A	02 0D			614+ 615+	DC DC	HL1' 13'	cc cc failed mask		
00125A 00125B	07			616+		HL1' 13'		han	
)0125Б )0125С	07 000012A8			617+V2_3	DC DC	A(RE3+16)	shift amount - signed c address of v2: 16-byte	nai nackod docim	al
)0125C )01260	E5E2D9D7 D9404040			617+V2_3 618+	DC DC	CL8' VSRPR'	instruction name	packeu ueci lik	11
001268				619+	DC	A(16)	result length		
	000010			620+REA3	DC DC	A(RE3)	result address		
	VVVVIAJO			UWUTILLAU	DU	ALILLY!	I COUI C AUUI COO		

DC

673 +

HL1'1'

m5

00001328

									9
LOC	OBJECT CODE	ADDR1	ADDR2	STMT					
0001329	03			<b>674</b> +	DC	HL1'3'	cc		
00132A	<b>0E</b>			<b>675</b> +	DC	HL1' 14'	cc failed mask		
00132B	32			<b>676</b> +	DC	HL1' 50'	shift amount - signed cl address of v2: 16-byte	har	
00132C	00001378			677+V2_5	DC	A(RE5+16)	address of v2: 16-byte	packed decimal	
001330	E5E2D9D7 D9404040			<b>678</b> +	DC	CL8' VSRPR'	instruction name	•	
001338	0000010			<b>679</b> +	DC	A(16)	result length		
00133C	00001368			680+REA5	DC	A(RE5)	result address		
				<b>681</b> +*			INSTRUCTION UNDER TEST 1	ROUTINE	
001340				682+X5	DS	<b>OF</b>			
001340	5820 500C		0000132C	<b>683</b> +	L	R2, V2_5	get v2		
001344	E722 0000 0006		00000000	<b>684</b> +	$\mathbf{VL}$	V2, O(R2)			
00134A	E730 500B 7000		000000B	<b>685</b> +	VLEB	V3, SHAMГ, 7	load shit amount into va	3 byte 7	
001350	E612 3019 F072			<b>686</b> +	VSRPR	V1, V2, V3, 159, 1	test instruction	v	
001356	E710 8F00 000E		00001100	<b>687</b> +	VST	V1, V10UTPUT	save result		
00135C	B98D 0020			<b>688</b> +	<b>EPSW</b>	R2, R0	exptract psw		
001360	5020 8EE4		000010E4	<b>689</b> +	ST	R2, CCPSW	to save CC		
001364	O7FB			<b>690</b> +	BR	R11	return		
001368				691+RE5	DC	<b>OF</b>			
001368				692+	DROP	<b>R5</b>			
001368	0000000 00000000			693	DC	XL16' 0000000000000	00000000000000000C'	V1	
001370	0000000 000000C								
001378	0000000 00000000			694	DC	XL16' 0000000000000	000000000000000022D'	V2	
001380	00000000 0000022D								
				695					
				696		VSRPR, - 1, 159, 1, 2	shamt=-1 (right	t)	
001388				<b>697</b> +	DS	OFD			
001388		00001388		698+	USING		base for test data and	test routine	
001388	000013A8			699+T6	DC	A(X6)	address of test routine		
00138C	0006			700+	DC	H' 6'	test number		
00138E	00			701+	DC	X' 00'			
00138F	9F			702+	DC	HL1' 159'	i 4		
001390	01			703+	DC	<b>肚1' 1'</b>	m5		
001391	02			704+	DC	HL1'2'	cc		
001392				705+	DC	HL1' 13'	cc failed mask	i	
001393	FF			706+	DC	HL1' - 1'	shift amount - signed cl	har	
001394	000013E0			707+V2_6	DC	A(RE6+16)	address of v2: 16-byte	packed decimal	
001398	E5E2D9D7 D9404040			708+	DC	CL8' VSRPR'	instruction name		
0013A0	00000010			709+	DC	A(16)	result length		
0013A4	000013D0			710+REA6	DC	A(RE6)	result address	DATITE NE	
001040				711+*	DC	OE	INSTRUCTION UNDER TEST 1	KUUIINE	
0013A8	5090 500C		00001004	712+X6	DS	OF	mat xv9		
0013A8	5820 500C		00001394	713+	L	R2, V2_6	get v2		
0013AC	E722 0000 0006		00000000	714+	VL ED	V2, 0(R2)	lood objet amount int	0 hv.+ 0 7	
0013B2	E730 500B 7000		000000B	715+		V3, SHAMT, 7	load shit amount into v	b byte /	
0013B8	E612 3019 F072		00001100	716+		V1, V2, V3, 159, 1	test instruction		
0013BE	E710 8F00 000E		00001100	717+	VST	V1, V10UTPUT	save result		
0013C4	B98D 0020		00001054	718+		R2, R0	exptract psw		
0013C8	5020 8EE4		000010E4	719+	ST	R2, CCPSW	to save CC		
0013CC	07FB			720+ 721+RE6	BR DC	R11 OF	return		
1012NA						R5			
				722+ 723	DROP DC		00000000000000000002C'	V1	
0013D0	000000000000000000000000000000000000				p ==		いいいれいれいいいいいいいいいいいりとし	v I	
0013D0 0013D0	00000000 00000000			123	DC	ALIO OOOOOOOOO		V -	
0013D0 0013D0 0013D0 0013D8	0000000 0000002C								
0013D0 0013D0				723 724	DC DC		0000000000000000022C'	V2	

ISWA VCI.	o. 7. o Zvector - eo	or vom k	Zvector Lo	VICE I)			02 Jun 2024 10.00.00 Tage
LOC	OBJECT CODE	ADDR1	ADDR2	STM			
				726	VRI F	VSRPR, - 1, 223, 1, 2	shamt=-1 (right) drd=1
00013F0				727+	DS	OFD	- (1-8-10) 414 -
00013F0		000013F0		728+	USING		base for test data and test routine
0013F0	00001410	00001010		729+T7	DC	A(X7)	address of test routine
0013F4	0007			730+	DC	H' 7'	test number
0013F6	00			731+	DC	X' 00'	test number
0013F0	DF			731+ 732+	DC	HL1' 223'	i 4
0013F7				732+ 733+			
	01				DC	HL1' 1'	m5
0013F9	02			73 <b>4</b> +	DC	HL1' 2'	CC
0013FA	OD			735+	DC	HL1' 13'	cc failed mask
0013FB	FF			736+	DC	<b>LL1'-1'</b>	shift amount - signed char
0013FC	00001448			737+V2_7	DC	A(RE7+16)	address of v2: 16-byte packed decimal
001400	E5E2D9D7 D9404040			738+	DC	CL8' VSRPR'	instruction name
001408	0000010			739+	DC	A(16)	result length
00140C	00001438			740+REA7	DC	A(RE7)	result address
				741+*			INSTRUCTION UNDER TEST ROUTINE
001410				742+X7	DS	<b>OF</b>	
001410	5820 500C		000013FC	743+	L	R2, V2_7	get v2
001414	E722 0000 0006		00000000	744+	$\mathbf{VL}$	$V2, O(\overline{R}2)$	
00141A	E730 500B 7000		0000000B	745+	VLER	V3, SHAMT, 7	load shit amount into v3 byte 7
001420	E612 301D F072		OOOOOOD	746+	VSRPR	V1, V2, V3, 223, 1	test instruction
001426	E710 8F00 000E		00001100	747+	VST	V1, V2, V3, 223, 1 V1, V10UTPUT	save result
001420 00142C	B98D 0020		00001100	747+ 748+		R2, R0	exptract psw
	5020 8EE4		000010E4	749+	ST		
001430			000010E4			R2, CCPSW	to save CC
001434	07FB			750+	BR	R11	return
001438				751+RE7	DC	0F	
001438				<b>752</b> +	DROP	R5	
0001438	00000000 00000000			<b>753</b>	DC	XL16, 00000000000000	000000000000000003C' V1
0001440	00000000 0000003C						
0001448	0000000 00000000			754	DC	XL16' 0000000000000	000000000000000028C' V2
001450	00000000 0000028C						
				755	WDT T	VCDDD 4 000 4 4	1 4 4 ( 1 1 1 1 1 1 4
				<b>756</b>		VSRPR, - 1, 223, 1, 1	shamt=-1 (right) drd=1
001458				757+	DS	OFD	
001458		00001458		<b>758</b> +	USING		base for test data and test routine
001458	00001478			759+T8	DC	A(X8)	address of test routine
00145C	0008			<b>760</b> +	DC	Н' 8'	test number
00145E	00			<b>761</b> +	DC	X' 00'	
00145F	DF			762+	DC	HL1' 223'	i 4
001460	01			<b>763</b> +	DC	HL1' 1'	m5
001461	01			<b>764</b> +	DC	HL1' 1'	cc
001462	OB			765+	DC	HL1' 11'	cc failed mask
001462	FF			766+	DC	HL1' - 1'	shift amount - signed char
001463	000014B0			767+V2_8	DC	A(RE8+16)	address of v2: 16-byte packed decimal
				767+V2_8 768+		CL8' VSRPR'	
001468	E5E2D9D7 D9404040				DC DC		instruction name
001470	0000010			769+	DC	A(16)	result length
001474	000014A0			770+REA8	DC	A(RE8)	result address
004455				771+*	<b>.</b> ~	-	INSTRUCTION UNDER TEST ROUTINE
001478				772+X8	DS	<b>OF</b>	
001478	5820 500C		00001464	773+	L	R2, V2_8	get v2
00147C	E722 0000 0006		00000000	774+	VL	$V2, O(\overline{R}2)$	
001482	E730 500B 7000		000000B	<b>775</b> +		V3, SHAMT, 7	load shit amount into v3 byte 7
001488	E612 301D F072			<b>776</b> +		V1, V2, V3, 223, 1	test instruction
00148E	E710 8F00 000E		00001100	777+	VST	V1, V10UTPUT	save result
001494	B98D 0020		30001100	778+		R2, R0	exptract psw
001494	5020 8EE4		000010E4	779+	ST	R2, CCPSW	to save CC
001400	JULU OLL'I		JUUUIUL4	115	51	II. COL DW	CO Save Co

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LOC	OBJECT	CODE	ADDR1	ADDR2	STMI					
00149C	07FB				<b>780</b> +	BR	R11	return		
0014A0					781+RE8	DC	<b>OF</b>			
0014A0					782+	DROP	R5			
0014A0	00000000				<b>783</b>	DC	XL16' 00000000000000	000000000000000003D'	V1	
0014A8	00000000				704	D.C.	VI 101 00000000000000	I TORONO CON CONTRACTOR OF THE	WO	
0014B0 0014B8	00000000				784	DC	XL16, 00000000000000	000000000000000028D'	V2	
					785 786	VDI E	VSRPR, - 5, 223, 1, 0	shamt=-1 (righ	t) drd-1	
0014C0					787+	DS T	0FD	Shame1 (11gh	t) uru-r	
014C0 0014C0			000014C0		787+ 788+	USI NG		base for test data and	test routin	Δ
0014C0	000014E0		00001400		789+T9	DC	A(X9)	address of test routine		
014C4	00001420				790+	DC	H' 9'	test number		
0014C6	00				791+	DC	X' 00'	cese manager		
0014C7	DF				792+	DC	HL1' 223'	i 4		
0014C8	01				793+	DC	HL1' 1'	mб		
0014C9	00				794+	DC	HL1' 0'	cc		
0014CA	07				795+	DC	HL1' 7'	cc failed mask		
0014CB	FB				796+	DC	HL1' - 5'	shift amount - signed c	har	
0014CC	00001518				797+V2_9	DC	A(RE9+16)	address of v2: 16-byte	packed deci	mal
0014D0	E5E2D9D7 1	09404040			<b>798</b> +	DC	CL8' VSRPR'	instruction name		
0014D8	00000010				<b>799</b> +	DC	A(16)	result length		
0014DC	00001508				800+REA9	DC	A(RE9)	result address		
					801+*			INSTRUCTION UNDER TEST	ROUTINE	
0014E0					802+X9	DS	<b>OF</b>			
0014E0	5820 500C			000014CC	803+	L	R2, V2_9	get v2		
0014E4	E722 0000			00000000	804+	VL	V2, O(R2)			
0014EA	E730 500B			000000B	805+	VLEB	V3, SHAMT, 7	load shit amount into v	3 byte 7	
0014F0	E612 301D			00001100	806+		V1, V2, V3, 223, 1	test instruction		
0014F6	E710 8F00	000E		00001100	807+	VST	V1, V10UTPUT	save result		
0014FC	B98D 0020			000010E4	808+		R2, R0	exptract psw		
001500	5020 8EE4			000010E4	809+	ST	R2, CCPSW	to save CC		
001504	07FB				810+	BR	R11	return		
001508					811+RE9	DC DDOD	OF			
001508	0000000	2000000			812+	DROP	R5	000000000000000000000000000000000000000	V1 (notes	C)
01508	00000000				813	DC	XL16 0000000000000	000000000000000000C'	V1 (note:	L)
)01510 )01518	00000000 (				814	DC	VI 16! 000000000000	000000000000000028D'	V2	
	00000000				014	DC	XL10 00000000000000000000000000000000000	J000000000000000028D	٧L	
01320		оооосор			815					
					816	VRT F	VSRPR, - 31, 223, 1, 1	shamt=-1 (rig	ht) drd=1	
001528					817+	DS DS	0FD	Simil 1 (118)	, uiu-i	
01528			00001528		818+	USI NG		base for test data and	test routin	e
01528	00001548				819+T10		A(X10)	address of test routine		
00152C	000A				820+	DC	H' 10'	test number		
00152E	00				821+	DC	X' 00'			
00152F	DF				822+	DC	HL1' 223'	i 4		
001530	01				823+	DC	HL1' 1'	m5		
001531	01				824+	DC	HL1' 1'	cc		
001532	OB				825+	DC	HL1' 11'	cc failed mask		
001533	E1				826+	DC	HL1' - 31'	shift amount - signed c	har	_
001534	00001580				827+V2_10	DC	A(RE10+16)	address of v2: 16-byte	packed decia	mal
W11590	E5E2D9D7 1	D9404040			828+	DC	CL8' VSRPR'	instruction name		
001538	00000010									
001540	00000010 00001570				829+ 830+REA10	DC DC	A(16) A(RE10)	result length result address		

ASWA ver.	0. 7. 0 zvector- e6-	U/-VSRPR (	Zvector Eb	VRI-T)			02 Jun 2024 15: 59: 33 Page 22
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
000015F8		000015F8		884+	USING		base for test data and test routine
000015F8	00001618			885+T12	DC	A(X12)	address of test routine
000015FC 000015FE	000C 00			886+ 887+	DC DC	H' 12' X' 00'	test number
000015FF	DF			888+	DC	HL1' 223'	i 4
00001600	03			889+	DC	HL1' 3'	шб
00001601	02			890+	DC	HL1'2'	cc
00001602	OD			891+	DC	HL1' 13'	cc failed mask
$00001603 \\ 00001604$	FF 00001650			892+ 893+V2_12	DC DC	HL1' - 1' A(RE12+16)	shift amount - signed char address of v2: 16-byte packed decimal
00001604	E5E2D9D7 D9404040			894+	DC	CL8' VSRPR'	instruction name
00001610	00000010			895+	DC	A(16)	result length
00001614	00001640			896+REA12	DC	A(RE12)	result address
00001010				897+*	DC	OE	INSTRUCTION UNDER TEST ROUTINE
$00001618 \\ 00001618$	5820 500C		00001604	898+X12 899+	DS L	OF R2, V2_12	get v2
0000161C	E722 0000 0006		00000000	900+	ΫL	V2, 0(R2)	get va
00001622	E730 500B 7000		0000000B	901+	VLEB	V3, SHAMT, 7	load shit amount into v3 byte 7
00001628	E612 303D F072			902+	VSRPR	V1, V2, V3, 223, 3	test instruction
0000162E	E710 8F00 000E		00001100	903+	VST	V1, V10UTPUT	save result
00001634 00001638	B98D 0020 5020 8EE4		000010E4	904+ 905+	EPSW ST	R2, R0 R2, CCPSW	exptract psw to save CC
0000163C	07FB		00001014	906+	BR	R11	return
00001640	J			907+RE12	DC	<b>OF</b>	
00001640				908+	DROP	R5	
00001640 00001648	00000000 00000000 0000000 0000003F			909	DC	XL16' 0000000000000	00000000000000003F' V1
00001648	0000000 0000031			910	DC	XL16' 000000000000	000000000000000028D' V2
00001658	00000000 0000028D						
				911 912	VRI F	VSRPR, - 1, 223, 9, 2	shamt=-1 (right) drd=1 p2=1 p1=0
00001660				913+	DS	OFD	211dine 1 (11gire) uru 1 pa 1 pi 0
00001660		00001660		914+	USING		base for test data and test routine
00001660	00001680			915+T13	DC	A(X13)	address of test routine
00001664 00001666	000D 00			916+ 917+	DC DC	H' 13' X' 00'	test number
00001667	DF			918+	DC	HL1' 223'	i 4
00001668	09			919+	DC	HL1' 9'	шб
00001669	02			920+	DC	HL1' 2'	cc
0000166A	OD FF			921+ 922+	DC DC	HL1' 13' HL1' - 1'	cc failed mask
0000166B 0000166C	000016B8			922+ 923+V2_13	DC DC	A(RE13+16)	shift amount - signed char address of v2: 16-byte packed decimal
00001670	E5E2D9D7 D9404040			924+	DC	CL8' VSRPR'	instruction name
00001678	0000010			925+	DC	A(16)	result length
0000167C	000016A8			926+REA13	DC	A(RE13)	result address
00001680				927+* 928+X13	DS	<b>OF</b>	INSTRUCTION UNDER TEST ROUTINE
00001680	5820 500C		0000166C	929+	L	R2, V2_13	get v2
00001684	E722 0000 0006		00000000	930+	VL	$V2, O(\overline{R}2)$	O
0000168A	E730 500B 7000		000000B	931+	<b>VLEB</b>	V3, SHAMT, 7	load shit amount into v3 byte 7
00001690	E612 309D F072		00001100	932+		V1, V2, V3, 223, 9	test instruction
00001696 0000169C	E710 8F00 000E B98D 0020		00001100	933+ 934+	VST EPSW	V1, V10UTPUT R2, R0	save result exptract psw
0000103C	5020 8EE4		000010E4	935+	ST	R2, CCPSW	to save CC
000016A4	07FB			936+	BR	R11	return
000016A8				937+RE13	DC	<b>OF</b>	

ASMA Ver.	0. 7. 0 zvector- e6-	07-VSRPR (	Zvector E6	VRI-f)			02 Jun 2024	15: 59: 33	Page	23
LOC	OBJECT CODE	ADDR1	ADDR2	STMT						
000016A8 000016A8 000016B0	00000000 00000000 00000000 0000003C			938+ 939	DROP DC	R5 XL16' 00000000000000	000000000000000000000C'	V1		
000016B8 000016C0	0000000 000003C 00000000 00000000 00000000 0000028D			940	DC	XL16' 0000000000000	000000000000000028D'	V2		
000016C8				941 942 943+	DS	VSRPR, -1, 223, 11, 2 OFD	_			
000016C8 000016C8 000016CC	000016E8 000E	000016C8		944+ 945+T14 946+	USI NG DC DC	A(X14) H' 14'	base for test data and address of test routine test number		ıe	
000016CE 000016CF 000016D0	00 DF 0B			947+ 948+ 949+	DC DC DC	X' 00' HL1' 223' HL1' 11'	i 4 m5			
000016D1 000016D2 000016D3	02 0D FF			950+ 951+ 952+	DC DC DC	HL1' 2' HL1' 13' HL1' - 1'	cc cc failed mask shift amount - signed c	har		
000016D4 000016D8 000016E0	00001720 E5E2D9D7 D9404040 00000010			953+V2_14 954+ 955+	DC DC DC	A(RE14+16) CL8' VSRPR' A(16)	address of v2: 16-byte instruction name result length	packed deci	mal	
000016E4 000016E8	00001710			956+REA14 957+* 958+X14	DC DS	A(RE14)  OF	result address INSTRUCTION UNDER TEST	ROUTINE		
000016E8 000016EC 000016F2	5820 500C E722 0000 0006 E730 500B 7000		000016D4 00000000 0000000B	959+ 960+ 961+	L VL	R2, V2_14 V2, O(R2) V3, SHAMT, 7	get v2 load shit amount into v	3 hvte 7		
000016F8 000016FE 00001704	E612 30BD F072 E710 8F00 000E B98D 0020		00001100	962+ 963+ 964+	VSRPR VST	V1, V2, V3, 223, 11 V1, V10UTPUT R2, R0	test instruction save result exptract psw			
00001708 0000170C 00001710	5020 8EE4 07FB		000010E4	965+ 966+ 967+RE14	ST BR DC	R2, CCPSW R11 OF	to save CC return			
00001710 00001710 00001718	0000000 0000000 0000000 000003F			968+ 969	DROP DC	R5 XL16' 00000000000000	00000000000000003F'	V1		
00001720 00001728	00000000 00000000 00000000 0000028D			970 971	DC	XL16' 0000000000000	000000000000000028D'	V2		
00001730 00001730		00001730		972 973+ 974+	VRI_F DS USING	VSRPR, 0, 159, 3, 2 OFD * R5	shamt=0 base for test data and	p2=0 p1=		
00001730 00001730 00001734 00001736	00001750 000F 00	33301730		975+T15 976+ 977+	DC DC DC	A(X15) H' 15' X' 00'	address of test routine test number			
00001737 00001738 00001739	9F 03 02			978+ 979+ 980+	DC DC DC	HL1' 159' HL1' 3' HL1' 2'	i 4 m5 cc			
0000173A 0000173B 0000173C	0D 00 00001788			981+ 982+ 983+V2_15	DC DC DC	HL1' 13' HL1' 0' A(RE15+16)	cc failed mask shift amount - signed c address of v2: 16-byte	har packed deci	mal	
00001740 00001748 0000174C	E5E2D9D7 D9404040 00000010 00001778			984+ 985+ 986+REA15	DC DC DC	CL8' VSRPR' A(16) A(RE15)	instruction name result length result address	•		
00001750	5820 500C		0000173C	987+* 988+X15 989+	DS L	0F R2, V2_15	INSTRUCTION UNDER TEST get v2	ROUTINE		
							_			

DC

1041 +

0000180A

OD

HL1' 13'

cc failed mask

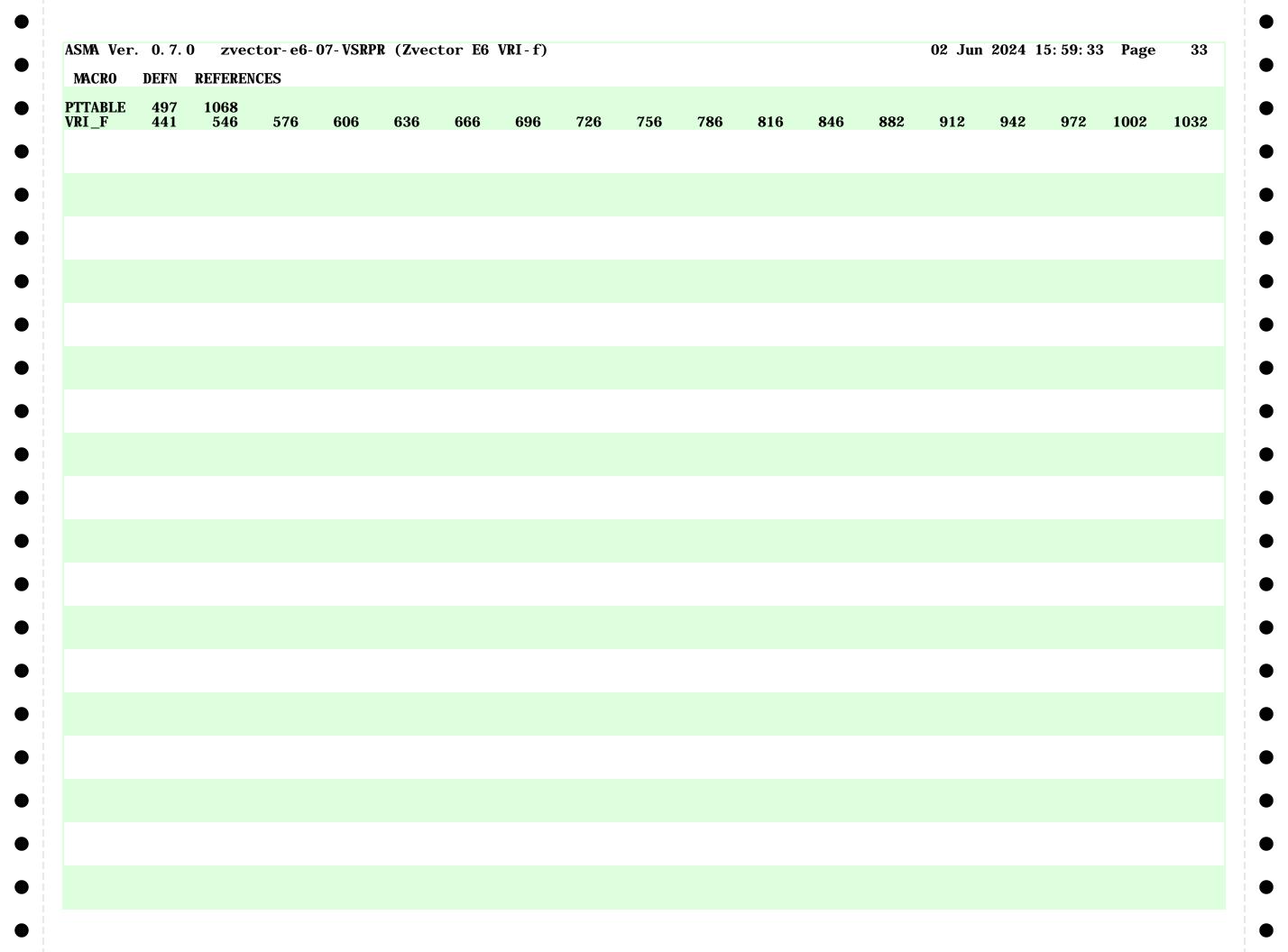
T 0.0	OD THOM CORE	ADDD4		6 VRI-f)				02 Jun 2024	0	27
LOC	OBJECT CODE	ADDR1	ADDR2	STMT						
		00000016	00000001	1141 V22	EQU	22				
		00000017 00000018	00000001	1142 V23 1143 V24	EQU	23 24				
		00000019 000001A	00000001	1144 V25 1145 V26	EQU	25 26				
		000001B	00000001	1146 V27	EQU	27				
		0000001C 0000001D	00000001 00000001	1147 V28	EQU FOU	28 20				
		000001E	00000001	1149 V30	EQU	22 23 24 25 26 27 28 29 30 31				
		000001F	00000001	1150 V31 1151	EQU	31				
				1152	END					

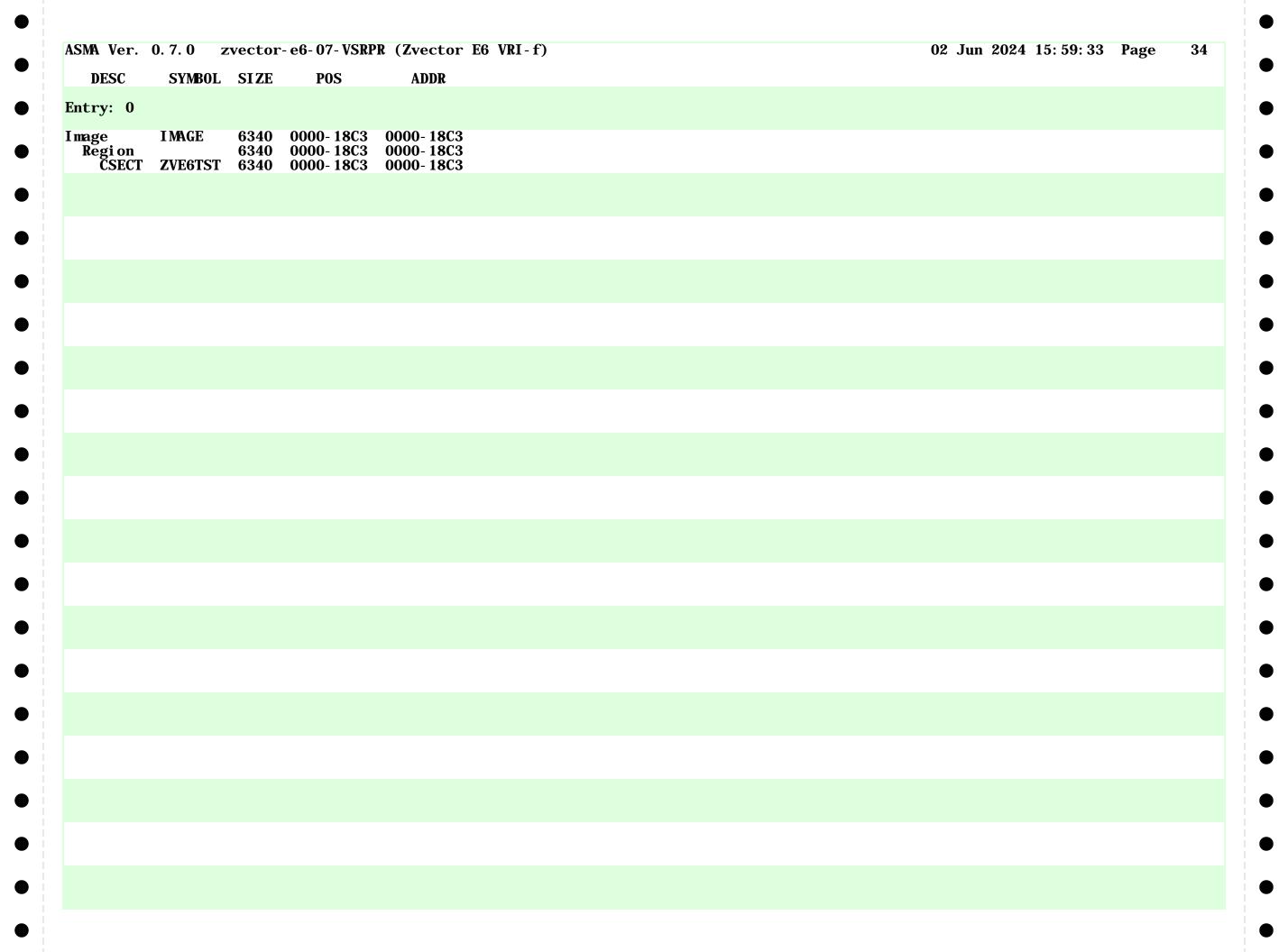
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERE	ENCES											
EGI N	т	00000000	a	0.2	50	00	91										
egi n C	I U	00000200 00000009	2	93 420	59 167	90	91										
C CFOUND	X	00000009 000010EC	1	393	167 154	174											
		000010EC	1			1/4											
CMSK	U		1	421	126												
CMSG	U	0000026E	<u> </u>	143	138												
CCPRTEXP	C	00001093	I 1	373	171												
CPRTGOT	C	000010A3	1	376	178	404											
CPRTLINE	C	00001050	16	368	378	181											
CCPRTLNG	U	00000055	1	378	180												
CCPRTNAME	C	0000107D	8	371	164												
CCPRTNUM	<u>C</u>	00001060	3	369	162												
CCPSW	F	000010E4	4	392	151	<b>569</b>	<b>599</b>	629	659	689	719	749	779	809	839	869	905
					935	965	995	1025	1055								
CTLRO	F	000004A4	4	313	103	104	105	106									
DECNUM	C	000010D1	16	388	159	161	168	170	175	177	193	195	202	204	209	211	
E6TADR	A	000004AC	4	316	112												
E6TEST	4	00000000	32	414	121												
E6TESTS	F	00001870	4	1067	316												
EDIT	X	000010A5	18	383	160	169	176	194	203	210							
ENDTEST	Ü	00000376	1	231	117												
EOJ	Ť	00000488	$\overline{4}$	303	234												
EOJPSW	D	00000478	8	301	303												
TAILCONT	Ŭ	00000366	1	221	184												
FAILED	F	00001000	4	342	223	232											
FAILMSG	Ü	00001000 000002FE	1	191	133	202											
FAILPSW	D	0000021E	8	305	307												
FAILTEST	T T	00000490 000004A0	0	307	235												
[4	II.	000004A0	4	418	201												
	U 1		1 0040		201												
MAGE	1	00000000	6340	0	207	200	200										
<b>(</b>	U	00000400	1	326	327	328	329										
(64	U	00010000	1	328	4 4 5	000											
<b>/</b> 5	Ü	00000008	1	419	145	208											
<b>B</b>	Ū	00100000	1	329	~~~												
/SG	I	000003C0	4	267	250												
/ISGCMD	C	0000040A	9	293	280	281											
VBGMSG	C	00000413	95	294	274	291	272										
<b>ASGMVC</b>	I	00000404	6	291	278												
ASGOK	I	000003D6	2	276	273												
<b>ISGRET</b>	I	000003F0	4	287	284												
<b>I</b> SGSAVE	F	000003F8	4	<b>290</b>	270	287											
VEXTE6	U	0000022A	1	114	136	226											
PNAME	C	00000010	8	426	164	198											
PAGE	Ū	00001000	1	327													
PRT3	Č	000010BB	18	386	160	161	162	169	170	171	176	177	178	194	195	196	203
					204	205	210	211	212	<del>-</del>							
PRTI 4	C	00001040	3	355	205			~									
RTLINE	č	00001010	16	<b>350</b>	360	215											
PRTLNG	II	00001004 0000004C	1	360	214	~10											
PRTM5	Č	0000004C 0000104D	9	358	212												
PRTNAME	č	0000104D 0000102F	8	353	198												
PRTNUM			0														
	C U	00001014	3	351	196 52	100	100	110	100	914	999	999	940	951	967	970	979
80	U	0000000	1	1098	53	103	106	119	180	214	222 659	223	249 718	251 748	267	270	272
					274	276	287	568	598	628	658	688	718	748	778	808	838
	**	0000001		1000	868	904	934	964	994	1024	1054	1.40	4 - 4	150	150	1 ~ 4	101
1	U	0000001	1	1099	126	127	128	131	132	144	145	146	151	152	153	154	181
					215	232	233	281	291								

ASMA Ver. 0.7.0		r- e6- 07- VSR	•		ŕ							(	02 Jun	2024	15: 59:	33 Pa	ge 2
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERE	ENCES											
R10	U	0000000A	1	1108	100	101	570	000	000	000	000	700	750	700	010	040	070
R11	U	0000000B	1	1109	123 906	124 936	570 966	600 996	630 1026	660 1056	690	720	750	780	810	840	870
R12	U	000000C	1	1110	112	115	135	225	1020	1000							
R13 R14	U U	0000000D 0000000E	1	1111 1112													
R15	U	000000F	1	1113	182	216	244	254	255								
R2	U	0000002	1	1100	158 207	159 208	166 209	167 249	168 250	173 251	174 268	175 270	192 276	193 277	200 278	201 280	202 287
					288	563	564	568	569	593	<b>594</b>	598	599	623	624	628	629
					653	654	658	659	683	684	688	689	713	714	718	719	743
					744 838	748 839	749 863	773 <b>864</b>	774 868	778 869	779 899	803 900	804 904	808 905	809 929	833 930	834 934
					935	959	960	964	965	989	990	994	995	1019	1020	1024	1025
<b>R</b> 3	U	0000003	1	1101	1049	1050	1054	1055									
R4	U	0000004	i	1102													
R5	U	0000005	1	1103	115 668	116 692	121 698	245 722	253 728	548 752	572 758	578 782	602 788	608 812	632 818	638 842	662 848
					872	884	908	914	938	732 944	968	974	998	1004	1028	1034	1058
R6	U	00000006	1	1104													
R7 R8	U U	00000007 00000008	1	1105 1106	90	93	94	95	97								
R9	U	0000009	1	1107	91	97	98	100	· ·								
RE1 RE10	F F	000011C8 00001570	4 4	571 841	557 827	560 830											
RE11	F	00001570 000015D8	4	871	857	860											
RE12 RE13	F F	00001640	4	907 937	893 923	896 926											
RE14	F	000016A8 00001710	4 4	967	953	956											
RE15	F	00001778	4	997	983	986											
RE16 RE17	F F	000017E0 00001848	4	1027 1057	1013 1043	1016 1046											
RE2	$ar{\mathbf{F}}$	00001230	$\dot{4}$	601	<b>587</b>	<b>590</b>											
RE3 RE4	F	00001298 00001300	4	631 661	617 647	620 650											
RE5	F	00001300	4	691	677	680											
RE6	F	000013D0	4	721	707	710											
RE7 RE8	F F	00001438 000014A0	4	751 781	737 7 <b>6</b> 7	740 770											
RE9	F	00001508	4	811	797	800											
REA1 REA10	A A	0000119C 00001544	4	560 830													
REA11	A	00001544 000015AC	4	860													
REA12	A	00001614	4	896													
REA13 REA14	A A	0000167C 000016E4	4 4	926 956													
REA15	Ā	0000174C	4	986													
REA16 REA17	A A	000017B4 0000181C	4	1016 1046													
REA2	A	00001204	4	<b>590</b>													
REA3	A	0000126C	4	620													
REA4 REA5	A A	000012D4 0000133C	4	650 680													
REA6	A	000013A4	$ar{4}$	710													
REA7	A	0000140C	4	<b>740</b>													

SYMB0L	<b>TYPE</b>	VALUE	LENGTH	DEFN	REFERE	NCES											
EA8	A	00001474	4	770													
EA9	A	000014DC	4	800	404												
EADDR	A	0000001C	4	429	131												
EG2LOW	Ü	000000DD	1	332													
EG2PATT	U	AABBCCDD	1	331													
ELEN	A	00000018	4	428	0.40	074											
PTDWSAV	Đ	000003B0	8	260	249	251											
PTERROR	<u>I</u>	00000384	4	244	182	216											
PTSAVE	$\mathbf{\underline{F}}$	000003A4	4	257	244	<b>254</b>											
PTSVR5	F	000003A8	4	258	<b>245</b>	<b>253</b>											
HAMT	U	000000B	1	422	<b>565</b>	<b>595</b>	625	655	685	715	<b>745</b>	775	<b>805</b>	835	865	901	931
					961	991	1021	1051									
VOLDPSW	U	00000140	0	55													
1	A	00001180	4	<b>549</b>	1070												
10	A	00001528	4	819	1079												
11	A	00001590	4	849	1080												
12	A	000015F8	4	885	1081												
13	A	00001660	4	915	1082												
14	Ā	000016C8	$\overline{4}$	945	1083												
15	Ā	00001730	$\bar{4}$	975	1084												
16	A	00001798	4	1005	1085												
17	Ā	00001800	$ar{4}$	1035	1086												
2	Ā	000011E8	$\overline{4}$	579	1071												
3	A	00001250	$\overline{4}$	609	1072												
3 1 5	Ä	00001288	$\dot{4}$	639	1073												
<u> </u>	A	00001220	4	669	1073												
, 3	A	00001320	4	699	1075												
7	A	00001360 000013F0	4	729	1076												
3	A	00001310	4	759	1077												
9	A	00001458 000014C0	4	789	1077												
ESTCC	A. T	000014C0 0000026A	_	138													
ESTREST	I	00000252	4	130	128 147												
NUM	U		$\frac{1}{2}$			109											
	H	00000004	_	416	158	192											
SUB	A	00000000	4	415	123												
<b>TABLE</b>	F	00001870	4	1069													
)	U	00000000	1	1119	100	-00	<b>50</b> 7		-0-	000	007	050	057	000	007	710	~4~
1	U	0000001	1	1120	122	566	567	596	597	626	627	656	657	686	687	716	717
					746	747	776	777	806	807	836	837	866	867	902	903	932
10	**	00000001		4400	933	962	963	992	993	1022	1023	1052	1053				
10	Ü	0000000A	1	1129													
11	U	0000000B	1	1130													
12	U	000000C	1	1131													
13	U	000000D	1	1132													
14	U	000000E	1	1133													
15	U	000000F	1	1134													
16	U	0000010	1	1135													
17	U	0000011	1	1136													
18	U	0000012	1	1137													
19	Ū	0000013	1	1138													
FUDGE	X	00001120	16	402	122												
IINPUT	Č	00001130	16	403													
LOUTPUT	X	00001100	16	400	132	<b>567</b>	<b>597</b>	627	657	687	717	747	777	807	837	867	903
	4.	55551100	10	100	933	9 <b>63</b>	993	1023	1053	301	,	, .,		50,	30.	30,	
2	U	00000002	1	1121	<b>564</b>	566	<b>594</b>	596	624	626	654	656	684	686	714	716	744
~	U	0000000		1161	746	77 <b>4</b>	776	<b>804</b>	806	834	836	864	866	900	902	930	932

MA Ver. 0.7.0	zvecto	or- e6- 07- VSR	PR (Zvector	E6 VR	(I - f)						02 Jun 20	<b>24</b> 15: 59: 33	Page	32
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES								
E6TST	F F J R	00001478 000014E0 00000000	4 4 6340	772 802 52 322	759 789 55 272	57	61	65	341	53				
L2(L' MSGMSG) 1'	F	000004BA 000004B0	2 4	319	146	222								
0' (4' 3'	H X	000004B8 000004B4	2 4	321 320	267 153									





	0 zvector-e6-07-VSRPR (Zvector E6 VRI-f)	02 Jun 2024 15: 59: 33 Page 35
STMI	FILE NAME	
/devstor/	/dev/tests/zvector-e6-07-VSRPR. asm	
NO ERRORS FO	OUND **	