SMA ver.	0. 7. 0 zvector-e6-1	12- countzon	eani gni ow	(Zvector Eb VR	K- K)		18 Jun 2024 18: 58: 05 Page
LOC	OBJECT CODE	ADDR1	ADDR2	STMI			
				107 ******* 108 * 109 ******		**************************************	***********
000000		00000000 00000000	00002397	111 ZVE6TST 112 113	START USI NG	0 ZVE6TST, RO	Low core addressability
		00000140	00000000	114 SVOLDPSW	EQU	ZVE6TST+X' 140'	z/Arch Supervisor call old PSW
0000000 00001A0 00001A8	00000001 80000000 00000000 00000200	00000000	000001A0	116 117 118	ORG DC DC	ZVE6TST+X' 1A0' X' 0000000180000000' AD(BEGIN)	z/Architecure RESTART PSW
00001B0 00001D0 00001D8	00020001 80000000 00000000 0000DEAD	000001B0	000001D0	120 121 122	ORG DC DC	ZVE6TST+X' 1D0' X' 0002000180000000' AD(X' DEAD')	z/Architecure PROGRAM CHECK PSW
00001E0		000001E0	00000200	124 125	ORG	ZVE6TST+X' 200'	Start of actual test program
				120			

ASMA Ver.	0. 7. 0 zvector-e6-1	2- countzon	edhi ghl ow	(Zvector]	E6 VRR	- k)		18 Jun 2024	18: 58: 05	Page	4
LOC	OBJECT CODE	ADDR1	ADDR2	STMI							

					*****	*****	**************************************	6TST" program itself ***********	*****	****	
				130 * 131 * A	Archi t	ecture	e Mode: z/Arch				
				132 * 1 133 *	Regi st	er Usa	age:				
				134 * 135 *	R0 R1-4		work)				
				136 *	R5	Ť€		ble - current test base			
				137 * 138 *	R6- R7 R8	Èi	work) Trst base register				
				139 * 140 *	R9 R10	Se Tł	econd base registe nird base register	er r			
				141 * 142 *	R11 R12	E6	GTEST call return GTESTS register				
				143 * 144 *	R13 R14	(v	work) ubroutine call				
				145 *	R15		econdary Subrouti	ne call or work			
				146 * 147 ***	*****	*****	******	*********	*****	****	
00000200		00000200		149		USING	BEGIN, R8	FIRST Base Register			
00000200 00000200		00001200 00002200		150 151		USING USING	•	SECOND Base Register THIRD Base Register			
00000200	0580			152 153 BEG	ΓN	BALR	R8, 0	Initalize FIRST base regi	ster		
00000202	0680 0680			154 155		BCTR	R8, 0 R8, 0	Initalize FIRST base regi Initalize FIRST base regi	ster		
	4190 8800		00000800	156 157				9			
	4190 9800		00000800	158		LA LA	R9, 2048(, R8) R9, 2048(, R9)	Initalize SECOND base reg Initalize SECOND base reg			
0000020E	41A0 9800		00000800	159 160		LA	R10, 2048(, R9)	Initalize THIRD base regi	ster		
00000212	41A0 A800		00000800	161 162		LA	R10, 2048(, R10)	Initalize THIRD base regi	ster		
00000216 0000021A	B600 834C 9604 834D		0000054C 0000054D	163 164			RO, RO, CTLRO CTLRO+1, X' 04'	Store CRO to enable AFP Turn on AFP bit			
0000021E	9602 834D B700 834C		0000054D 0000054C	165 166		0 I	CTLR0+1, X' 02' R0, R0, CTLR0	Turn on Vector bit Reload updated CRO			
00000222	2,00 0010		00000010	167				**********	*****	****	
				169 * Is	s vect	or- pac	cked-deci mal - enha	ncement facility 2 install		192)	
				170 **** 171						· · · · · · · · · · · · · · · · · · ·	
00000226	47F0 80C8		000002C8	172 173+		FCHECE B	K 192, ' vector- pac X0001	ked-decimal-enhancement fa	cility 2'		
				174+* 175+*				Fcheck data area skip messgae			
0000022A 00000244	40404040 40404040 A58583A3 96996097			176+SKT(177+				ping tests: ' decimal-enhancement facili	tv 2'		
00000270	40868183 899389A3	000006В	0000001	178+ 179+SKL		DC EQU		192) is not installed.	-J ~		
กกกกกรกอ	0000000 0000000	0000000	3000001	180+* 181+				facility bits			
00000298 000002A0	00000000 00000000 0000000 00000000			181+ 182+FB00		DS DS	FD 4FD	gap			

ASMA Ver.	0. 7. 0 zvector-e6-1	2- countzon	edhi ghl ow	(Zvector E6	VRR- k)		18 Jun 2024 18: 58: 05 P	age
LOC	OBJECT CODE	ADDR1	ADDR2	STMI				
000002C0	00000000 00000000			183+ 184+*	DS	FD	gap	
000002C8 000002CC 000002D0 000002D4 000002D8 000002DC	4100 0004 B2B0 80A0 B982 0000 4300 80B8 5400 8354 4770 80F0	000002C8	0000001 0000004 000002A0 000002B8 00000554 000002F0	185+X0001 186+ 187+ 188+ 189+ 190+ 191+ 192+* 193+* faci	EQU LA STFLE XGR IC N BNZ	* R0, ((X0001-FB0001)/8)-1 FB0001 R0, R0 R0, FB0001+24 R0, =F' 128' XC0001 not set, issue message	get facility bits get fbit byte is bit set?	
000002E0 000002E4 000002E8 000002EC	4100 006B 4110 802A 4520 8268 47F0 8330	000002F0	0000006B 0000022A 00000468 00000530 00000001	194+* 195+ 196+ 197+ 198+ 199+XC0001	LA LA BAL B EQU	RO, SKL0001 R1, SKT0001 R2, MSG E0J	message length message address	

ASMA Ver.	0. 7. 0	zvector-e	6-12-countzon	edhi ghl ow	(Zvecto	r E6 VRR-k)		18 Jun 2024 18: 58: 05 Page 7
LOC	OBJ.	ECT CODE	ADDR1	ADDR2	STM			
					~01			***********
						cc was not	as expected	**********
			0000033A	00000001	239 * 240 C		*	· · · · · · · · · · · · · · · · · · ·
0000033A	E310 0	001 0082	0000033A	00000001	241	XG XG	R1, R1	
00000340	E310 5	007 0076		0000007	242	LB	R1, M3	m3 has CS bit
	5410 8			0000055C	243	N_	R1, =F'1'	get CS (CC set) bit
0000034A	4780 8	11E		0000031E	244	BZ	TESTREST	ignore if not set
					245 * 246 *	extract (C	extracted PSW	,
					247 *	extract cc	extracted 15W	
0000034E	5810 8			000010D8	248	L	R1, CCPSW	
	8810 0			000000C	249	SRL	R1, 12	
	5410 8			00000560	250	N	R1, =XL4' 3'	
0000035A	4210 8	EEU		000010E0	251 252 *	STC	R1, CCFOUND	save cc
						FILL IN MES	SSAGE	
					254 *		.5.142	
0000035E	4820 5			0000004	255	LH	R2, TNUM	get test number and convert
00000362	4E20 8		00004000	000010C8	256	CVD	R2, DECNUM	
		EB2 8E9C EB2 8EC8	000010B2 000010B2	0000109C 000010C8	257 258	MVC ED	PRT3, EDIT PRT3, DECNUM	
		E57 SEBF	00001052	000010C8	259	MVC	CCPRTNUM(3)	
000000.2		20. 0221	00001007	00001021	260	1124	001101110112(0)	The state of the s
00000378	D207 8	E74 500A	00001074	000000A	261	MVC	CCPRTNAME, 01	PNAME fill in message with instruction
000002E	DOOD O	000			262	VCD	no no	state CC as IIO
0000037E 00000382	B982 0 4320 5			00000008	263 264	XGR I C	R2, R2 R2, CC	get CC as U8
00000386	4E20 8			00000008 000010C8	265	CVD	R2, DECNUM	and convert
		EB2 8E9C	000010B2	0000109C	266	MVC	PRT3, EDIT	
		EB2 8EC8	000010B2	000010C8	267	ED	PRT3, DECNUM	
00000396	D200 8	E8A 8EC1	0000108A	000010C1	268	MVC	CCPRTEXP(1),	PRT3+15 fill in message with CC field
0000039C	B982 0	1 199			269 270	XGR	R2, R2	get CCFOUND as U8
	4320 8			000010E0	271	IC	R2, CCFOUND	get ceround as to
	4E20 8			000010C8	272	CVD	R2, DECNUM	and convert
		EB2 8E9C	000010B2	0000109C	273	MVC	PRT3, EDIT	
		EB2 8EC8	000010B2	000010C8	274	ED	PRT3, DECNUM	
000003B4	שצעט 8.	E9A 8EC1	0000109A	000010C1	275 276	MVC	CCPRTGOT(1)	PRT3+15 fill in message with ccfound
000003BA	4100 0	055		00000055	277	LA	RO, CCPRTLNG	message length
	4110 8			00001047	278	LA	R1, CCPRTLIN	E messagfe address
000003C2	45F0 8	232		00000432	279	BAL	R15, RPTERRO	
00000000	47E0 0	014		00000414	280	n	EATI COMP	
000003C6	47F0 8	&14		00000414	281	В	FAI LCONT	

ASMA Ver.	0. 7. 0 zvector- e6- 1	2- countzon	edhi ghl ow	(Zvect	tor E6 VR	R- k)		18 Jun 2024 18: 58: 05 Page	11
LOC	OBJECT CODE	ADDR1	ADDR2	STM					
				391 392 393	****** * *****	****** Normal *****	**************************************	**************************************	
00000520	00020001 80000000			395	E0JPSW	DC	0D' 0' , X' 000200	018000000', AD(0)	
00000530	B2B2 8320		00000520	397	E0J	LPSWE	EOJPSW	Normal completion	
00000538	00020001 80000000			399	FAI LPSW	DC	OD' O' , X' 000200	018000000', AD(X'BAD')	
00000548	B2B2 8338		00000538	401	FAI LTEST	LPSWE	FAILPSW	Abnormal termination	
				404			**************************************	**************************************	
0000054C	0000000			407	CTLRO	DS	F	CRO	
00000550				408		DS DS	F F	CRO	
00000554 00000554 00000558	00000080 000022D0			410 411 412		LTORG	, =F' 128' =A(E6TESTS)	Literals pool	
0000055C 00000560	0000001			413 414			=F' 1' =XL4' 3'		
	0000			415 416 417			=H' 0' =AL2(L' MSGMSG)		
				418 419	*	some (constants		
		0000400 00001000 00010000 00100000			PAGE K64	EQU EQU EQU	1024 (4*K) (64*K) (K*K)	One KB Size of one page 64 KB 1 MB	
				424 425		•			
		AABBCCDD 00000DD	00000001 00000001		REG2PATT REG2LOW		X' AABBCCDD' X' DD'	Polluted Register pattern (last byte above)	

LOC OBJECT CODE ADDR1 ADDR2 STMF 528 ************************************	
529 * Macros to help build test tables	******
530 *	
531 * VRR_K Macro to help build test tables 532 ************************************	******
533 MACRO 534 VRR_K &I NST, &MB, &CC	don toat
535 . * &INST - instruction i 536 . * &MB	ider test
537 . * &CC - expected CC 538 . *	
539 LCLA &XCC(4) &CC has mask values for FAILED 540 &XCC(1) SETA 7 CC != 0	condition codes
541 &XCC(2) SETA 11 CC $!= 1$	
542 &XCC(3) SETA 13 CC != 2 543 &XCC(4) SETA 14 CC != 3	
544	
545 GBLA &TNUM 546 &TNUM SETA &TNUM+1	
547	
548 DS OFD 549 USING *, R5 base for test data and 550	test routine
551 T&TNUM DC A(X&TNUM) address of test routing	9
552 DC H'&TNUM test number 553 DC XL1'00'	
554 DC HL1'&MB' &MB	
555 DC HL1'&CC' cc 556 DC HL1'&XCC(&CC+1)' cc failed mask	
557	
558 DC CL8'&INST' instruction name 559 DC A(16) result length	
560 REA&TNUM DC A(RE&TNUM) result address	
561 . * 562 * INSTRUCTION UNDER TEST	ROUTINE
563 X&TNUM DS OF	
564 VL V1, V1FUDGE pollute V1 565 VL V2, RE&TNUM+16 get V2 source	
${\bf 566}$	
567 &INST V1, V2, &MB test instruction 568	
569 VST V1, V10UTPUT save	
570 EPSW R2, R0 exptract psw 571 ST R2, CCPSW to save CC	
572 573 BR R11 return	
574 575 RE&TNUM DC OF	
576 DROP R5 577	
578 MEND	

ASMA Ver.	0. 7. 0 zvector-e6-1	2- countzon	edhi ghl ow	(Zvector E6 VR)	-k) 18 Jun 2024 18: 58: 05 Page	17
LOC	OBJECT CODE	ADDR1	ADDR2	STMI		

				605 ******	E6 VRR_K tests **********************************	
00001188		0000000	00002397	606 ZVE6TST 607	CSECT , DS OF	
				609 610 *	PRINT DATA	
				611 *	E651 VCLZDP - VECTOR COUNT LEADING ZERO DIGITS	
				612 * 613 *	E654 VUPKZH - VECTOR UNPACK ZONED HIGH E65C VUPKZL - VECTOR UNPACK ZONED LOW	
				614 * 615 *	VRR_K instr, m3	
				616 * 617 *	followed by v1 - expected result (16 bytes)	
				618 * 619	v2 - 16 byte packed decimal source	
				620 *	- VECTOR COUNT LEADING ZERO DIGITS	
				622 *		
				623 * VCLZDP 624 *	m3=3 (NV=0, NZ=1, CS=1)	
				625 * 626 *	m3= 5 (NV=1, NZ=0 , CS=1) m3= 7 (NV=1, NZ=1 , CS=1)	
00001188				627 628+	VRR_K VCLZDP, 1, 2 DS OFD	
00001188 00001188	00001144	00001188		629+ 630+T1	USING *, R5 base for test data and test routine DC A(X1) address of test routine	
0000118C 0000118E	0001			631+ 632+	DC H'1' test number DC XL1'00'	
0000118F	01			633+	DC HL1'1' &MB	
00001190 00001191	OD			634+ 635+	DC HL1'2' cc DC HL1'13' cc failed mask	
00001192 0000119C	E5C3D3E9 C4D74040 00000010			636+ 637+	DC CL8' VCLZDP' instruction name DC A(16) result length	
000011A0	000011C8			638+REA1 639+*	DC A(RE1) result address INSTRUCTION UNDER TEST ROUTINE	
000011A4 000011A4	E710 8F38 0006		00001138	640+X1 641+	DS OF VL V1, V1FUDGE pollute V1	
000011AA	E720 5050 0006 E612 0010 0051		00001136 000011D8	642+ 643+	VL V2, RE1+16 get V2 source VCLZDP V1, V2, 1 test instruction	
000011B6	E710 8F00 000E		00001100	644+	VST V1, V10UTPUT save	
000011BC 000011C0	B98D 0020 5020 8ED8		000010D8	645+ 646+	EPSW R2, R0 exptract psw ST R2, CCPSW to save CC	
000011C4 000011C8	07FB			647+ 648+RE1	BR R11 return DC OF	
000011C8 000011C8	0000000 0000001D			649+ 650	DROP R5 DC XL16'0000000000001D00000000000000' V1 result	
000011D0 000011D8	00000000 00000000 0000000 00000000			651	DC XL16' 000000000000000000000000000000000000	
000011E0	00000000 0000010C			652		
00001150				653	VRR_K VCLZDP, 1, 2 DS OFD	
000011E8 000011E8		000011E8		654+ 655+	DS OFD USING *, R5 base for test data and test routine	

VRR_K VCLZDP, 3, 2

VRR K VCLZDP, 3, 1

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LOC	OBJECT CODE	ADDR1	ADDR2	STMI						
000014E8				864+	DS	OFD				
000014E8		000014E8		865 +	USING	*, R 5	base for test data and	test routin	ne	
000014E8	00001504			866+T10	DC	A(X10)	address of test routine	;		
000014EC	000A			867+		H' 10'	test number			
000014EE	00			868+		XL1' 00'				
000014EF	03			869+	DC	HL1' 3'	&MB			
000014F0	01			870 +	DC	HL1' 1'	cc			
000014F1	OB			871+	DC	HL1' 11'	cc failed mask			
000014F2	E5C3D3E9 C4D74040			872+	DC	CL8' VCLZDP'	instruction name			
000014FC	0000010			873+	DC	A(16)	result length			
00001500	00001528			874+REA10	DC	A(RE10)	result address			
				875+*			INSTRUCTION UNDER TEST	ROUTINE		
00001504				876+X10	DS	0F				
00001504	E710 8F38 0006		00001138	877+		V1, V1FUDGE	pollute V1			
0000150A	E720 5050 0006		00001538	878+	VL	V2, RE10+16	get V2 source			
00001510	E612 0030 0051		00001100	879+	VCLZDI	P V1, V2, 3	test instruction			
00001516	E710 8F00 000E		00001100	880+		V1, V10UTPUT	save			
0000151C	B98D 0020		00004000	881+		R2, R0	exptract psw			
00001520	5020 8ED8		000010D8	882+	ST	R2, CCPSW	to save CC			
00001524	07FB			883+	BR	R11	return			
00001528				884+RE10	DC	0F				
00001528	00000000 0000001E			885+		R5	0.1 E0.000000000000000000000000000000000	V114		
00001528	00000000 0000001F			886	DC	XL16, 00000000000000	001F0000000000000000'	V1 result		
00001530 00001538	00000000 00000000 0000000 00000000			887	DC	XI.16' 0000000000000	00000000000000000000000000000000000000	V2 source		
00001540	00000000 0000000D			007	20			va Source		
				888				45		
				889 * VCLZDP 890			m3= 5 (NV=1, NZ=0 , CS=	:1)		
				891		VCLZDP , 5, 2				
00001548				892+	DS	OFD		_		
00001548		00001548		893+	USING		base for test data and		ne	
00001548	00001564			894+T11		A(X11)	address of test routine	;		
0000154C	000B			895+	DC	H' 11'	test number			
0000154E	00			896+	DC	XL1' 00'	035			
0000154F	05			897+	DC	HL1'5'	&M3			
00001550	02 on			898+	DC	HL1' 2'	CC			
00001551	OD E5C3D3E9 C4D74040			899+	DC	HL1' 13'	cc failed mask			
00001552 0000155C	00000010			900+ 901+	DC DC	CL8' VCLZDP' A(16)	instruction name			
00001550	000010			901+ 902+REA11	DC DC	A(RE11)	result length result address			
0001300	00001300			902+ REATT 903+*	DC	A(REII)	INSTRUCTION UNDER TEST	DUILL NE		
00001564				903+* 904+X11	DS	0F	INSTRUCTION UNDER IEST	MOUITNE		
00001564	E710 8F38 0006		00001138	904+X11 905+	VL	V1, V1FUDGE	pollute V1			
0000156A	E710 8F38 0000 E720 5050 0006		00001138	906+	VL VL	V2, RE11+16	get V2 source			
0000130A 00001570	E612 0050 0051		00001330	907+		P V1, V2, 5	test instruction			
00001576	E710 8F00 000E		00001100	907+ 908+		V1, V2, 3 V1, V10UTPUT	save			
0000157C	B98D 0020		30001100	909+		R2, R0	exptract psw			
00001570	5020 8ED8		000010D8	910+	ST	R2, CCPSW	to save CC			
00001584	07FB		0001000	911+	BR	R11	return			
00001588				912+RE11	DC	OF				
00001588				913+	DROP	R5				
00001588	0000000 0000001D			914	DC		001D0000000000000000'	V1 result		
00001590	0000000 00000000			<u> </u>				COMI C		
00001598	00000000 00000000			915	DC	XL16' 0000000000000	000000000000000010C'	V2 source		
					-					
000015A0	00000000 0000010C									

DC

XL16' 00000000000000111000000000010D'

V2 source

967

00001650

00001658

00001660

0000000 00000000

0000000 00000001

11000000 0000010D

ADDR1

ADDR2

STM

968 969

OBJECT CODE

00000000 0000000D

00001720

					968		1101 GDD - 0		
	00001000				969		VCLZDP, 5, 0		
İ	00001668		00001000		970+		OFD		
	00001668	00001001	00001668		971+	USING		base for test data and	
	00001668	00001684			972+T14		A(X14)	address of test routine	9
i	0000166C	000E			973+		H' 14'	test number	
	0000166E	00			974+		XL1' 00'		
	0000166F	05			975+		HL1' 5'	&M3	
	00001670	00			976+		HL1' 0'	cc	
	00001671	07			977+		HL1' 7'	cc failed mask	
	00001672	E5C3D3E9 C4D74040			978+		CL8' VCLZDP'	instruction name	
	0000167C	0000010			979+		A(16)	result length	
	00001680	000016A8			980+REA14	DC	A(RE14)	result address	
					981+*			INSTRUCTION UNDER TEST	ROUTINE
	00001684				982+X14		OF		
İ	00001684	E710 8F38 0006		00001138	983+	VL	V1, V1FUDGE	pollute V1	
	0000168A	E720 5050 0006		000016B8	984+	VL	V2, RE14+16	get V2 source	
	00001690	E612 0050 0051			985+	VCLZDF	V1, V2, 5	test instruction	
i	00001696	E710 8F00 000E		00001100	986+	VST	V1, V10UTPUT	save	
	0000169C	B98D 0020			987+	EPSW	R2, R0	exptract psw	
	000016A0	5020 8ED8		000010D8	988+		R2, CCPSW	to save CC	
i	000016A4	07FB			989 +		R11	return	
	000016A8				990+RE14		OF		
	000016A8				991+		R 5		
i	000016A8	00000000 0000001F			992			001F0000000000000000'	V1 result
	000016B0	0000000 00000000							
	000016B8	0000000 00000000			993	DC	XL16' 00000000000000	0000000000000000C'	V2 source
	000016C0	0000000 000000C							
					994				
					995	VRR K	VCLZDP, 5, 0		
i	000016C8				996+		OFD		
	000016C8		000016C8		997+	USING		base for test data and	test routine
	000016C8	000016E4			998+T15		A(X15)	address of test routine	
	000016CC	000F			999+		H'15'	test number	
	000016CE	00			1000+		XL1' 00'		
	000016CF	05			1001+		HL1' 5'	&M3	
	000016D0	00			1002+		HL1' 0'	cc	
	000016D1				1003+		HL1' 7'	cc failed mask	
		E5C3D3E9 C4D74040			1004+		CL8' VCLZDP'	instruction name	
		00000010			1005+		A(16)	result length	
		00001708			1006+REA15		A(RE15)	result address	
					1007+*		·	INSTRUCTION UNDER TEST	ROUTINE
	000016E4				1008+X15	DS	OF		
	000016E4	E710 8F38 0006		00001138	1009+		V1, V1FUDGE	pollute V1	
	000016EA	E720 5050 0006			1010+		V2, RE15+16	get V2 source	
1		E612 0050 0051			1011+		V2, N210+10 V1, V2, 5	test instruction	
İ	000016F6	E710 8F00 000E		00001100	1012+		V1, V10UTPUT	save	
	000016FC	B98D 0020		30001100	1013+	EPSW		exptract psw	
1	00001010	5020 8ED8		000010D8	1014+		R2, CCPSW	to save CC	
ĺ	00001704	07FB		0001000	1015+		R11	return	
	00001701	0.22			1016+RE15		0F	- Cui II	
1	00001708				1010+KL13 1017+		R5		
i	00001708	0000000 0000001F			1017			001F0000000000000000'	V1 result
	OUUTIUU				1010	20	***** 00000000000000000000000000000000	,011 00000000000000000	vi icouic
	00001710	00000000 00000000							
İ	00001710 00001718	00000000 00000000 0000000 00000000			1019	DC	XI.16' 0000000000000	00000000000000000000000000000000000000	V2 source

000017D0

1333+REA27

DC

A(RE27)

result address

00001B60

00001B88

1359+REA28

V1, V1FUDGE VL V2, RE28+16 VL **VUPKZH V1, V2, 8** VST V1, V10UTPUT EPSW R2, R0

R11

0F

R5

0F

save exptract psw to save CC

return

save

return

&M3

cc

XL16' F0F5F6F7F8F9F0F1F2F3F4F5F6F7F8F9' DC DC

XL16' 56789012345678901234567890123459'

V2 source

V1 result

			-0.0			
			1374 * VUPKZH			m3= 12 (NSV=1, NV=1 , fake CS=0)
			1375	VRR K	VUPKZH, 12, 0	
00001C08			1376+	DS _	OFD	
00001C08		00001C08	1377+	USING	*, R5	base for test data and test routine
00001C08	00001C24		1378+T29	DC	A(X29)	address of test routine
00001C0C	001D		1379+	DC	H' 29'	test number
00001C0E	00		1380+	DC	XL1' 00'	
00001C0F	OC		1381+	DC	HL1' 12'	&MB
00001C10	00		1382+	DC	HL1' 0'	cc

HL1'0' 00001C10 00 1382+ DC 00001C11 07 1383 +DC HL1'7' CL8' VUPKZH' 00001C12 E5E4D7D2 E9C84040 1384+ DC 00001C1C 00000010 1385 +DC A(16)

ASMA Ver. 0.7.0 zvector-e6-12-countzonedhighlow (Zvector E6 VRR-k)

ADDR1

00001BA8

ADDR2

00001138

00001B98

00001100

000010D8

00001138

00001BF8

00001100

000010D8

STM

1334+*

1336+

1337+

1338+

1340+

1341+

1342+

1344+

1345

1346

1347 1348

1349+

1350+

1352+

1353+

1354 +

1355 +

1356+

1357+

1358+

1360+* 1361+X28

1366+

1367+

1368+

1370 +

1371

1372

1373

1369+RE28

1351+T28

1343+RE27

1339+

1335+X27

DS

VL

VL

VST

ST

BR

DC

DC

DC

DS

DC

DC

DC

DC

DC

DC

DC

DC

DC

DS

ST

BR

DC

DROP

DROP

0F

VUPKZH V1, V2, 8

R11

0F

R5

VRR K VUPKZH, 8, 0

A(X28)

XL1' 00'

HL1'8'

HL1'0'

HL1'7'

A(16)

A(RE28)

R2, CCPSW

CL8' VUPKZH'

H' 28'

OFD

USING *, R5

EPSW R2, R0

V1, V1FUDGE

V2, RE27+16

V1. V10UTPUT

R2, CCPSW

LOC

00001B64

00001B64 00001B6A

00001B70

00001B76

00001B7C

00001B80

00001B84

00001B88

00001B88

00001B88

00001B90

00001B98

00001BA0

00001BA8

00001BA8

00001BA8

00001BAC

00001BAE

00001BAF

00001BB0

00001BB1

00001BB2 00001BBC

00001BC0

00001BC4

00001BC4

00001BCA

00001BD0

00001BD6

00001BDC

00001BE0

00001BE4

00001BE8

00001BE8

00001BE8 00001BF0

00001BF8

00001C00

OBJECT CODE

E710 8F38 0006

E720 5050 0006

E612 0080 0054

E710 8F00 000E

F0F1F2F3 F4F5F6F7

F8F9F0F1 F2F3F4F5

12345678 90123456

78901234 5678901C

E5E4D7D2 E9C84040

E710 8F38 0006

E720 5050 0006

E612 0080 0054

E710 8F00 000E

F0F5F6F7 F8F9F0F1

F2F3F4F5 F6F7F8F9

56789012 34567890

12345678 90123459

B98D 0020

5020 8ED8

00001BC4

00000010

00001BE8

B98D 0020

5020 8ED8

07FB

001C

00

08

00

07

07FB

cc failed mask instruction name result length

1437 *

m3 = 6 (NSV = 0, NV = 1, P1 = 1, fake CS = 0)

	0. 7. 0 zvector-e6-1		O		R- k)		18 Jun 202	4 18: 58: 05 Pag	ge 35
LOC	OBJECT CODE	ADDR1	ADDR2	STM					
00001E28 00001E30	F0F1F2F3 F4F5F6F7 F8F9F0F1 F2F3F4F5			1544	DC	XL16' F0F1F2F3F4F5	F6F7F8F9F0F1F2F3F4F5'	V1 result	
0001E38	56789012 34567890 12345678 9012345D			1545	DC	XL16' 567890123456	7890123456789012345D'	V2 source	
UUU1E4U	12343078 90123439			1546					
				1547 * VUPKZL 1548	VRR K	WUPKZL, 4, 0	4 ($NSV=0$, $NV=1$, $P1=0$, fake CS=0)	
0001E48		00004540		1549+	DS _	OFD			
0001E48 0001E48	00001E64	00001E48		1550+ 1551+T35	USI NG DC	*, R5 A(X35)	base for test data and address of test routing		
0001E4C	0023			1552+	DC	Н' 35'	test number		
0001E4E 0001E4F	00 04			1553+ 1554+	DC DC	XL1' 00' HL1' 4'	&MB		
0001E50	00			1555+	DC	HL1' 0'	cc		
0001E51 0001E52	07 E5E4D7D2 E9D34040			1556+ 1557+	DC DC	HL1' 7' CL8' VUPKZL'	cc failed mask instruction name		
0001E5C	00000010			1558+	DC	A(16)	result length		
0001E60	00001E88			1559+REA35 1560+*	DC	A(RE35)	result address INSTRUCTION UNDER TEST	DOUTINE	
0001E64				1561+X35	DS	0F	INSTRUCTION UNDER IEST	RUUIINE	
0001E64	E710 8F38 0006		00001138	1562+	VL	V1, V1FUDGE	pollute V1		
0001E6A 0001E70	E720 5050 0006 E612 0040 005C		00001E98	1563+ 1564+	VL VUPKZI	V2, RE35+16 L V1, V2, 4	get V2 source test instruction		
0001E76	E710 8F00 000E		00001100	1565+	VST	V1, V10UTPUT	save		
0001E7C 0001E80	B98D 0020 5020 8ED8		000010D8	1566+ 1567+	EPSW ST	R2, R0 R2, CCPSW	exptract psw to save CC		
0001E84	07FB		00001020	1568+	BR	R11	return		
0001E88 0001E88				1569+RE35 1570+	DC DROP	OF R5			
0001E88	F6F7F8F9 F0F1F2F3			1571	DC		F2F3F4F5F6F7F8F9F091'	V1 result	
	F4F5F6F7 F8F9F091 12345678 90123456			1572	DC	XL16' 123456789012	34567890123456789019'	V2 source	
	78901234 56789019				DC	ALIO IZOIOO7000IZ	0100/000120100/00010	va Bource	
				1573 1574	VDD K	VUPKZL, 4, 0			
0001EA8				1575+	DS	OFD			
0001EA8 0001EA8	00001EC4	00001EA8		1576+ 1577+T36	USI NG DC	*, R 5 A (X 36)	base for test data and address of test routing		
0001EA6	00001EC4 0024			1578+	DC	H'36'	test number	le	
	00			1579+	DC	XL1' 00'	01/0		
	04 00			1580+ 1581+	DC DC	HL1' 4' HL1' 0'	&MB CC		
0001EB1	07			1582+	DC	HL1' 7'	cc failed mask		
	E5E4D7D2 E9D34040 00000010			1583+ 1584+	DC DC	CL8' VUPKZL' A(16)	instruction name result length		
0001EC0	00001EE8			1585+REA36 1586+*	DC	A(RE36)	result address INSTRUCTION UNDER TEST	ROUTINE	
0001EC4				1587+X36	DS	OF		WOOTINE	
0001EC4 0001ECA	E710 8F38 0006 E720 5050 0006		00001138 00001EF8	1588+ 1589+	VL VL	V1, V1FUDGE V2, RE36+16	pollute V1 get V2 source		
0001ED0	E612 0040 005C			1590+	VUPKZ	L V1, V2, 4	test instruction		
0001ED6	E710 8F00 000E B98D 0020		00001100	1591+	VST	V1, V10UTPUT	save		
0001EDC 0001EE0	5020 8ED8		000010D8	1592+ 1593+	ST EPSW	R2, R0 R2, CCPSW	exptract psw to save CC		
0001EE4	07FB		-	1594+	BR	R11	return		
0001EE8				1595+RE36	DC	0F			

				C					
LOC	OBJECT CODE	ADDR1	ADDR2	STM					
001FA8				1648+RE38	DC	0F			
001FA8				1649+	DROP	R5			
001FA8	F0F1F2F3 F4F5F6F7			1650	DC	XL16' F0F1F2F3F4F51	F6F7F8F9FFF1F2F3F4F5'	V1 result	
001FB0	F8F9FFF1 F2F3F4F5								
001FB8	56789012 34567890			1651	DC	XL16' 5678901234567	'890123456789F12345D'	V2 source	
001FC0	12345678 9F12345D								
				1652			0 (NOV. 4 NV. 0 D4	0 0 1 00 0	
				1653 * VUPKZL			= 8 ($NSV=1$, $NV=0$, $P1=0$	=0, fake CS=0)	
001500				1654		VUPKZL, 8, 0			
001FC8		00001EC0		1655+	DS	OFD * D5	hara Cam tant data and	444 !	
001FC8	00001EE4	00001FC8		1656+ 1657+T39	USING		base for test data and		
001FC8 001FCC	00001FE4 0027			1658+	DC DC	A(X39) H' 39'	address of test routing test number	e	
001FCE	0027			1659+	DC DC	XL1' 00'	test number		
001FCE	08			1660+	DC	HL1' 8'	&MB		
001FD0	00			1661+	DC DC	HL1' 0'	CC		
001FD1	07			1662+	DC DC	HL1' 7'	cc failed mask		
001FD2	E5E4D7D2 E9D34040			1663+	DC	CL8' VUPKZL'	instruction name		
001FDC	00000010			1664+	DC	A(16)	result length		
001FE0	00002008			1665+REA39	DC	A(RE39)	result address		
				1666+*		,	INSTRUCTION UNDER TEST	ROUTINE	
001FE4				1667+X39	DS	OF			
001FE4	E710 8F38 0006		00001138	1668+	VL	V1, V1FUDGE	pollute V1		
001FEA	E720 5050 0006		00002018	1669+	VL	V2, RE39+16	get V2 source		
001FF0	E612 0080 005C			1670+		L V1, V2, 8	test instruction		
001FF6	E710 8F00 000E		00001100	1671+	VST	V1, V10UTPUT	save		
001FFC	B98D 0020		00001070	1672+		R2, R0	exptract psw		
0002000	5020 8ED8		000010D8	1673+	ST	R2, CCPSW	to save CC		
002004	07FB			1674+	BR	R11	return		
002008				1675+RE39	DC DROP	OF R5			
002008 002008	F6F7F8F9 F0F1F2F3			1676+ 1677	DROP DC		72F3F4F5F6F7F8F9F091'	V1 result	
002010	F4F5F6F7 F8F9F091			1077	DC	ALIO FOF/F8F9F0F11	2737473707776797091	vi result	
002010	12345678 90123456			1678	DC	VI 16' 193/567800193	34567890123456789019'	V2 source	
002018	78901234 56789019			1076	DC	AL10 1234307890123	94307690123430769019	va source	
002020	76501254 50765015			1679					
				1680	VRR K	VUPKZL, 8, 0			
002028				1681+	DS DS	OFD			
002028		00002028		1682+	USING		base for test data and	test routine	
002028	00002044			1683+T40	DC	A(X40)	address of test routing		
00202C	0028			1684+	DC	H' 40'	test number		
00202E	00			1685+	DC	XL1' 00'			
00202F	08			1686+	DC	HL1'8'	&MB		
002030	00			1687+	DC	HL1' 0'	cc		
002031	07 EFEADZDO EODOAOAO			1688+	DC	HL1' 7'	cc failed mask		
002032	E5E4D7D2 E9D34040			1689+	DC	CL8' VUPKZL'	instruction name		
00203C	00000010			1690+ 1691+REA40	DC	A(16)	result length		
002040	00002068			1691+KEA4U 1692+*	DC	A(RE40)	result address INSTRUCTION UNDER TEST	DOUTI NE	
002044				1692+** 1693+X40	DS	0F	INSTRUCTION UNDER IEST	RUUIINE	
002044	E710 8F38 0006		00001138	1694+	VL	V1, V1FUDGE	pollute V1		
002044 00204A	E710 8F38 0000 E720 5050 0006		00001138	1695+	VL VL	V1, V1FUDGE V2, RE40+16	get V2 source		
	E612 0080 005C		3000k070	1696+		L V1, V2, 8	test instruction		
りししというい	TOIM 0000 0000								
0002050 0002056	E710 8F00 000F		00001100	1697+	VST	V1. V10HTPHT	save		
002050 0002056 000205C	E710 8F00 000E B98D 0020		00001100	1697+ 1698+	VST EPSW	V1, V10UTPUT R2, R0	save exptract psw		

EPSW R2, R0

exptract psw

1751 +

0000211C

B98D 0020

save

MA Ver. LOC	OBJECT CODE	ADDR1	ADDR2	STMI			
LUC	OBJECT CODE	ADDKI	ADDRZ				
					******	****************	
				1927 *	Regist	er equates	
				1928 *****	*****	********************	
		0000000	0000001	1020 BO	FOU		
		0000000 0000001	00000001 00000001	1930 RO 1931 R1		0 1	
		0000001	0000001	1931 R1 1932 R2	FOII	2	
		00000002	00000001	1933 R3	EQU	2 3	
		0000004	0000001	1934 R4	Ε Q U	4	
		0000005	0000001	1935 R5	EQU	5	
		0000006	00000001	1936 R6	EQU	6	
		0000007	00000001	1937 R7	EQU	7	
		00000008 00000009	00000001	1938 R8	EQU	8 9	
		0000009 0000000A	00000001 00000001	1939 R9 1940 R10	EQU EQU EQU EQU EQU EQU EQU EQU EQU EQU	3 10	
		0000000A	0000001	1940 R10 1941 R11	EÕU	10 11 12 13	
		000000C	00000001	1942 R12	EQU EQU EQU	12	
		000000D	0000001	1943 R13	EQU	13	
		000000E	00000001	1944 R14	EQU	14	
		000000F	0000001	1945 R15	EQU	15	
				1947 *****	*****	***************	
				1948 *	******* Regi st	er equates	
					******* Regist ******		
				1948 * 1949 *****	*******	er equates ************************************	
		00000000	00000001	1948 * 1949 ****** 1951 V0	********* EQU	er equates ************************************	
		0000001	0000001	1948 * 1949 ***** 1951 V0 1952 V1	******** EQU EQU	er equates ************************************	
		00000001 00000002	00000001 00000001	1948 * 1949 ****** 1951 V0 1952 V1 1953 V2	********* EQU EQU EQU EQU	er equates ************************************	
		00000001 00000002 00000003	00000001 00000001 00000001	1948 * 1949 ****** 1951 V0 1952 V1 1953 V2 1954 V3	******** EQU EQU EQU EQU EQU	er equates ************************************	
		00000001 00000002	00000001 00000001	1948 * 1949 ****** 1951 V0 1952 V1 1953 V2	******** EQU EQU EQU EQU EQU EQU	er equates ************************************	
		00000001 00000002 00000003 00000004 00000005 00000006	00000001 00000001 00000001 00000001 000000	1948 * 1949 ****** 1951 V0 1952 V1 1953 V2 1954 V3 1955 V4 1956 V5 1957 V6	EQU EQU EQU EQU EQU EQU EQU EQU EQU EQU	er equates ************************************	
		00000001 00000002 00000003 00000004 00000005 00000006	00000001 00000001 00000001 00000001 000000	1948 * 1949 ****** 1951 V0 1952 V1 1953 V2 1954 V3 1955 V4 1956 V5 1957 V6 1958 V7	******** EQU EQU EQU EQU EQU EQU EQU EQU EQU EQ	er equates ************************************	
		00000001 00000002 00000003 00000004 00000005 00000006 00000007 00000008	0000001 00000001 00000001 00000001 000000	1948 * 1949 ****** 1951 V0 1952 V1 1953 V2 1954 V3 1955 V4 1956 V5 1957 V6 1958 V7 1959 V8	******** EQU EQU EQU EQU EQU EQU EQU EQU EQU EQ	er equates ************************************	
		00000001 00000002 00000003 00000004 00000005 00000006 00000007 00000008 00000009	0000001 0000001 0000001 0000001 0000001 000000	1948 * 1949 ****** 1951 V0 1952 V1 1953 V2 1954 V3 1955 V4 1956 V5 1957 V6 1958 V7 1959 V8 1960 V9	******** EQU EQU EQU EQU EQU EQU EQU EQU EQU EQ	er equates ************************************	
		00000001 00000002 00000003 00000004 00000005 00000006 00000007 00000008 00000009	0000001 0000001 0000001 0000001 0000001 000000	1948 * 1949 ****** 1951 V0 1952 V1 1953 V2 1954 V3 1955 V4 1956 V5 1957 V6 1958 V7 1959 V8 1960 V9 1961 V10	******** EQU EQU EQU EQU EQU EQU EQU EQU EQU EQ	er equates ************************************	
		00000001 00000002 00000003 00000004 00000005 00000006 00000007 00000008 00000009 0000000A	0000001 0000001 0000001 0000001 0000001 000000	1948 * 1949 ****** 1951 V0 1952 V1 1953 V2 1954 V3 1955 V4 1956 V5 1957 V6 1958 V7 1959 V8 1960 V9 1961 V10 1962 V11	******** EQU EQU EQU EQU EQU EQU EQU EQU EQU EQ	er equates ************************************	
		00000001 00000002 00000003 00000004 00000005 00000006 00000007 00000008 00000009	0000001 0000001 0000001 0000001 0000001 000000	1948 * 1949 ****** 1951 V0 1952 V1 1953 V2 1954 V3 1955 V4 1956 V5 1957 V6 1958 V7 1959 V8 1960 V9 1961 V10 1962 V11 1963 V12	******** EQU EQU EQU EQU EQU EQU EQU EQU EQU EQ	er equates ************************************	
		00000001 00000002 00000003 00000005 00000006 00000007 00000008 00000009 0000000A 0000000B	0000001 0000001 0000001 0000001 0000001 000000	1948 * 1949 ****** 1951 V0 1952 V1 1953 V2 1954 V3 1955 V4 1956 V5 1957 V6 1958 V7 1959 V8 1960 V9 1961 V10 1962 V11	******** EQU EQU EQU EQU EQU EQU EQU EQU EQU EQ	er equates ************************************	
		00000001 00000002 00000003 00000004 00000005 00000007 00000008 00000009 0000000A 0000000B 0000000C 0000000D 0000000E	0000001 0000001 0000001 0000001 0000001 000000	1948 * 1949 ****** 1951 V0 1952 V1 1953 V2 1954 V3 1955 V4 1956 V5 1957 V6 1958 V7 1959 V8 1960 V9 1961 V10 1962 V11 1963 V12 1964 V13 1965 V14 1966 V15	******** EQU EQU EQU EQU EQU EQU EQU EQU EQU EQ	er equates ************************************	
		00000001 00000002 00000003 00000005 00000006 00000007 00000008 00000009 0000000A 0000000B 0000000C 0000000D 0000000E 0000000F	0000001 0000001 0000001 0000001 0000001 000000	1948 * 1949 ****** 1951 V0 1952 V1 1953 V2 1954 V3 1955 V4 1956 V5 1957 V6 1958 V7 1959 V8 1960 V9 1961 V10 1962 V11 1963 V12 1964 V13 1965 V14 1966 V15 1967 V16	******** EQU EQU EQU EQU EQU EQU EQU EQU EQU EQ	er equates ************************************	
		00000001 00000003 00000004 00000005 00000006 00000008 00000009 0000000A 0000000B 0000000C 0000000D 0000000E 0000000F 00000010 00000011	0000001 0000001 0000001 0000001 0000001 000000	1948 * 1949 ****** 1951 V0 1952 V1 1953 V2 1954 V3 1955 V4 1956 V5 1957 V6 1958 V7 1959 V8 1960 V9 1961 V10 1962 V11 1963 V12 1964 V13 1965 V14 1966 V15 1967 V16 1968 V17	******** EQU EQU EQU EQU EQU EQU EQU EQU EQU EQ	er equates ************************************	
		00000001 00000003 00000004 00000005 00000006 00000008 00000009 0000000A 0000000B 0000000C 0000000D 000000D 000000T 00000011 00000012	0000001 0000001 0000001 0000001 0000001 000000	1948 * 1949 ****** 1951 V0 1952 V1 1953 V2 1954 V3 1955 V4 1956 V5 1957 V6 1958 V7 1959 V8 1960 V9 1961 V10 1962 V11 1963 V12 1964 V13 1965 V14 1966 V15 1967 V16 1968 V17 1969 V18	******* EQU EQU EQU EQU EQU EQU EQU EQU EQU EQ	er equates ************************************	
		00000001 00000003 00000004 00000005 00000006 00000008 00000009 0000000A 0000000B 0000000C 0000000D 0000000E 0000000F 00000010 00000011	0000001 0000001 0000001 0000001 0000001 000000	1948 * 1949 ****** 1951 V0 1952 V1 1953 V2 1954 V3 1955 V4 1956 V5 1957 V6 1958 V7 1959 V8 1960 V9 1961 V10 1962 V11 1963 V12 1964 V13 1965 V14 1966 V15 1967 V16 1968 V17	******** EQU EQU EQU EQU EQU EQU EQU EQU EQU EQ	er equates ************************************	

	0. 7. 0 zvector-e6				1 1111			18 Jun 2024 1	2. 20. 00	 44
LOC	OBJECT CODE	ADDR1	ADDR2	STMI						
		00000016	00000001	1973 V22	EQU	22				
		0000018	00000001	1974 V23 1975 V24	EQU EQU	23 24				
		00000019	00000001	1976 V25	EQU	25				
		0000001A 0000001B	00000001	1977 V26 1978 V27	EQU EQU	26 27				
		000001C	00000001	1979 V28	EQU	28				
		0000001D 0000001E	00000001	1980 V29 1981 V30	EQU EQU EQU EQU EQU EQU EQU EQU	22 23 24 25 26 27 28 29 30				
		0000001F	00000001	1982 V31	EQU	31				
				1983 1984	END					
				1001	LIND					

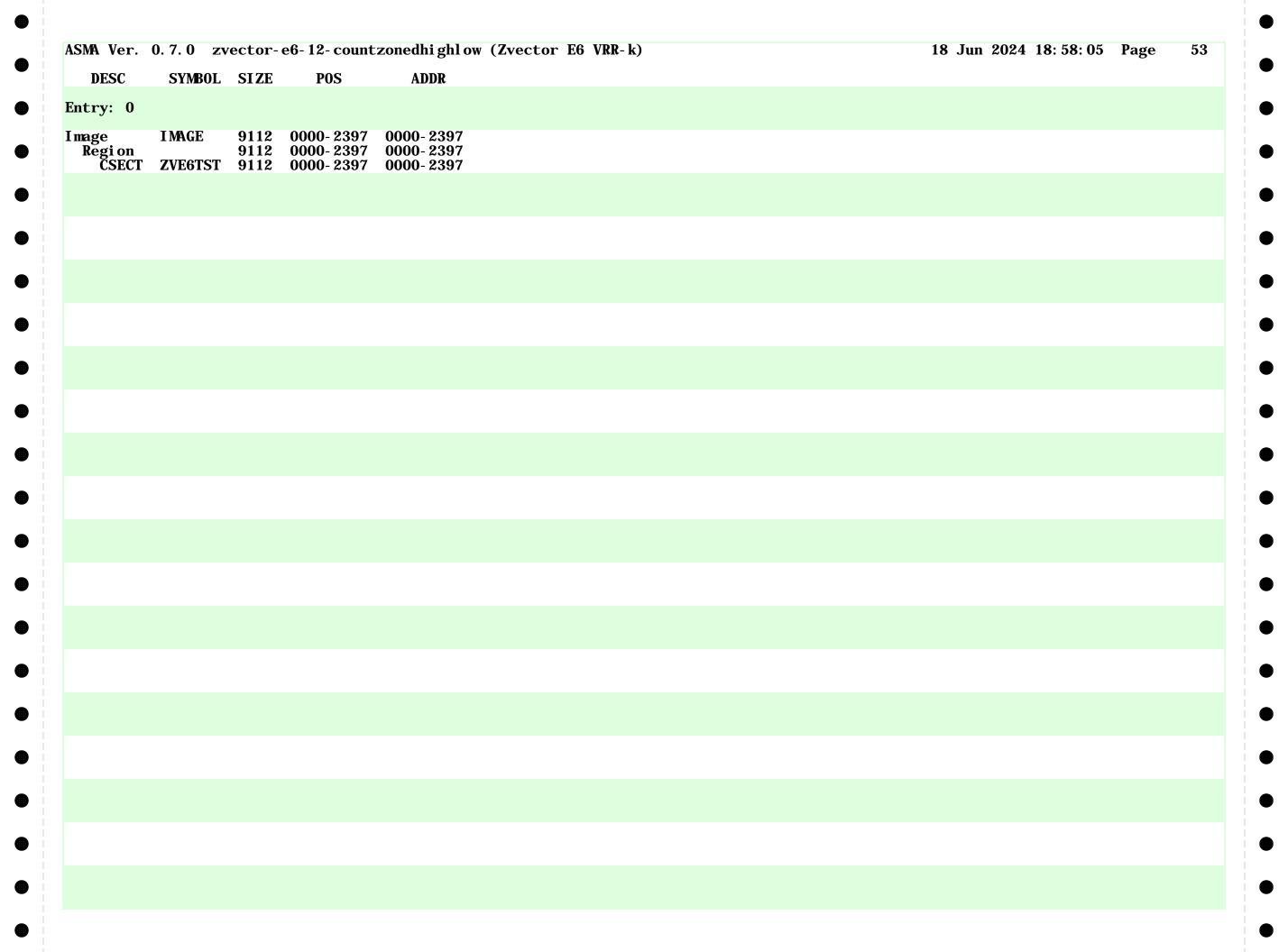
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES											
EGI N	I	00000200	2	153	118	149	150	151									
C	U	8000000	1	514	264												
CFOUND	X	000010E0	1	486	251	271											
CMASK	U	00000009	1	515	222												
CMSG	U	0000033A	1	240	234												
CPRTEXP	C	0000108A	1	466	268												
CPRTG0T	C	0000109A	1	469	275												
CPRTLI NE	Č	00001047	16	461	471	278											
CPRTLNG	Ŭ	00000055	1	471	277	~											
CPRTNAME	Č	00001074	8	464	261												
CPRTNUM	$\ddot{\mathbf{c}}$	00001057	3	462	259												
CPSW	F	00001007 000010D8	4	485	248	646	672	698	724	750	778	804	830	856	882	910	936
CIOW	_	00001000	-	100	962	988	1014	1040	1068	1094	1120	1146	1172	1198	1235	1261	1288
					1314	1341	1367	1394	1420	1461	1487	1514	1540	1567	1593	1620	1646
					1673	1699	1726	1752	1779	1805	1832	1858	1340	1307	1000	1020	1040
TI DA	E	00000540	4	407					1779	1003	1032	1000					
TLRO ECNUM	F	0000054C	4	407	163 256	164	165 265	166 267	979	974	900	202	200	201			
ECNUM	C	000010C8	16	481	256	258	265	267	272	274	290	292	299	301			
6TEST	4	00000000	28	509	214												
6TESTS	F	000022D0	4	1870	205	000	070	001	000								
DIT	X	0000109C	18	476	257	266	273	291	300								
NDTEST	Ū	00000424	1	321	210												
0J	I	00000530	4	397	198	324											
OJPSW	D	00000520	8	395	397												
AI LCONT	U	00000414	1	311	281												
AI LED	F	00001000	4	437	313	322											
AI LMSG	U	000003CA	1	288	229												
AI LPSW	D	00000538	8	399	401												
AI LTEST	Ι	00000548	4	401	325												
B0001	F	000002A0	8	182	186	187	189										
MAGE	1	00000000	9112	0													
	Ū	00000400	1	420	421	422	423										
64	Ŭ	00010000	ī	422			120										
В	Ŭ	00000007	1	513	242	298											
B	Ŭ	00100000	1	423	~ 1~	200											
SG .	Ť	00000468	4	357	197	340											
SGCMD	Ċ	00000408 000004B6	9	387	370	371											
SGMSG	Č	000004B6 000004BF	95	388	364	385	362										
	t T					303	302										
SGMVC SCOV	I T	000004B0	6	385	368												
SGOK SCRET	I T	0000047E	2	366	363	077											
SGRET ECCAVE	1	0000049E	4	381	374	377											
SGSAVE	ľ	000004A4	4	384	360	381											
EXTE6	U	000002F4	1	207	232	316											
PNAME	C	000000A	8	517	261	295											
AGE	U	00001000	1	421	A ===	~~-	A = =				~~-	A :					0.05
RT3	C	000010B2	18	479	257	258	259	266	267	268	273	274	275	291	292	293	300
					301	302											
RTLINE	C	00001008	16	446	453	305											
RTLNG	U	000003F	1	453	304												
RTMB	C	00001044	2	451	302												
RTNAME	C	00001033	8	449	295												
RTNUM	Č	00001018	3	447	293												
0	Ŭ	00000000	1	1930	112	163	166	186	188	189	190	195	212	216	217	277	304
~	· ·	300000	•	1000	312	313	339	341	357	360	362	364	366	381	$\tilde{645}$	$\tilde{671}$	697
					723	749	777	803	829	855	881	909	935	961	987	1013	1039
					1067	1093	1119	1145	1171	1197	1234	1260	1287	1313	1340	1366	1393
					1419	1460	1486	1513	1539	1566	1592	1619	1645	1672	1698	1725	1353 1751

ASMA Ver. 0.7.0	zvector	- e6- 12- coun	tzonedhi ghl	ow (Zv	ector	E6 VRR	- k)						18 Jun	2024	18: 58: (05 Pa	ıge	46
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES												
R1	U	0000001	1	1931	1778 196 278	1804 222 305	1831 223 322	1857 224 323	227 371	228 385	241	242	243	248	249	250	251	
R10 R11	U U	0000000A 0000000B	1 1	1940 1941	151 219	160 220	161 647	673	699	725	751	779	805	831	857	883	911	
					937 1289 1647	963 1315 1674	989 1342 1700	1015 1368 1727	1041 1395 1753	1069 1421 1780	1095 1462 1806	1121 1488 1833	1147 1515 1859	1173 1541	1199 1568	1236 1594	1262 1621	
R12 R13 R14	U U U	0000000C 0000000D 0000000E	1 1 1	1942 1943 1944	205	208	231	315										
R15 R1FUDGE R1OUTPUT	U X F	0000000F 000010E8 00001120	1 8 8	1945 492 496	279	306	334	344	345									
R2	Ū	00000002	1	1932	197 299 645	255 339 646	256 340 671	263 341 672	264 358 697	265 360 698	270 366 723	271 367 724	272 368 749	289 370 750	290 376 777	297 381 778	298 382 803	
					804 987 1146	829 988 1171	830 1013 1172	855 1014 1197	856 1039 1198	881 1040 1234	882 1067 1235	909 1068 1260	910 1093 1261	935 1094 1287	936 1119 1288	961 1120 1313	962 1145 1314	
					1340 1514 1698	1341 1539 1699	1366 1540 1725	1367 1366 1726	1393 1567 1751	1394 1592 1752	1419 1593 1778	1420 1619 1779	1460 1620 1804	1461 1645 1805	1486 1646 1831	1487 1672 1832	1514 1513 1673 1857	
R3 R4	U U	00000003 00000004	1 1	1933 1934	1858													
R5	U	0000005	1	1935	208 733 913	209 753 919	214 761 939	335 781 945	343 787 965	629 807 971	649 813 991	655 833 997	675 839 1017	681 859 1023	701 865 1043	707 885 1051	727 893 1071	
					1077 1264 1444	1097 1271 1464	1103 1291 1470	1123 1297 1490	1129 1317 1497	1149 1324 1517	1155 1344 1523	1175 1350 1543	1181 1370 1550	1201 1377 1570	1218 1397 1576	1238 1403 1596	1244 1423 1603	
					1623	1629	1649	1656	1676 1841	1682			1729	1735		1762	1782	
R6 R7	U	00000006 00000007	1	1936 1937														
R8 R9	Ŭ U	00000007 00000008 00000009	1 1	1937 1938 1939	149 150	153 157	154 158	155 160	157									
RE1 RE10 RE11	F F	000011C8 00001528 00001588	4	648 884 912	638 874 902	642 878 906												
RE12 RE13	F F	000015E8 00001648	4	938 964	928 954	932 958												
RE14 RE15 RE16	F F F	000016A8 00001708 00001768	4 4 4	990 1016 1042	980 1006 1032	984 1010 1036												
RE17 RE18	F F	000017C8 00001828	4	1070 1096	1060 1086	1064 1090												
RE19 RE2 RE20	F F F	00001888 00001228 000018E8	4 4 4	1122 674 1148	1112 664 1138	1116 668 1142												
RE21 RE22	F F	00001948 000019A8	4 4	1174 1200	1164 1190	1168 1194												
RE23 RE24 RE25	F F F	00001A08 00001A68 00001AC8	4 4 4	1237 1263 1290		1231 1257 1284												

CVMDAT		- e6- 12- coun	· ·					18 Jun 2	Page	4
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERE					
26	F	00001B28	4			1310				
27	F	00001B88	4	1343		1337				
28	F	00001BE8	4	1369		1363				
29 3	F F	00001C48 00001288	4	1396 700	1386 690	1390 694				
30	F	00001288	4	1422		1416				
31	F	00001CA8	4	1463		1457				
32	F	00001D00	4	1489		1483				
33	F	00001DC8	$\overline{4}$	1516		1510				
34	${f F}$	00001E28	4	1542		1536				
35	F	00001E88	4	1569		1563				
36	F	00001EE8	4	1595		1589				
37	<u>F</u>	00001F48	4	1622		1616				
38	F	00001FA8	4	1648		1642				
39	F	00002008	4	1675		1669				
4	F	000012E8	4	726	716	720				
40 41	F	00002068 000020C8	4	1701 1728		1695 1722				
41 42	F F	00002008	4 4	1728		1748				
43	F	00002128	4	1781		1775				
44	F	00002168	4	1807		1801				
45	F	00002248	$\overline{4}$	1834		1828				
46	$ar{\mathbf{F}}$	000022A8	$ar{4}$	1860		1854				
5	F	00001348	4	752	742	746				
6	F	000013A8	4	780	770	774				
7	F	00001408	4	806	796	800				
8	$\underline{\mathbf{F}}$	00001468	4	832	822	826				
9	F	000014C8	4	858	848	852				
A1	A	000011A0	4	638						
A10 A11	A	00001500 00001560	4	874 902						
A12	A A	00001360 000015C0	4	902						
A13	Δ	00001360	4	954						
A14	Ä	00001620	4	980						
A15	Ā	000016E0	$ar{4}$	1006						
A16	A	00001740	4	1032						
A17	A	000017A0	4	1060						
A18	A	00001800	4	1086						
A19	A	00001860	4	1112						
A2	A	00001200	4	664						
A20	A	000018C0	4	1138						
A21	A	00001920	4	1164						
A22 A23	A A	00001980 000019E0	4	1190 1227						
123 124	A A	000019E0 00001A40	4	1253						
A25	A	00001A40	4	1280						
A26	Ä	00001B00	4	1306						
A27	A	00001B60	4	1333						
A28	A	00001BC0	4	1359						
A29	A	00001C20	4	1386						
A3	A	00001260	4	690						
A30	A	00001C80	4	1412						
A31	A	00001CE0	4	1453						
A32	Α	00001D40	4	1479						
A33	A	00001DA0	4	1506						

SYMB0L	ТҮРЕ	VALUE	LENGTH	DEFN	REFER	ENCES												
/2	U	0000002	1	1953	1671 642 801 984	1697 643 826 985	1724 668 827 1010	1750 669 852 1011	1777 694 853 1036	1803 695 878 1037	1830 720 879 1064	1856 721 906 1065	746 907 1090	747 932 1091	774 933 1116	775 958 1117	800 959 1142	
					1143 1337 1511 1695 1855	1168 1338 1536 1696	1169 1363 1537 1722	1194 1364 1563 1723	1195 1390 1564 1748	1231 1391 1589 1749	1232 1416 1590 1775	1257 1417 1616 1776	1258 1457 1617 1801	1284 1458 1642 1802	1285 1483 1643 1828	1310 1484 1669 1829	1311 1510 1670 1854	
720 721	U U	00000014 00000015	1	1971 1972	1000													
722 723	Ü	00000016 00000017	1	1973 1974														
/24	Ü	0000018	1	1975														
/25 /26	U U	00000019 0000001A	1 1	1976 1977														
/27 /28	U U	0000001B 0000001C	1	1978 1979														
/29	U	000001D	1	1980														
/3 /3 0	U U	00000003 0000001E	1	1954 1981														
731 74	U U	0000001F 00000004	1	1982 1955														
75 76	U	0000005	1	1956														
7	U U	00000006 00000007	1	1957 1958														
/8 /9	U U	00000008 00000009	1	1959 1960														
K 0001	Ū	000002C8	1	185	173	186												
(1 (10	F F	000011A4 00001504	4 4	640 876	630 866													
K11 K12	F F	00001564 000015C4	4	904 930	894 920													
X13	F	00001624	4	956	946													
(14) (15)	F	00001684 000016E4	4	982 1008	972 998													
K16 K17	F F	00001744 000017A4	4 4	1034 1062	1024 1052													
X18	F	00001804	4	1088 1114	1078													
(19 (2	F F	$00001864 \\ 00001204$	4 4	666	1104 656													
K20 K21	F F	000018C4 00001924	4	1140 1166	1130 1156													
Z 22 Z 23	F	00001984 000019E4	4	1192 1229	1182 1219													
K24	F E	00001A44	4	1255	1245													
(25 (26	F F	00001AA4 00001B04	4	1282 1308	1272 1298													
(27 (28	F	00001B64 00001BC4	4	1335 1361	1325 1351													
Z29	<u>F</u>	00001C24	4	1388	1378													
(3 (30	F F	00001264 00001C84	4 4	692 1414	682 1404													
(31 (32	F F	00001CE4 00001D44	4	1455 1481	1445 1471													
132 133	F	00001D44 00001DA4	4 4	1481 1508	1471 1498													

MACRO	DEFN	REFEREN	ICES															
CHECK TTABLE	63 585	172 1871																
R_K	534	627 1075 1548	653 1101 1574	679 1127 1601	705 1153 1627	731 1179 1654	759 1216 1680	785 1242 1707	811 1269 1733	837 1295 1760	863 1322 1786	891 1348 1813	917 1375 1839	943 1401	969 1442	995 1468	1021 1495	1049 1521



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STMI	FILE NAME	
/home/tn52	9/sharedvfp/tests/zvector-e6-12-countzonedhighlow.asm	
** NO ERRORS FOU	IND **	
NO ENIONS 100		