OC	OBJECT CODE	ADDR1	ADDR2	STMF
	020201 0022		.12210	2 ********************
				$\overset{\boldsymbol{z}}{3}$ *
				4 * Zvector E6 instruction tests for VRI-f encoded:
				5 * 6 * F671 VAP - VECTOR AND DECLMAI
				6 * E671 VAP - VECTOR ADD DECIMAL 7 * E673 VSP - VECTOR SUBTRACT DECIMAL
				8 * E678 VMP - VECTOR MULTIPLY DECIMAL
				9 * E679 VSDP - VECTOR MULTIPLY AND SHIFT DECIMAL
				10 * E67A VDP - VECTOR DIVIDE DECIMAL 11 * E67B VRP - VECTOR REMAINDER DECIMAL
				12 * E67E VSDP - VECTOR SHIFT AND DIVIDE DECIMAL
				13 *
				14 * James Wekel June 2024 15 ************************************
				15 ************************************
				17 *********************
				18 *
				19 * basic instruction tests 20 *
				20 " 21 ************************************
				22 * This program tests proper functioning of the z/arch E6 VRI-f vector
				23 * packed decimal arithmetic instructions. Exceptions are not tested.
				24 * 25 * PLEASE NOTE that the tests are very SIMPLE TESTS designed to catch
				26 * obvious coding errors. None of the tests are thorough. They are
				27 * NOT designed to test all aspects of any of the instructions.
				28 * 29 **********************************
				30 *
				31 * *Testcase VECTOR E6 VRI-f packed arithmetic instructions
				32 * *
				33 * * Zvector E6 tests for VRI-f encoded packed decimal arithmetic instructions:
				35 * *
				36 * * E671 VAP - VECTOR ADD DECIMAL
				37 * * E673 VSP - VECTOR SUBTRACT DECIMAL 38 * * E678 VMP - VECTOR MULTIPLY DECIMAL
				39 * * E679 VMSP - VECTOR MULTIPLY AND SHIFT DECIMAL
				40 * * E67A VDP - VECTOR DIVIDE DECIMAL
				41 * * E67B VRP - VECTOR REMAINDER DECIMAL
				42 * * E67E VSDP - VECTOR SHIFT AND DIVIDE DECIMAL 43 * *
				44 * * #
				45 * * # This tests only the basic function of the instruction.
				46 * * # Exceptions are NOT tested. 47 * * #
				48 * *
				49 * mainsize 2
				50 * numcpu 1
				51 * sysclear 52 * archlvl z/Arch
				52 · archivi z/arch 53 *
				54 * loadcore "\$(testpath)/zvector-e6-05-packarith.core" 0x0
				55 * 56 * diag8cmd enable # (needed for messages to Hercules console)

.0 C	OBJECT CODE	ADDR1	ADDR2	STM							
				58 * 50 *	di ag8cmd	di sabl e	# (reset bac	ck to defa	lt)		
				60 * 61 ***	* Done ******	*****	******	*****	*****	******	<***
				V -							

ASMA Ver.	0. 7. 0 zvector-e6-	05- packari t	h (Zvector	E6 VR	I-f packe	ed arit	thmetic)	18 Jun 2024 18: 57: 20 Page
LOC	OBJECT CODE	ADDR1	ADDR2	STM				
				118 119 120	*	Low co	ore PSWs	******************************
0000000		00000000 00000000	00004EF7	122 123 124		START USING	0 ZVE6TST, RO	Low core addressability
		00000140	0000000		SVOLDPSW	EQU	ZVE6TST+X' 140'	z/Arch Supervisor call old PSW
	00000001 80000000 00000000 00000200	0000000	000001A0	127 128 129		ORG DC DC	ZVE6TST+X' 1A0' X' 0000000180000000' AD(BEGIN)	z/Archi tecure RESTART PSW
	00020001 80000000 00000000 0000DEAD	000001B0	000001D0	131 132 133		ORG DC DC	ZVE6TST+X' 1D0' X' 0002000180000000' AD(X' DEAD')	z/Architecure PROGRAM CHECK PSW
000001E0		000001E0	00000200	135 136		ORG	ZVE6TST+X' 200'	Start of actual test program

		•	•	-		•	S
LOC	OBJECT CODE	ADDR1	ADDR2	STMI			
				010 *****	*****	***	*********
				213 *	1. 4. 4. 4. 4. 4.	Do tests in the	
				214 *******	*****	******	**********
00000000	X 0.00		00000700	215	_	D40 A (FOREGER)	
000002D8	58C0 8368		00000568	216 217	L	R12, = $A(E6TESTS)$	get table of test addresses
		000002DC	0000001	218 NEXTE6	EQU	*	
000002DC	5850 C000	000000	00000000	219	L	R5, 0(0, R12)	get test address
000002E0	1255		00000400	220	LTR	R5, R5	have a test?
000002E2	4780 8230		00000430	221 222	BZ	ENDTEST	done?
000002E6	B982 0000			223	XGR	RO, RO	no cc error
000000		0000000		224	HOTNO	EOFECE D	
000002EA		0000000		225 226	USING	E6TEST, R5	
000002EA	4800 5004		0000004	227	LH	RO, TNUM	save current test number
000002EE	5000 8E04		00001004	228	ST	RO, TESTING	for easy reference
000002F2	E710 8F28 0006		00001128	229 230	VL	V1, V1FUDGE	
000002F2 000002F8	58B0 5000		00001128	231	L	R11, TSUB	get address of test routine
000002FC	05BB			232		R11, R11	do test
000009EE	E310 500A 0076		0000001	233	T D	D1 CCMACK	(foilume CC mode)
000002FE 00000304	8910 0004		0000000A 00000004	234 235	LB SLL	R1, CCMASK R1, 4	(failure CC mask) (shift to BC instr CC position)
00000308	4410 8124		00000324	236	EX	R1, TESTCC	fail if
		0000000	0000001	237	ГОИ	*	
0000030C	E310 502C 0014	0000030C	00000001 0000002C	238 TESTREST 239	EQU LGF	* R1, READDR	get address of expected result
00000300	D50F 8F08 1000	00001108	00000020	240	CLC	V10UTPUT, O(R1)	valid?
00000318	4770 81B8		000003B8	241	BNE	FAILMSG	no, issue failed message
0000031C	41C0 C004		0000004	242 243	TΛ	D19 4(0 D19)	next test address
00000310	47F0 80DC		0000004 000002DC	243 244	LA B	R12, 4(0, R12) NEXTE6	next test address
				245			
00000324	4700 8128		00000328	246 TESTCC	BC	O, CCMSG	(fail if unexpected condition code)

000004B4 000004C0	D200 82CF 1000	000004CF	00000000	402 MSGMVC	MVC	MSGMSG(0), 0(R1)	Registers save area Executed instruction
000004C6 000004CF	D4E2C7D5 D6C8405C 40404040 40404040			405 MSGCMD 406 MSGMSG 407	DC DC	C' MSGNOH * ' CL95' '	*** HERCULES MESSAGE COMMAND *** The message text to be displayed

ASMA Ver.	0. 7. 0 zvector- e6- 0	5- packari tl	n (Zvector	E6 VR	I-f packe	ed arit	chmetic)	18 Jun 2024 18: 57: 20 Page	12
LOC	OBJECT CODE	ADDR1	ADDR2	STMT					
				409 410 411	****** * ******	****** Normal *****	**************************************	**************************************	
00000530	00020001 80000000			413	E0JPSW	DC	OD' O' , X' 000200	018000000', AD(0)	
00000540	B2B2 8330		00000530	415	ЕОЈ	LPSWE	E0JPSW	Normal completion	
00000548	00020001 80000000			417	FAI LPSW	DC	OD' O' , X' 000200	018000000', AD(X'BAD')	
00000558	B2B2 8348		00000548	419	FAI LTEST	LPSWE	FAILPSW	Abnormal termination	
				422 423	* ******	****** Worki 1 *****	**************************************		
0000055C 00000560				425 426	CTLRO	DS DS	F F	CRO	
00000564 00000564 00000568 0000056C 00000570	00004D0C 00000001			428 429 430 431 432		LTORG	, =F' 2' =A(E6TESTS) =F' 1' =XL4' 3'	Literals pool	
00000574	0000 0000 005F			433 434 435			=H' 0' =AL2(L' MSGMSG)		
				436 437	*	some o	constants		
		00001000 00010000	00000001 00000001 00000001 00000001	438 439 440 441	PAGE K64	EQU EQU EQU	1024 (4*K) (64*K) (K*K)	One KB Size of one page 64 KB 1 MB	
			00000001 00000001		REG2PATT REG2LOW		X' AABBCCDD' X' DD'	Polluted Register pattern (last byte above)	

.0C	OBJECT CODE	ADDR1	ADDR2	STMT			
				549 *****	*****	******	************
					Macros t	o help build test	tables
				551 * 552 *	VRIFMa	cro to help build	test tables
				553 *****	*****	*****	·*************************************
				554	MACRO		1 0NF 0CC
				555 556 .*	VKI_F	' &INST, &V2, &V3, &I4	&INST - VRI-f instruction under test
				557 .*			&v2 - binary DW value for V2
				558 . * 559 . *			&v3 - binary DW value for V3 &i4 - i4 field
				560 · *			&mő - mő field
				561 . *			&CC - expected CC
				562 . * 563	LCLA	&XCC(4) &CC has	mask values for FAILED condition codes
				564 &XCC(1) SETA	7	CC != 0
				565 &XCC(2 566 &XCC(3			CC != 1 CC != 2
				567 &XCC(4	,		CC != 2 CC != 3
				568			
				569 570 &TNUM	GBLA SETA	&TNUM &TNUM+1	
				571			
				572 573	DS USI NG	0FD * P5	base for test data and test routine
				573 574	USING	, NJ	base for test data and test foutflie
				575 T&TNUM		A(X&TNUM)	address of test routine
				576 577	DC DC	H' &TNUM' X' 00'	test number
				578	DC	HL1' &I 4'	i 4
				579 580	DC DC	HL1' &M5' HL1' &CC'	m5 cc
				581	DC	HL1' &XCC(&CC+1)'	cc failed mask
				582 V2_&TN		FD' &V2'	binary value for v2 packed decimal
				583 V3_&TN 584	DC DC	FD' &V3' CL8' &I NST'	binary value for v3 packed decimal instruction name
				585	DC	A(16)	result length
				586 REA&TN 587 . *	UM DC	A(RE&TNUM)	result address
				588 *			INSTRUCTION UNDER TEST ROUTINE
				589 X&TNUM		OF	
				590 591	LG CVDG	R2, V2_&TNUM R2, V2PACKED	convert v2
				592	VL	V2, V2PACKED	
				593 594	LG	R2, V3_&TNUM	convert v3
				595	CVDG	R2, V3PACKED	
				596 507	VL	V3, V3PACKED	
				597 598	&I NST	V1, V2, V3, &I4, &M5	test instruction
				599			_
				600 601		V1, V10UTPUT R2, R0	save result
				602	ST	R2, CCPSW	exptract psw to save CC
				603 604	BR	R11	return

LOC	0.7.0 zvector-e6- OBJECT CODE	ADDR1	ADDR2	STMI	- Fach			10	Jun 2024 18: 57: 20	- 5°	_•
				605 1	RE&TNUM						
				606 607 608		DROP MEND	R5				

ASMA Ver.	0.7.0 zvector-e6-0	05- packari t	h (Zvector	E6 VRI-f pack	ked ari	thmetic)	18 Jun 2024 18: 57: 20 Page	19
LOC	OBJECT CODE	ADDR1	ADDR2	STMI				
				634 *	F6 VR	I F tests	*******************************	
00001188		00000000	00004EF7	636 ZVE6TST 637		,		
				639 640 *	PRINT	' DATA		
				641 * 642 * 643 *	E671 E673 E678	VSP - VECTO	OR ADD DECIMAL OR SUBTRACT DECIMAL	
				644 * 645 *	E679 E67A	VMSP - VECTO VDP - VECTO	OR MULTIPLY DECIMAL OR MULTIPLY AND SHIFT DECIMAL OR DIVIDE DECIMAL	
				646 * 647 * 648	E67B E67E	VSDP - VECTO	OR REMAINDER DECIMAL OR SHIFT AND DIVIDE DECIMAL	
				649 * 650 * 651	VRI_F	instr, v2, v3, i followed by	14, m5, cc 16 byte expected result	
				652 * 653 * VAP 654 *	- VE	CTOR ADD DECIM	MAL	
00001188				655 * VAP si 656 657+		CC checks VAP, +10, +12, 7 OFD	7, 1, 2	
00001188 00001188	000011B8 0001	00001188		658+ 659+T1 660+		*, R5 A(X1) H' 1'	base for test data and test routine address of test routine test number	
0000118E 0000118F 00001190	00 07			661+ 662+ 663+	DC DC DC	X' 00' HL1' 7' HL1' 1'	i 4 m5	
00001191 00001192				664+ 665+ 666+V2_1	DC DC DC	HL1' 2' HL1' 13' FD' +10'	cc cc failed mask binary value for v2 packed decimal	
000011A0 000011A8	0000000 0000000C E5C1D740 40404040 00000010			667+V3_1 668+ 669+	DC DC DC	FD' +12' CL8' VAP' A(16)	binary value for v3 packed decimal instruction name	
000011B4	0000010 000011F4			670+REA1 671+* 672+X1	DC	A(RE1)	result length result address INSTRUCTION UNDER TEST ROUTINE	
	E320 5010 0004 E320 8F57 002E E720 8F57 0006		00001198 00001157 00001157	672+X1 673+ 674+ 675+	DS LG CVDG VL	OF R2, V2_1 R2, V2PACKED V2, V2PACKED	convert v2	
000011CA 000011D0	E320 5018 0004 E320 8F67 002E E730 8F67 0006		00001137 00001140 00001167 00001167	676+ 677+ 678+	LG	R2, V3_1 R2, V3PACKED V3, V3PACKED	convert v3	
000011DC 000011E2	E612 3010 7071 E710 8F08 000E B98D 0020		00001107	679+ 680+ 681+	VAP VST	V1, V2, V3, 7, 1 V1, V10UTPUT R2, R0	test instruction save result exptract psw	
000011EC 000011F0 000011F4	5020 8EE8 07FB		000010E8	682+ 683+ 684+RE1	ST BR DC	R2, CCPSW R11 OF	to save CC return	
000011F4 000011F4 000011FC	00000000 00000000 00000000 0000022C			685+ 686	DROP DC	R5	0000000000000000000022C'	

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LOC	OBJECT CODE	ADDR1	ADDR2	STMI			
				687 688	VRI F	VAP, - 10, +12, 7, 1, 2	
0001208				689 +	DS DS	OFD	
0001208		00001208		690 +	USING		base for test data and test routine
001208	00001238			691+T2	DC	A(X2)	address of test routine
00120C	0002			692+	DC	H' 2'	test number
00120E	00			693+ 694+	DC DC	X' 00' HL1' 7'	: 4
00120F 001210	07 01			695+	DC DC	HL1'1'	i 4 m5
01210	02			696+	DC	HL1' 2'	CC
001212	OD			697 +	DC	HL1' 13'	cc failed mask
01218	FFFFFFFF FFFFFF6			698+V2_2	DC	FD' - 10'	binary value for v2 packed decimal
001220	00000000 0000000C			699+V3_2	DC	FD' +12'	binary value for v3 packed decimal
001228	E5C1D740 40404040			700+	DC	CL8' VAP'	instruction name
001230 001234	00000010 00001274			701+ 702+REA2	DC DC	A(16) A(RE2)	result length result address
101234	00001274			702+ REA 2 703+*	ЪС	A(RE2)	INSTRUCTION UNDER TEST ROUTINE
01238				704+X2	DS	0F	INCLUDED ON THE ILDI MOUTHE
001238	E320 5010 0004		00001218	705 +	LG	R2, V2_2	convert v2
00123E	E320 8F57 002E		00001157	706 +		R2, V2PACKED	
001244	E720 8F57 0006		00001157	707+	VL LC	V2, V2PACKED	
00124A	E320 5018 0004		00001220	708+	LG	R2, V3_2	convert v3
01250 01256	E320 8F67 002E E730 8F67 0006		00001167 00001167	709+ 710+	CVDG VL	R2, V3PACKED V3, V3PACKED	
0125C	E612 3010 7071		00001107	710+ 711+		V1, V2, V3, 7, 1	test instruction
01262	E710 8F08 000E		00001108	712+	VST	V1, V10UTPUT	save result
01268	B98D 0020			713+		R2, R0	exptract psw
0126C	5020 8EE8		000010E8	714+	ST	R2, CCPSW	to save CC
01270	07FB			715+	BR	R11	return
01274				716+RE2	DC	OF	
01274 01274	00000000 00000000			717+ 718	DROP DC	R5	000000000000000002C'
01274 0127C	0000000 0000000 00000000 0000002C			/10	DС	AL10 00000000000000000000000000000000000	00000000000000000000000000000000000000
012.0				719			
				720		VAP, +10, -12, 7, 1, 1	
01288		00004000		721+	DS	OFD	
01288	00001970	00001288		722+	USING		base for test data and test routine
01288 0128C	000012B8 0003			723+T3 724+	DC DC	A(X3) H' 3'	address of test routine test number
0128E	0003			725+	DC DC	X' 00'	Cest number
0128F	07			726+	DC	HL1' 7'	i 4
01290	01			727+	DC	HL1' 1'	m5
01291	01			728+	DC	HL1' 1'	cc
01292	0B			729+	DC	HL1' 11'	cc failed mask
01298 012A0	00000000 0000000A FFFFFFF FFFFFF4			730+V2_3 731+V3_3	DC DC	FD' +10' FD' - 12'	binary value for v2 packed decimal binary value for v3 packed decimal
012A0	E5C1D740 40404040			731+V3_3 732+	DC	CL8' VAP'	instruction name
012B0	00000010			733+	DC	A(16)	result length
012B4	000012F4			734+REA3 735+*	DC	A(RE3)	result address INSTRUCTION UNDER TEST ROUTINE
012B8				736+X3	DS	0F	
0012B8	E320 5010 0004		00001298	737+	LG	R2, V2_3	convert v2
0012BE	E320 8F57 002E		00001157	738+		R2, V2PACKED	
0012C4	E720 8F57 0006		00001157	739+	VL LC	V2, V2PACKED	convent v2
0012CA 0012D0	E320 5018 0004 E320 8F67 002E		000012A0 00001167	740+ 741+	LG CVDG	R2, V3_3 R2, V3PACKED	convert v3
OUIADO	LUAU OFU! UUAE		00001107	/ 11	CADA	N≈, VOI ACKED	

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LOC	OBJECT CODE	ADDR1	ADDR2	STMI			
00001488				850+	DS	OFD	
00001488		00001488		851+	USING		base for test data and test routine
		00001400					
00001488				852+T7	DC	A(X7)	address of test routine
0000148C				853+	DC	H' 7'	test number
0000148E				854+	DC	X' 00'	
0000148F				855+	DC		i 4
00001490				856 +	DC	HL1' 1'	шб
00001491	02			857+	DC	HL1' 2'	cc
00001492	OD			858+	DC		cc failed mask
				859+V2_7	DC	FD' +99999999999999)999' \
00001498	01634578 5D89FFFF			+			binary value for v2 packed decimal
000014A0				860+V3_7	DC	FD' +1'	binary value for v3 packed decimal
000014A8				861+	DC	CL8' VAP'	instruction name
000014B0				862+	DC		result length
000011B0				863+REA7	DC	A(RE7)	result address
00001404	00001414			864+*	ЪС	A(RLI)	INSTRUCTION UNDER TEST ROUTINE
000014B8				865+X7	DS	0F	INSTRUCTION UNDER TEST RUUTINE
000014B8			00001498	866+			convert v9
000014BE				867+	LG CVDG		convert v2
			00001157			R2, V2PACKED	
000014C4			00001157	868+	VL	V2, V2PACKED	
000014CA			000014A0	869+	LG		convert v3
000014D0			00001167	870+		R2, V3PACKED	
000014D6			00001167	871+	VL	V3, V3PACKED	
000014DC				872+			test instruction
000014E2			00001108	873+	VST	V1, V10UTPUT	save result
000014E8				874+	EPSW	R2, R0	exptract psw
000014EC			000010E8	875+	ST	R2, CCPSW	to save CC
000014F0	07FB			876 +	BR		return
000014F4				877+RE7	DC	OF	
000014F4				878+		R5	
000014F4				879	DC	XL16' 00000000000000)10000000000000000C'
000014FC	0000000 000000C						
				880			
				881	VRI_F	VAP, +9999999999999	9999, +10000000000000000, 159, 1, 2
00001508				882+	DS	OFD	
00001508		00001508		883+	USING	*, R5	base for test data and test routine
00001508	00001538			884+T8	DC	A(X8)	address of test routine
0000150C	0008			885+	DC	H'8'	test number
0000150E				886+	DC	X' 00'	
0000150F				887+	DC		i 4
00001510				888+	DC		шб
00001511				889+	DC		cc
00001512				890+	DC		cc failed mask
00001012	02			891+V2 8	DC	FD' +99999999999999	
00001518	01634578 5D89FFFF			+	DC	12 100000000000000	binary value for v2 packed decimal
0001010	JIJJIJI ODOJIII			892+V3_8	DC	FD' +100000000000000	
00001520	002386F2 6FC10000			+ +	D 0	12 110000000000000000000000000000000000	binary value for v3 packed decimal
00001528				893+	DC	CL8' VAP'	instruction name
00001528				894+	DC DC		result length
00001530				895+REA8	DC DC	A(RE8)	result address
00001334	00001374			896+*	DC		INSTRUCTION UNDER TEST ROUTINE
00001520				897+X8	DC	0F	INSTRUCTION UNDER TEST RUUTINE
00001538			00001510		DS		convent v2
00001538			00001518	898+	LG		convert v2
0000153E			00001157	899+	CVDG	R2, V2PACKED	
00001544			00001157	900+	VL LC	V2, V2PACKED	
0000154A	E320 5018 0004		00001520	901+	LG	R2, V3_8	convert v3

DC

HL1'9'

m5

954 +

00001610

test instruction

to save CC

save result

return

exptract psw

V3, V3PACKED

V1, V10UTPUT

R2, CCPSW

R2, R0

R11

V1, V2, V3, 159, 13

VL

VAP

VST

ST

BR

EPSW

L_OC

00001618

00001620

00001628

00001630

00001634

00001638

00001638

0000163E

00001644

0000164A

00001650

00001656

0000165C

00001662

00001668

0000166C

00001670

00001674 00001674

00001674

0000167C

00001688

00001688

00001688

0000168C

0000168E

0000168F

00001690

00001691

00001692

00001698

000016A0

000016A8

000016B0

000016B4

000016B8

000016B8

000016BE

000016C4

000016CA

000016D0

000016D6

000016DC

000016E2

000016E8

000016EC

000016F0

00001611 02

00001612 OD

OBJECT CODE

FE9CBA87 A2760001

00000000 00000001

E5C1D740 40404040

E320 5010 0004

E320 8F57 002E

E720 8F57 0006

E320 5018 0004

E320 8F67 002E

E730 8F67 0006

E612 3099 F071

E710 8F08 000E

0000000 00000100

00000000 0000000C

FE9CBA87 A2760001

FFDC790D 903F0000

E5C1D740 40404040

E320 5010 0004

E320 8F57 002E

E720 8F57 0006

E320 5018 0004

E320 8F67 002E

E730 8F67 0006

E612 30D9 F071

E710 8F08 000E

B98D 0020

5020 **8EE8**

07FB

1001+

1002+

1003+

1004+

1005+

1006 +

00001167

00001108

000010E8

B98D 0020

5020 **SEE8**

000016B8

00000010

000016F4

000B

00

9F

OD.

02

OD

07FB

00000010

00001674

ADDR1

OFD

base for test data and test routine

USING *, R5

DS

1112+

1113 +

00001888

00001888

ASIM Ver.	0. 7. 0 zvector- e6- 0	J5- packarı t	n (Zvector	E6 VRI-f pack	ked ari	thmetic)	18 Jun 2024 18: 57: 20 Page 28
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00001888	000018B8			1114+T15	DC	A(X15)	address of test routine
0000188C	000F			1115+	DC	H' 15'	test number
0000188E	00			1116+	DC	X' 00'	cose number
0000188F	01			1117+	DC	HL1'1'	i 4
00001890	01			1118+	DC	HL1' 1'	m5
00001891	03			1119+	DC	HL1' 3'	cc
00001892	0E			1120+	DC	HL1' 14'	cc failed mask
00001898	0000000 000000A			1121+V2_15	DC	FD' +10'	binary value for v2 packed decimal
000018A0	FFFFFFF FFFFFF4			1122+V3_15	DC	FD' - 12'	binary value for v3 packed decimal
000018A8	E5E2D740 40404040			1123+	DC	CL8' VSP'	instruction name
000018B0				1124+	DC	A(16)	result length
000018B4				1125+REA15	DC	A(RE15)	result address
				1126+*		` '	INSTRUCTION UNDER TEST ROUTINE
000018B8				1127+X15	DS	OF	
000018B8	E320 5010 0004		00001898	1128+	LG	R2, V2_15	convert v2
000018BE	E320 8F57 002E		00001157	1129+	CVDG		
000018C4	E720 8F57 0006		00001157	1130+	VL	V2, V2PACKED	
000018CA	E320 5018 0004		000018A0	1131+	LG	R2, V3_15	convert v3
000018D0	E320 8F67 002E		00001167	1132+		R2, V3PACKED	
000018D6	E730 8F67 0006		00001167		VL	V3, V3PACKED	
000018DC	E612 3010 1073			1134+	VSP	V1, V2, V3, 1, 1	test instruction
000018E2	E710 8F08 000E		00001108	1135+	VST	V1, V10UTPUT	save result
000018E8	B98D 0020			1136+	EPSW	R2, R0	exptract psw
000018EC	5020 8EE8		000010E8	1137+	ST	R2, CCPSW	to save CC
000018F0	07FB			1138+	BR	R11	return
000018F4				1139+RE15	DC	0F	
000018F4	0000000 0000000			1140+	DROP		
				1111			
000018F4	00000000 00000000			1141	DC	XL16, 0000000000000	00000000000000002C'
000018F4 000018FC	0000000 0000000 00000000 0000002C				DC	XL16, 000000000000	00000000000000002C'
				1142			00000000000000002C'
000018FC				1142 1143	VRI_F	VSP, +10, -12, 7, 1, 2	00000000000000002C'
000018FC 00001908		00001908		1142 1143 1144+	VRI_F DS	VSP, +10, -12, 7, 1, 2 OFD	
000018FC 00001908 00001908	00000000 0000002C	00001908		1142 1143 1144+ 1145+	VRI_F DS USING	VSP, +10, -12, 7, 1, 2 OFD *, R5	base for test data and test routine
000018FC 00001908 00001908 00001908	0000000 0000002C 00001938	00001908		1142 1143 1144+ 1145+ 1146+T16	VRI_F DS USING DC	VSP, +10, -12, 7, 1, 2 OFD *, R5 A(X16)	base for test data and test routine address of test routine
000018FC 00001908 00001908 00001908	00000000 0000002C 00001938 0010	00001908		1142 1143 1144+ 1145+ 1146+T16 1147+	VRI_F DS USING DC DC	VSP, +10, -12, 7, 1, 2 OFD *, R5 A(X16) H' 16'	base for test data and test routine
000018FC 00001908 00001908 00001908	0000000 0000002C 00001938	00001908		1142 1143 1144+ 1145+ 1146+T16	VRI_F DS USING DC	VSP, +10, -12, 7, 1, 2 OFD *, R5 A(X16) H' 16' X' 00' HL1' 7'	base for test data and test routine address of test routine
000018FC 00001908 00001908 0000190C 0000190E	00000000 0000002C 00001938 0010 00	00001908		1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+	VRI_F DS USING DC DC DC	VSP, +10, -12, 7, 1, 2 OFD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1'	base for test data and test routine address of test routine test number
000018FC 00001908 00001908 0000190C 0000190E 0000190F 00001910 00001911	00000000 0000002C 00001938 0010 00 07 01 02	00001908		1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+	VRI_F DS USING DC DC DC DC DC DC	VSP, +10, -12, 7, 1, 2 OFD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 2'	base for test data and test routine address of test routine test number i4 m5 cc
000018FC 00001908 00001908 0000190C 0000190E 0000190F 00001910 00001911	00000000 0000002C 00001938 0010 00 07 01 02 0D	00001908		1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+ 1152+	VRI_F DS USING DC DC DC DC DC DC DC	VSP, +10, -12, 7, 1, 2 OFD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 1' HL1' 1'	base for test data and test routine address of test routine test number i4 m5 cc cc failed mask
000018FC 00001908 00001908 0000190C 0000190E 0000190F 00001910 00001911 00001912 00001918	00000000 0000002C 00001938 0010 00 07 01 02 0D 00000000 0000000A	00001908		1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+ 1152+ 1153+V2_16	VRI_F DS USING DC DC DC DC DC DC DC DC	VSP, +10, -12, 7, 1, 2 OFD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 1' HL1' 2' HL1' 13' FD' +10'	base for test data and test routine address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal
000018FC 00001908 00001908 0000190C 0000190E 0000190F 00001910 00001911 00001912 00001918	00000000 0000002C 00001938 0010 00 07 01 02 0D 00000000 0000000A FFFFFFFF FFFFFF4	00001908		1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+ 1152+ 1153+V2_16 1154+V3_16	VRI_F DS USING DC DC DC DC DC DC DC DC DC	VSP, +10, -12, 7, 1, 2 OFD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 1' HL1' 2' HL1' 13' FD' +10' FD' - 12'	base for test data and test routine address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal
000018FC 00001908 00001908 0000190C 0000190E 0000190F 00001910 00001911 00001912 00001918 00001920 00001928	00000000 0000002C 00001938 0010 00 07 01 02 0D 00000000 0000000A FFFFFFFF FFFFFF4 E5E2D740 40404040	00001908		1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+ 1152+ 1153+V2_16 1154+V3_16 1155+	VRI_F DS USING DC	VSP, +10, -12, 7, 1, 2 OFD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 1' HL1' 2' HL1' 13' FD' +10' FD' - 12' CL8' VSP'	base for test data and test routine address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name
000018FC 00001908 00001908 0000190C 0000190E 0000190F 00001910 00001911 00001912 00001920 00001928 00001930	00000000 0000002C 00001938 0010 00 07 01 02 0D 0000000 0000000A FFFFFFFF FFFFFF4 E5E2D740 40404040 00000010	00001908		1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+ 1152+ 1153+V2_16 1154+V3_16 1155+ 1156+	VRI_F DS USING DC	VSP, +10, -12, 7, 1, 2 OFD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 2' HL1' 13' FD' +10' FD' - 12' CL8' VSP' A(16)	base for test data and test routine address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length
000018FC 00001908 00001908 0000190C 0000190E 0000190F 00001910 00001911 00001912 00001918 00001920 00001928	00000000 0000002C 00001938 0010 00 07 01 02 0D 00000000 0000000A FFFFFFFF FFFFFF4 E5E2D740 40404040	00001908		1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+ 1152+ 1153+V2_16 1154+V3_16 1155+ 1156+ 1157+REA16	VRI_F DS USING DC	VSP, +10, -12, 7, 1, 2 OFD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 1' HL1' 2' HL1' 13' FD' +10' FD' - 12' CL8' VSP'	base for test data and test routine address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length result address
000018FC 00001908 00001908 0000190C 0000190E 0000190F 00001910 00001911 00001912 00001918 00001920 00001928 00001930 00001934	00000000 0000002C 00001938 0010 00 07 01 02 0D 0000000 0000000A FFFFFFFF FFFFFF4 E5E2D740 40404040 00000010	00001908		1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+ 1152+ 1153+V2_16 1154+V3_16 1155+ 1156+ 1156+ 1157+REA16 1158+*	VRI_F DS USING DC	VSP, +10, -12, 7, 1, 2 OFD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 1' HL1' 12' HL1' 13' FD' +10' FD' - 12' CL8' VSP' A(16) A(RE16)	base for test data and test routine address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length
000018FC 00001908 00001908 0000190C 0000190E 00001910 00001911 00001912 00001918 00001920 00001928 00001930 00001934	00000000 0000002C 00001938 0010 00 07 01 02 0D 00000000 0000000A FFFFFFFF FFFFFF4 E5E2D740 40404040 0000010 00001974	00001908	00001010	1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+ 1152+ 1153+V2_16 1154+V3_16 1155+ 1156+ 1156+ 1157+REA16 1158+* 1159+X16	VRI_F DS USING DC	VSP, +10, -12, 7, 1, 2 OFD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 1' HL1' 12' HL1' 13' FD' +10' FD' - 12' CL8' VSP' A(16) A(RE16)	base for test data and test routine address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length result address INSTRUCTION UNDER TEST ROUTINE
000018FC 00001908 00001908 0000190C 0000190E 0000190F 00001910 00001911 00001912 00001918 00001920 00001928 00001930 00001938	00000000 0000002C 00001938 0010 00 07 01 02 0D 00000000 0000000A FFFFFFFF FFFFFF4 E5E2D740 40404040 0000010 00001974 E320 5010 0004	00001908	00001918	1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+ 1152+ 1153+V2_16 1155+ 1156+ 1155+ 1156+ 1158+* 1159+X16 1160+	VRI_F DS USING DC	VSP, +10, -12, 7, 1, 2 OFD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 13' FD' +10' FD' - 12' CL8' VSP' A(16) A(RE16) OF R2, V2_16	base for test data and test routine address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length result address
000018FC 00001908 00001908 0000190C 0000190E 0000190F 00001910 00001911 00001912 00001918 00001920 00001928 00001930 00001938 00001938	00000000 0000002C 00001938 0010 00 07 01 02 0D 0000000 0000000A FFFFFFFF FFFFFF4 E5E2D740 40404040 00000010 00001974 E320 5010 0004 E320 8F57 002E	00001908	00001157	1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+ 1152+ 1153+V2_16 1154+V3_16 1155+ 1156+ 1156+ 1158+* 1159+X16 1160+ 1161+	VRI_F DS USING DC	VSP, +10, -12, 7, 1, 2 OFD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 2' HL1' 13' FD' +10' FD' - 12' CL8' VSP' A(16) A(RE16) OF R2, V2_16 R2, V2PACKED	base for test data and test routine address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length result address INSTRUCTION UNDER TEST ROUTINE
000018FC 00001908 00001908 0000190E 0000190F 00001910 00001911 00001912 00001920 00001928 00001938 00001938 00001938 0000193E 00001944	00000000 0000002C 00001938 0010 00 07 01 02 0D 0000000 0000000A FFFFFFFF FFFFFF4 E5E2D740 40404040 0000010 00001974 E320 5010 0004 E320 8F57 002E E720 8F57 0006	00001908	00001157 00001157	1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+ 1152+ 1153+V2_16 1154+V3_16 1155+ 1156+ 1157+REA16 1158+* 1159+X16 1160+ 1161+ 1162+	VRI_F DS USING DC C DC D	VSP, +10, -12, 7, 1, 2 OFD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 1' HL1' 2' HL1' 13' FD' +10' FD' - 12' CL8' VSP' A(16) A(RE16) OF R2, V2_16 R2, V2_PACKED V2, V2PACKED	base for test data and test routine address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length result address INSTRUCTION UNDER TEST ROUTINE convert v2
000018FC 00001908 00001908 0000190C 0000190E 0000190F 00001910 00001911 00001912 00001920 00001928 00001938 00001938 00001938 00001938 00001938	00000000 0000002C 00001938 0010 00 07 01 02 0D 0000000 0000000A FFFFFFFF FFFFFF4 E5E2D740 40404040 00000010 00001974 E320 5010 0004 E320 8F57 002E E720 8F57 0006 E320 5018 0004	00001908	00001157 00001157 00001920	1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+ 1152+ 1153+V2_16 1154+V3_16 1155+ 1156+ 1156+ 1157+REA16 1158+* 1160+ 1161+ 1162+ 1163+	VRI_F DS USING DC CVDC DC LG CVDG VL LG	VSP, +10, -12, 7, 1, 2 0FD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 12' HL1' 13' FD' +10' FD' - 12' CL8' VSP' A(16) A(RE16) OF R2, V2_16 R2, V2PACKED V2, V2PACKED R2, V3_16	base for test data and test routine address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length result address INSTRUCTION UNDER TEST ROUTINE
000018FC 00001908 00001908 0000190E 0000190F 00001910 00001911 00001912 00001928 00001928 00001930 00001934 00001938 00001938 00001938 00001938 00001944 00001950	00000000 0000002C 00001938 0010 00 07 01 02 0D 00000000 0000000A FFFFFFFF FFFFFF4 E5E2D740 40404040 0000010 00001974 E320 5010 0004 E320 8F57 002E E720 8F57 0006 E320 5018 0004 E320 8F67 002E	00001908	00001157 00001157 00001920 00001167	1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+ 1152+ 1153+V2_16 1155+ 1156+ 1156+ 1157+REA16 1158+* 1159+X16 1160+ 1161+ 1162+ 1163+ 1164+	VRI_F DS USING DC C DC DC C DC D	VSP, +10, -12, 7, 1, 2 0FD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 1' HL1' 2' HL1' 13' FD' +10' FD' - 12' CL8' VSP' A(16) A(RE16) OF R2, V2_16 R2, V2PACKED V2, V2PACKED R2, V3_16 R2, V3_16 R2, V3PACKED	base for test data and test routine address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length result address INSTRUCTION UNDER TEST ROUTINE convert v2
000018FC 00001908 00001908 0000190E 0000190F 00001910 00001911 00001912 00001918 00001920 00001928 00001930 00001934 00001938 00001938 00001938 00001938 00001944 00001950 00001956	00000000 0000002C 00001938 0010 00 07 01 02 0D 00000000 0000000A FFFFFFFF FFFFFF4 E5E2D740 40404040 00000010 00001974 E320 5010 0004 E320 8F57 002E E720 8F57 0006 E320 5018 0004 E320 8F67 002E E730 8F67 002E	00001908	00001157 00001157 00001920	1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+ 1152+ 1153+V2_16 1155+ 1156+ 1157+REA16 1158+* 1159+X16 1160+ 1161+ 1162+ 1163+ 1164+ 1165+	VRI_F DS USING DC C DC DC C DC C DC C DC C C C C C C C C C C C C C C C C C C C	VSP, +10, -12, 7, 1, 2 0FD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 1' HL1' 12' HL1' 13' FD' +10' FD' - 12' CL8' VSP' A(16) A(RE16) OF R2, V2_16 R2, V2PACKED V2, V2PACKED R2, V3_16 R2, V3PACKED V3, V3PACKED V3, V3PACKED	base for test data and test routine address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length result address INSTRUCTION UNDER TEST ROUTINE convert v2 convert v3
000018FC 00001908 00001908 0000190E 0000190F 00001910 00001911 00001912 00001918 00001920 00001930 00001934 00001938 00001938 00001938 00001938 00001944 00001950 00001956	00000000 0000002C 00001938 0010 00 07 01 02 0D 00000000 0000000A FFFFFFFF FFFFFF4 E5E2D740 40404040 0000010 00001974 E320 5010 0004 E320 8F57 002E E720 8F57 0006 E320 5018 0004 E320 8F67 002E E730 8F67 002E E730 8F67 0006 E612 3010 7073	00001908	00001157 00001157 00001920 00001167 00001167	1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+ 1152+ 1153+V2_16 1154+V3_16 1155+ 1156+ 1157+REA16 1158+* 1159+X16 1160+ 1161+ 1162+ 1163+ 1164+ 1165+ 1166+	VRI_F DS USING DC LC C DC	VSP, +10, -12, 7, 1, 2 0FD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 1' HL1' 13' FD' +10' FD' - 12' CL8' VSP' A(16) A(RE16) OF R2, V2_16 R2, V2PACKED V2, V2PACKED V2, V3_16 R2, V3_16 R2, V3PACKED V3, V3PACKED V1, V2, V3, 7, 1	base for test data and test routine address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length result address INSTRUCTION UNDER TEST ROUTINE convert v2 test instruction
000018FC 00001908 00001908 0000190E 0000190F 00001910 00001911 00001912 00001918 00001920 00001928 00001930 00001934 00001938 00001938 00001938 00001938 00001944 00001950 00001956	00000000 0000002C 00001938 0010 00 07 01 02 0D 00000000 0000000A FFFFFFFF FFFFFF4 E5E2D740 40404040 00000010 00001974 E320 5010 0004 E320 8F57 002E E720 8F57 0006 E320 5018 0004 E320 8F67 002E E730 8F67 002E	00001908	00001157 00001157 00001920 00001167	1142 1143 1144+ 1145+ 1146+T16 1147+ 1148+ 1149+ 1150+ 1151+ 1152+ 1153+V2_16 1155+ 1156+ 1157+REA16 1158+* 1159+X16 1160+ 1161+ 1162+ 1163+ 1164+ 1165+	VRI_F DS USING DC LC CVDG VL LG CVDG VL VSP VST	VSP, +10, -12, 7, 1, 2 0FD *, R5 A(X16) H' 16' X' 00' HL1' 7' HL1' 1' HL1' 1' HL1' 12' HL1' 13' FD' +10' FD' - 12' CL8' VSP' A(16) A(RE16) OF R2, V2_16 R2, V2PACKED V2, V2PACKED R2, V3_16 R2, V3PACKED V3, V3PACKED V3, V3PACKED	base for test data and test routine address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length result address INSTRUCTION UNDER TEST ROUTINE convert v2 convert v3

1221+REA18

1222+*

DC

A(RE18)

result address

INSTRUCTION UNDER TEST ROUTINE

00001A34

00001A74

DC

H' 20'

test number

1276 +

00001B0C

VSP

VST

V1, V2, V3, 159, 1

V1. V10UTPUT

test instruction

save result

1327 +

1328 +

00001108

00001BDC

00001BE2

E612 3019 F073

E710 8F08 000E

ASMA Ver. 0.7.0 zvector-e6-05-packarith (Zvector E6 VRI-f packed arithmetic) L_OC **OBJECT CODE** ADDR1 ADDR2 **STM** B98D 0020 1329 +00001BE8 EPSW R2, R0 exptract psw 000010E8 R2, CCPSW 00001BEC 5020 **8EE8** 1330+ ST to save CC BR **R11** 00001BF0 07FB 1331+ return 1332+RE21 DC 0F 00001BF4 **R5** 00001BF4 1333 +**DROP** 00001BF4 0000000 00000089 1334 DC 00001BFC 9999999 999999C 1335 1336 VRI_F VSP, -99999999999999, -1, 159, 1, 1 00001C08 1337 +DS **OFD** 00001C08 1338+ USING *, R5 00001C08 base for test data and test routine 00001C38 1339+T22 A(X22) 00001C08 DC address of test routine 00001C0C 0016 1340+ DC H' 22' test number 1341+ DC X' 00' 00001C0E 00 1342+ DC HL1' 159' i 4 00001C0F 9F 1343+ HL1'1' 00001C10 01 DC mб HL1'1' 00001C11 01 1344+ DC \mathbf{cc} 00001C12 OB 1345+ DC HL1' 11' cc failed mask 1346+V2_22 DC 00001C18 FFDC790D 903F0001 binary value for v2 packed decimal 00001C20 FFFFFFF FFFFFFF 1347+V3_22 DC FD' - 1' binary value for v3 packed decimal CL8' VSP' 00001C28 E5E2D740 40404040 1348+ DC instruction name 00001C30 00000010 1349 +DC A(16) result length 00001C34 00001C74 1350+REA22 DC A(RE22) result address INSTRUCTION UNDER TEST ROUTINE 1351+* 1352+X22 DS 0F 00001C38 00001C38 E320 5010 0004 00001C18 1353+ LG R2, V2_22 convert v2 00001C3E E320 8F57 002E 00001157 1354+ **CVDG** R2, V2PACKED 00001C44 E720 8F57 0006 1355+ V2. V2PACKED 00001157 VL 00001C4A E320 5018 0004 00001C20 1356+ LG R2, V3 22 convert v3 R2, V3PACKED E320 8F67 002E **CVDG** 00001C50 00001167 1357+ 00001C56 E730 8F67 0006 00001167 1358+ VL V3, V3PACKED 00001C5C E612 3019 F073 1359+ **VSP** V1, V2, V3, 159, 1 test instruction E710 8F08 000E 00001108 1360+ **VST** V1, V10UTPUT 00001C62 save result EPSW R2, R0 00001C68 B98D 0020 1361+ exptract psw 000010E8 R2, CCPSW 5020 **8EE8** 1362+ ST 00001C6C to save CC 00001C70 07FB 1363+ BR **R11** return 00001C74 1364+RE22 DC 0F 00001C74 1365+ **DROP R5** 0000000 00000009 1366 DC 00001C74 9999999 999998D 00001C7C 1367 1368 VRI F VSP, -999999999999999, -1, 135, 1, 3 i 4=135(i om=1 & rdc=7) 1369+ 00001C88 DS **OFD** 00001C88 1370+ USING *, R5 00001C88 base for test data and test routine 00001C88 00001CB8 1371+T23 DC A(X23)address of test routine 00001C8C 0017 1372 +DC H' 23' test number 00001C8E 1373+ DC X' 00' 00 00001C8F 87 1374+ DC HL1' 135' i 4 DC 00001C90 01 1375+ HL1'1' mб 00001C91 03 1376+ DC HL1'3' \mathbf{cc} HL1' 14' 00001C92 0E 1377 +DC cc failed mask 1378+V2_23 DC 00001C98 FFDC790D 903F0001 binary value for v2 packed decimal 1379+V3 23 FD' - 1' binary value for v3 packed decimal FFFFFFF FFFFFFF DC 00001CA0 CL8' VSP' 1380 +DC 00001CA8 E5E2D740 40404040 instruction name

m5=3(P1=1)

base for test data and test routine

binary value for v2 packed decimal

binary value for v3 packed decimal

INSTRUCTION UNDER TEST ROUTINE

address of test routine

1467+ 00001E08 1468+ 00001E38 1469+T26 001A 1470 +1471+ 00 9F 1472+ 00001E10 03 1473+ 1474+ 02 OD 1475+ 1476+V2_26 FFDC790D 903F0001 FFFFFFF FFFFFFF 1477+V3_26

OBJECT CODE

FE9CBA87 A2760001

FFDC790D 903F0000

E5E2D740 40404040

E320 5010 0004

E320 8F57 002E

E720 8F57 0006

E320 5018 0004

E320 8F67 002E

E730 8F67 0006

E612 30D9 F073

E710 8F08 000E

00000000 00000089

9999999 9999999C

E5E2D740 40404040

E320 5010 0004

E320 8F57 002E

E720 8F57 0006

0000010

00001E74

00001E34

00001E38

00001E38

00001E3E

00001E44

B98D 0020

5020 **8EE8**

07FB

00001DB8

00000010

00001DF4

0019

00

9F

OD.

02

OD

ADDR1

00001D88

ADDR2

00001D98

00001157

00001157

00001DA0

00001167

00001167

00001108

000010E8

00001E18

00001157

00001157

STM

1434

1435+

1436+

1438+

1439+

1440+

1441+

1442+

1443+

1446+

1447+

1449+*

1451+

1452+

1453+

1454+

1455+

1456+

1457+

1458+

1459+

1460+

1461+

1463+

1464

1465

1466

1478+

1479 +

1481+*

1483+

1484+

1485+

1482+X26

1480+REA26

1462+RE25

1450+X25

1444+V2_25

1445+V3 25

1448+REA25

1437+T25

DS

DC

DS

LG

VL

LG

VL

VSP

VST

ST

BR

DC

DC

DS

DC

DS

LG

CVDG

DROP

EPSW R2, R0

R11

0F

R5

OFD

CVDG

CVDG

OFD

A(X25)

HL1' 159'

HL1' 13'

HL1' 13'

CL8' VSP'

A(RE25)

R2, V2_25

R2, V3 25

R2, V2PACKED

V2, V2PACKED

R2, V3PACKED

V3, V3PACKED

V1, V10UTPUT

R2, CCPSW

V1, V2, V3, 159, 13

A(16)

0F

HL1' 2'

H' 25'

X' 00'

USING *, R5

USING *, R5 A(X26) DC DC H' 26' X' 00' DC HL1' 159' DC DC HL1'3' DC HL1' 2' DC HL1' 13' DC DC FD' - 1' CL8' VSP' DC DC A(16)

A(RE26)

0F

binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length

cc failed mask

VRI F VSP, -9999999999999999, -1000000000000000, 159, 13, 2

i 4

mб

 \mathbf{cc}

FD' - 100000000000000000'

test number

cc failed mask

instruction name

test instruction

to save CC

XL16' 000000000000008999999999999900' m5=13(P2=1, P3=1)

address of test routine

result length

convert v2

convert v3

save result

test number

i 4

mб

 \mathbf{cc}

return

exptract psw

result address

result address INSTRUCTION UNDER TEST ROUTINE convert v2

base for test data and test routine

R2, V2 26 R2, V2PACKED V2, V2PACKED

VRI F VSP, -99999999999999, -1, 159, 3, 2

DC

1538 +

00001F0C

001C

H' 28'

test number

R2, CCPSW

R11

to save CC

return

ST

BR

00001FEC

00001FF0

5020 **8EE8**

07FB

000010E8

1592+

1593 +

0F

R2, V2 31

convert v2

DS

LG

1646+X31

1647+

00002098

000020B8

000020B8

E320 5010 0004

HL1'7'

HL1' 1'

i 4

m5

DC

DC

1700+

1701 +

0000218F

00002190

07

DC

1756

note RDC

00002274

DS

1807+X36

0F

OBJECT CODE

E5D4D740 40404040

E320 5010 0004

E320 8F57 002E

E720 8F57 0006

E320 5018 0004

E320 8F67 002E

E730 8F67 0006

000025A0 FFDC790D 903F0000

0000010

000025F4

L_OC

000025A8

000025B0

000025B4

000025B8

000025B8

000025BE

000025C4

000025CA

000025D0

000025D6

00002612

00002618

00002620

00002628

00002630

00002634

00002638

00002638

0000263E

00002644

0000264A

00002650

00002656

0000265C

00002662

00002668

0000266C

00002670

00002674

00002674

00002674

0000267C

OD

00000010

00002674

FFDC790D 903F0001

FFFFFFF FFFFFFF

E5D4D740 40404040

E320 5010 0004

E320 8F57 002E

E720 8F57 0006

E320 5018 0004

E320 8F67 002E

E730 8F67 0006

E612 3039 F078

E710 8F08 000E

0000000 00000009

9999999 999999F

B98D 0020

5020 **SEE8**

07FB

ASMA Ver. 0.7.0 zvector-e6-05-packarith (Zvector E6 VRI-f packed arithmetic)

ADDR2

00002598

00001157

00001157

000025A0

00001167

00001167

00002618

00001157

00001157

00002620

00001167

00001167

00001108

000010E8

STM

1966+

1967+

1969+*

1971+

1972+

1973+

1974+

1975+

1976+

1977+

1979+

1981+

1983 +

1984

1985

1986

1987+

1988+

1990+

1991+

1992+

1993+

1994+

1995+

2006+

2007+

2008+

2009+

2010+

2011+

2012+

2013+

2015+

2016

2014+RE42

1996+V2 42

1989+T42

1982+RE41

1970+X41

1965+V3 41

1968+REA41

DC

DC

DC

DC

DS

LG

VL

LG

VL

VMP

VST

ST

BR

DC

DC

DS

DC

DC

DC

DC

DC

DC

DC

DC

VMP

VST

ST

BR

DC

DC

DROP

EPSW R2, R0

R11

0F

R5

DROP

EPSW

CVDG

CVDG

CL8' VMP'

A(RE41)

R2, V2 41

R2, V3_41

R2, **R0**

R11

0F

R5

OFD

A(X42)

HL1' 159'

H' 42'

X' 00'

HL1'3'

HL1'2'

FD' - 1'

A(16)

 $\mathbf{0F}$

CL8' VMP'

A(RE42)

HL1' 13'

USING *, R5

R2, V2PACKED

V2, V2PACKED

R2, V3PACKED

V3, V3PACKED

V1, V10UTPUT

R2, CCPSW

V1, V2, V3, 159, 13

A(16)

0F

ADDR1

1997+V3_42 DC 1998+ DC 1999+ DC 2000+REA42 DC 2001+* 2002+X42 DS LG 2003+ 2004+ 2005+ VL

CVDG R2, V2PACKED V2, V2PACKED R2, V3 42 LG $R2, V3\overline{P}ACKED$ **CVDG** VL V3, V3PACKED

R2, CCPSW

R2, V2_42

V1, V2, V3, 159, 3 test instruction V1, V10UTPUT save result exptract psw to save CC

i 4

mб

 \mathbf{cc}

return

EPSW R2, R0

ST

R2, CCPSW

exptract psw

to save CC

2176+

2177+

000010E8

000028E8

000028EC

B98D 0020

5020 SEE8

DS

2231+X49

000029B8

0F

R2, CCPSW

R11

to save CC

return

ST

BR

2338+

2339 +

000010E8

00002B6C

00002B70

5020 **8EE8**

07FB

2390+REA54

2391+*

DC

A(RE54)

result address

INSTRUCTION UNDER TEST ROUTINE

00002C34

00002C74

00002D08

2441+

2442+

2444+

2443+T56

DC

H' 56'

00002D08

00002D08

00002D08

00002D0C

00002D38

0038

convert v2 convert v3 V1, V2, V3, 159, 1 test instruction save result exptract psw to save CC return base for test data and test routine address of test routine test number i 4 mб \mathbf{cc} cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length result address INSTRUCTION UNDER TEST ROUTINE convert v2 convert v3 V1, V2, V3, 135, 1 test instruction save result exptract psw to save CC return XL16' 000000000000000000000009999999C' overflow RDC VRI_F VDP, +999999999999999999, +1234, 159, 1, 2 **OFD** DS USING *, R5 base for test data and test routine DC A(X56) address of test routine

test number

VST

EPSW R2, R0

V1, V10UTPUT

save result

exptract psw

00002DE2

00002DE8

E710 8F08 000E

B98D 0020

00001108

2496+

2497 +

LOC	OBJECT CODI	E ADDR1	ADDR2	STMT			
0002EA8	E5C4D740 40404			2550+	DC	CL8' VDP'	instruction name
002EB0	00000010	1040		2551+	DC DC		
						A(16)	result length
0002EB4	00002EF4			2552+REA59	DC	A(RE59)	result address
				2553+*		0.77	INSTRUCTION UNDER TEST ROUTINE
0002EB8				2554+X59	DS	0F	
002EB8	E320 5010 0004		00002E98	2555+	LG	R2, V2_59	convert v2
002EBE	E320 8F57 0021	Ξ	00001157	2556 +	CVDG	R2, V2PACKED	
0002EC4	E720 8F57 0006	3	00001157	2557+	VL	V2, V2PACKED	
0002ECA	E320 5018 0004		00002EA0	2558+	LG	R2, V3_59	convert v3
0002ED0	E320 8F67 0021		00001167	2559+	CVDG	R2, V3PACKED	
002ED6	E730 8F67 0006		00001167	2560+	VL	V3, V3PACKED	
002EDC	E612 30D9 F07		00001107	2561+	VDP	V1, V2, V3, 159, 13	test instruction
			00001108				
002EE2	E710 8F08 0001	L	00001108	2562+	VST	V1, V10UTPUT	save result
002EE8	B98D 0020		00004070	2563+	EPSW		exptract psw
002EEC	5020 SEES		000010E8	2564 +	ST	R2, CCPSW	to save CC
002EF0	07FB			2565 +	BR	R11	return
002EF4				2566+RE59	DC	0F	
002EF4				2567+	DROP	R5	
002EF4	00000000 00000			2568	DC		000009999999999999C'
002EFC	09999999 99999	999C		2569			
				2570	VRI F	VDP, - 99999999999	99999, -1, 159, 3, 2 m5=3(P1=1)
002F08				2571+	DS _	OFD	, , , , , , , , , , , , , , , , , , , ,
002F08		00002F08		2572+	USING		base for test data and test routine
002F08	00002F38	0000≈100		2573+T60	DC	A(X60)	address of test routine
002F0C	003C			2574+	DC	H' 60'	test number
002F0E	00			2575+	DC	X' 00'	
002F0F	9 F			2576+	DC	HL1' 159'	i 4
002F10	03			2577+	DC	HL1'3'	m5
002F11	02			2578+	DC	HL1' 2'	cc
002F12	OD			2579+	DC	HL1' 13'	cc failed mask
				2580+V2_60	DC	FD' - 999999999999	
002F18	FFDC790D 903F0	0001		+			binary value for v2 packed decimal
	FFFFFFFF FFFFI			2581+V3_60	DC	FD' - 1'	binary value for v3 packed decimal
	E5C4D740 40404			2582+	DC	CL8' VDP'	instruction name
		1040					
002F30	00000010			2583+ 2584 PEAGO	DC	A(16)	result length
002F34	00002F74			2584+REA60	DC	A(RE60)	result address
				2585+*			INSTRUCTION UNDER TEST ROUTINE
002F38				2586+X60	DS	OF	
002F38	E320 5010 0004		00002F18	2587 +	LG	R2, V2_60	convert v2
002F3E	E320 8F57 0021	Ξ	00001157	2588 +	CVDG	$R2, V2\overline{P}ACKED$	
002F44	E720 8F57 0006		00001157	2589+	VL	V2, V2PACKED	
002F4A	E320 5018 0004		00002F20		ĹĠ	R2, V3_60	convert v3
002F50	E320 8F67 0021		00002120	2591+		R2, V3PACKED	
002F56							
	E730 8F67 0006		00001167	2592+	VL VDD	V3, V3PACKED	toat inatmustic-
002F5C	E612 3039 F07/		00001100	2593+	VDP	V1, V2, V3, 159, 3	test instruction
002F62	E710 8F08 000I	1	00001108	2594+	VST	V1, V10UTPUT	save result
002F68	B98D 0020			2595+	EPSW	R2, R0	exptract psw
002F6C	5020 8EE8		000010E8	2596 +	ST	R2, CCPSW	to save CC
002F70	07FB			2597+	BR	R11	return
002F74				2598+RE60	DC	0F	-
002F74				2599+	DROP	R5	
002F74 002F74	0000000 00000	2000		2600	DKOP		0000999999999999999999999999999999999
UU&F/4				£UUU	DC	ALIU UUUUUUUUUU	166666666666666666666666666666666666666
	AAAAAAAA AAAAA						
002F7C	99999999 99999	999F		0001			
	99999999 99999	999F		2601 2602 *			m5=13(P2=1, P3=1)

LG

R2, V3 62

convert v3

2655+

00003020

E320 5018 0004

0000304A

DC

H' 64'

test number

2708 +

0000310C

ASMA Ver.	0. 7. 0 zvector- e6- 0)5- packari t	h (Zvector	E6 VRI-f pack	ed ari	thmetic)	18 Jun 2024 18: 57: 20 Page 58
LOC	OBJECT CODE	ADDR1	ADDR2	STMI			
0000310E				2709+	DC	X' 00'	
0000310F	07			2710+	DC	HL1' 7'	i 4
00003110	01			2711+	DC	HL1' 1'	m5
00003111 00003112	02 0D			2712+ 2713+	DC DC	HL1' 2' HL1' 13'	cc cc failed mask
00003112	00000000 0000000A			2713+ 2714+V2 64	DC DC	FD' +10'	binary value for v2 packed decimal
00003110	0000000 000000A			2715+V3_64	DC	FD' +12'	binary value for v3 packed decimal
00003128	E5D9D740 40404040			2716+ 2716+	DC	CL8' VRP'	instruction name
00003130				2717+	DC	A(16)	result length
00003134	00003174			2718+REA64 2719+*	DC	A(RE64)	result address INSTRUCTION UNDER TEST ROUTINE
00003138				2720+X64	DS	OF	
00003138	E320 5010 0004		00003118	2721+	LG	R2, V2_64	convert v2
0000313E	E320 8F57 002E		00001157	2722+	CVDG	R2, V2PACKED	
00003144	E720 8F57 0006		00001157	2723+	VL LC	V2, V2PACKED	
0000314A 00003150	E320 5018 0004 E320 8F67 002E		00003120 00001167	2724+ 2725+	LG CVDG	R2, V3_64 R2, V3PACKED	convert v3
0003150	E730 8F67 0006		00001167	2726+	VL	V3, V3PACKED	
00003130 0000315C	E612 3010 707B		00001107	2727+	VRP	V1, V2, V3, 7, 1	test instruction
00003162	E710 8F08 000E		00001108	2728+	VST	V1, V2, V3, 7, 1 V1, V10UTPUT	save result
00003168	B98D 0020		00001100	2729+	EPSW	R2, R0	exptract psw
0000316C	5020 8EE8		000010E8	2730+	ST	R2, CCPSW	to save CC
00003170	07FB			2731+	BR	R11	return
00003174				2732+RE64	DC	OF	
00003174				2733+	DROP	R 5	
00003174	00000000 00000000			2734	DC	XL16' 0000000000000	000000000000000010C'
0000317C	00000000 0000010C			2735	VDT E	VDD 100 .10 7 1	4
00003188				2736 2737+	DS DS	VRP, - 100, +12, 7, 1, OFD	
0003188		00003188		2738+	USING		base for test data and test routine
00003188	000031B8	00000100		2739+T65	DC	A(X65)	address of test routine
0000318C				2740+	DC	H' 65'	test number
0000318E				2741+	DC	X' 00'	
0000318F	07			2742+	DC	HL1' 7'	i 4
00003190				2743+	DC	HL1' 1'	mő
00003191	01			2744+	DC	HL1' 1'	CC
00003192	OB			2745+	DC	HL1' 11'	cc failed mask
0003198 00031A0	FFFFFFF FFFFF9C 00000000 0000000C			2746+V2_65 2747+V3_65	DC DC	FD' - 100' FD' +12'	binary value for v2 packed decimal binary value for v3 packed decimal
00031A0	E5D9D740 40404040			2748+	DC DC	CL8' VRP'	instruction name
000031R0				2749+	DC	A(16)	result length
000031B4	000031F4			2750+REA65	DC	A(RE65)	result address
				2751+*		(INSTRUCTION UNDER TEST ROUTINE
00031B8				2752+X65	DS	OF	
000031B8	E320 5010 0004		00003198	2753+	LG	R2, V2_65	convert v2
000031BE	E320 8F57 002E		00001157		CVDG	R2, V2PACKED	
00031C4	E720 8F57 0006		00001157		VL LC	V2, V2PACKED	20000004 200
00031CA	E320 5018 0004		000031A0		LG CVDC	R2, V3_65	convert v3
000031D0 000031D6	E320 8F67 002E E730 8F67 0006		00001167 00001167	2757+ 2758+	CVDG VL	R2, V3PACKED V3, V3PACKED	
00031DC	E612 3010 707B		00001107	2759+	VRP	V3, V3FACKED V1, V2, V3, 7, 1	test instruction
00031E2	E710 8F08 000E		00001108	2760+	VKI VST	V1, V2, V3, 7, 1 V1, V10UTPUT	save result
00031E8	B98D 0020		50001100	2761+	EPSW	R2, R0	exptract psw
000031EC	5020 8EE8		000010E8	2762+	ST	R2, CCPSW	to save CC
000031F0	07FB			2763+	BR	R11	return

0F

R2, V2 67

convert v2

DS

LG

2816+X67

2817+

00003298

000032B8

000032B8

E320 5010 0004

LG

R2, V2 72

convert v2

E320 5010 0004

00003538

00003518

2978+

3190+T79

DC

A(X79)

address of test routine

00003888

000038B8

save result

3405+REA85

DC

A(RE85)

result address

00003BB4

00003BF4

DC

DC

A(X87)

H' 87'

address of test routine

test number

3458+T87

3459 +

00003C88

00003C8C

00003CB8

BR

R11

return

3514 +

00003D70

07FB

3567+*

INSTRUCTION UNDER TEST ROUTINE

DS

USING *, R5

base for test data and test routine

3619 +

00003F08

00003F08

VMSP

V1, V2, V3, 135, 1

test instruction

3672 +

E612 3018 7079

00003FDC

L_OC

00004098

000040A0

000040A8

000040B0

000040B4

000040B8

000040B8

000040BE

000040C4

000040CA

000040D0

000040D6

000040DC

000040E2

000040E8

000040EC

000040F0

00004092 OD

OBJECT CODE

FE9CBA87 A2760001

00000000 00000001

E5D4E2D7 40404040

E320 5010 0004

E320 8F57 002E

E720 8F57 0006

E320 5018 0004

E320 8F67 002E

E730 8F67 0006

E612 3098 1079

E710 8F08 000E

B98D 0020

5020 **8EE8**

07FB

00000010

000040F4

ASMA Ver. 0.7.0 zvector-e6-05-packarith (Zvector E6 VRI-f packed arithmetic)

ADDR2

00004098

00001157

00001157

000040A0

00001167

00001167

00001108

000010E8

STM

3725+

3728 +

3729 +

3731+*

3733+

3734+

3735+

3736+

3737+

3738+

3739+

3740+

3741+

3742+

3743+

3745+

3746

3747 3748 *

3750

3749 *

3744+RE95

3732+X95

3726+V2_95

3727+V3 95

3730+REA95

HL1' 13'

FD' +1'

A(16)

0F

A(RE95)

R2, V2 95

R2, V3_95

R2, R0

R11

0F

R5

R2, CCPSW

R2, V2PACKED

V2, V2PACKED

R2, V3PACKED

V3, V3PACKED

V1, V10UTPUT

V1, V2, V3, 129, 9

CL8' VMSP'

DC

DC

DC

DC

DC

DC

DS

LG

VL

LG

VL

CVDG

CVDG

VMSP

EPSW

VST

ST

BR

DC

DC

DROP

ADDR1

shamt=7 m5=13(P2=1, P3=1)VRI_F VMSP, -9999999999999999, -1000000000000000, 135, 13, 2

return

00004108			3751+	DS	OFD .	
00004108		00004108	3752+	USING	*, R 5	base for test data and test routine
00004108	00004138		3753+T96	DC	A(X96)	address of test routine
0000410C	0060		3754+	DC	H' 96'	test number

0000410E 00 3755+ DC X' 00' 3756+ HL1' 135' 0000410F 87 DC i 4 00004110 OD 3757+ DC HL1' 13' mБ 3758+ HL1' 2' 00004111 02 DC \mathbf{cc}

00004112 OD 3759+ DC **IL1'13'** cc failed mask 3760+V2_96 DC

00004118 FE9CBA87 A2760001 binary value for v2 packed decimal 3761+V3 96 DC FD' - 100000000000000000 binary value for v3 packed decimal 00004120 FFDC790D 903F0000

3762+ DC CL8' VMSP' 00004128 E5D4E2D7 40404040 instruction name 00004130 00000010 3763+ DC A(16) result length 3764+REA96 DC A(RE96) 00004134 00004174 result address INSTRUCTION UNDER TEST ROUTINE 3765+*

3766+X96 00004138 DS $\mathbf{0F}$ LG R2. V2 96 00004138 E320 5010 0004 00004118 3767+ convert v2 E320 8F57 002E 3768+ **CVDG** R2, V2PACKED 0000413E 00001157

00004144 E720 8F57 0006 00001157 3769+ VL V2, V2PACKED 3770+ 0000414A E320 5018 0004 00004120 LG R2, V3 96

E320 8F67 002E 3771+ 00001167 CVDG R2, V3PACKED 00004150 00004156 E730 8F67 0006 00001167 3772+ VL V3, V3PACKED

E612 30D8 7079 V1, V2, V3, 135, 13 0000415C 3773 +**VMSP** 00004162 E710 8F08 000E 00001108 3774+ **VST** V1, V10UTPUT

EPSW 00004168 B98D 0020 3775 +R2, R0 000010E8 R2, CCPSW 0000416C 5020 SEE8 3776+ ST

test instruction save result exptract psw

convert v3

to save CC

3828+V3 98

00004220

FFFFFFF FFFFFFF

DC

FD' - 1'

binary value for v3 packed decimal

DROP

DC

3880+

3881

000042F4

000042F4

0000000 00000000

R5

XL16' 00000000000000000000000000099F'

DC

CL8' VSDP'

instruction name

4098+

00004628

E5E2C4D7 40404040

OFD

4197+REA109

4198+* 4199+X109

4200+

4201+

4202+

4203+

4204+

4205+

00004798

00001157

00001157

000047A0

00001167

00001167

DC

DS

LG

VL

LG

CVDG

CVDG

A(RE109)

R2, V2_109

R2, V3 109

R2, V2PACKED

V2, V2PACKED

R2, V3PACKED

V3, V3PACKED

0F

result address

convert v2

convert v3

INSTRUCTION UNDER TEST ROUTINE

000047B4

000047B8

000047B8

000047BE

000047C4

000047CA

000047D0

000047D6

000047F4

E320 5010 0004

E320 8F57 002E

E720 8F57 0006

E320 5018 0004

E320 8F67 002E

E730 8F67 0006

DC

H' 116'

test number

4416+

00004B0C

DC

4576+

00004D64

00001C88

A(T23)

address of test

	0. 7. 0 zvector- e6				packed ar	ı unmetic)	18 Jun 2024 18: 57	: zu rage	96
LOC	OBJECT CODE	ADDR1	ADDR2	STMI					
		00000016	00000001	4727 V22	EQU	22			
		00000017 00000018	0000001	4728 V23 4729 V24	EQU EQU	23 24			
		00000019 000001A	00000001	4730 V25 4731 V26	EQU EQU	25 26			
		0000001B	00000001	4732 V27	EQU	27			
		0000001D	00000001	4733 V28 4734 V29	EQU EQU	26 29			
		0000001E 0000001F	00000001 00000001	4735 V30 4736 V31	EQU EQU EQU EQU EQU EQU EQU EQU	22 23 24 25 26 27 28 29 30 31			
				4737 4738	END				

SYMBOL SEGIN SC SCFOUND SCMASK SCMSG SCPRTEXP SCPRTGOT SCPRTLINE SCPRTLINE SCPRTLNG SCPRTNAME SCPRTNUM SCPSW	TYPE I U X U C C C C C F	VALUE 00000200 0000009 000010F0 0000000A 00000328 00001097 000010A7 00001054 00000055 00001081 00001064 000010E8	LENGTH 2 1 1 1 1 1 1 1 8 3 4	164 533 506 534 251 486 489 481 491 484	129 275 262 234 246 279 286 491 288 272	160 282 289	161	162									
C CFOUND CMASK CMSG CPRTEXP CPRTGOT CPRTLI NE CPRTLNG CPRTNAME CPRTNUM	U X U U C C C C C	0000009 000010F0 0000000A 00000328 00001097 000010A7 00001054 00000055 00001081 00001064	1 1 1 1 1 16 1 8 3	533 506 534 251 486 489 481 491 484 482	275 262 234 246 279 286 491 288 272	282	101	102									
CFOUND CMASK CMSG CPRTEXP CPRTGOT CPRTLI NE CPRTLNG CPRTNAME CPRTNUM	X U C C C C C	000010F0 0000000A 00000328 00001097 000010A7 00001054 00000055 00001081 00001064	1 8 3	506 534 251 486 489 481 491 484 482	262 234 246 279 286 491 288 272												
CMSG CPRTEXP CPRTGOT CPRTLI NE CPRTLNG CPRTNAME CPRTNUM	C	00000328 00001097 000010A7 00001054 00000055 00001081 00001064	1 8 3	251 486 489 481 491 484 482	246 279 286 491 288 272	289											
CPRTEXP CPRTGOT CPRTLI NE CPRTLNG CPRTNAME CPRTNUM	C	00001097 000010A7 00001054 00000055 00001081 00001064	1 8 3	486 489 481 491 484 482	279 286 491 288 272	289											
CPRTGOT CPRTLI NE CPRTLNG CPRTNAME CPRTNUM	C	000010A7 00001054 00000055 00001081 00001064	1 8 3	489 481 491 484 482	286 491 288 272	289											
CPRTLI NE CPRTLNG CPRTNAME CPRTNUM	C	00001054 00000055 00001081 00001064	1 8 3	481 491 484 482	491 288 272	289											
CPRTLNG CPRTNAME CPRTNUM	C	00000055 00001081 00001064	1 8 3	491 484 482	288 272	289											
CPRTNAME CPRTNUM	C	$00001081 \\ 00001064$	3	484 482	272												
CPRTNUM	C	00001064	3	482													
					970												
Crsw	r	OOOOTOEO	4	505	270 259	682	714	746	778	810	842	875	907	939	973	1005	1037
				505	1073	1105	1137	1169	1201	1233	1265	1298	1330	1362	1394	1428	1460
					1492	1524	1560	1592	1624	1656	1688	1720	1752	1785	1817	1849	1881
					1913	1947	1980	2012	2044	2077	2113	2145	2177	2209	2241	2273	2305
					2338	2370	2402	2434	2466	2498	2532	2564	2596	2629	2661	2694	2730
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					3181	3213	3246	3278	3310	3353	3385	3417	3449	3481	3513	3545	3578
					3611	3643	3675	3707	3742	3776	3809	3843	3877	3920	3952	3984	4016
					4048	4080	4112	4144	4177	4209	4241	4273	4305	4337	4372	4405	4438
	_				4472	4505	4539										
TLRO	F	0000055C	4	425	174	175	176	177		~~~							
ECNUM	C	000010D5	16	501	267	269	276	278	283	285	301	303	310	312	317	319	
6TEST	4	00000000	48	527	225												
GTESTS DIT	F	00004D0C	4	4551	216	977	904	209	911	910							
INDTEST	X	000010A9 00000430	18	496 339	268 221	277	284	302	311	318							
EOJ	Ĭ	00000430	1	415	209	342											
EOJPSW	Ď	00000530	8	413	415	JTA											
FAILCONT	Ű	00000420	1	329	292												
AILED	Ĕ	00001000	$\overline{4}$	454	331	340											
FAI LMSG	U	000003B8	1	299	241												
'AI LPSW	D	00000548	8	417	419												
FAILTEST	${f I}$	00000558	4	419	343												
B0001	F	00000288	8	193	197	198	200										
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MAGE	1	00000000	20216	0	400	4.40	4.4										
	U	00000400	1	438	439	440	441										
(64 /5	U TT	00010000	1	440 522	959	910											
Б В	U Ti	00000008 00100000	1	532 441	253	316											
BG	T	00000478	1	375	208	358											
BGCMD	Ċ	00000478 000004C6	9	405	388	389											
SGMSG	č	000004CG	95	406	382	403	380										
BGMVC	Ĭ	000004C0	6	403	386	-00											
I SGOK	I	0000048E	2	384	381												
SGRET	Ι	000004AE	4	399	392	395											
BGSAVE	F	000004B4	4	402	378	399											
EXTE6	U	000002DC	1	218	244	334											
PNAME	C	00000020	8	539	272	306											
AGE	U	00001000	1	439	000	000	070	0~~	070	070	004	007	000	000	000	004	011
RT3	C	000010BF	18	499	268	269	270	277	278	279	284	285	286	302	303	304	311
RTI 4	r	00001044	9	100	312	313	318	319	320								
RTLINE	C C	00001044 00001008	3 16	468 463	313 473	323											
RTLNG	U	00001008 0000004C	10	403 473	322	JAJ											

ASMA Ver. 0.7.0	zvector	- e6- 05- pack	arith (Zve	ctor E6	26 VRI-f packed arithmetic) 18 Jun 2024 18:57:20 Page 99
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
SYMBUL	TYPE	VALUE	LENGTH	DEFN	2267 2268 2272 2273 2296 2297 2299 2300 2304 2305 2329 2330 2332 2333 2337 2338 2361 2362 2364 2365 2369 2370 2393 2394 2396 2397 2401 2402 2425 2426 2428 2429 2433 2434 2457 2458 2460 2461 2465 2466 2489 2490 2492 2493 2497 2498 2523 2524 2526 2527 2531 2532 2555 2556 2558 2559 2563 2564 2587 2588 2590 2591 2595 2596 2620 2621 2623 2624 2628 2629 2653 2655 2656 2665 2660 2661 2685 2686 2688 2689 2689 2855 2858 2881 2881 2882 2884
R3 R4	U U	00000003 0000004	1	4687 4688	
R6 R7	U U U	00000005 00000006 0000007	1	4690 4691	786 813 818 845 851 878 883 910 915 942 949 976 981 1008 1013 1040 1049 1076 1081 1108 1113 1140 1145 1172 1177 1204 1209 1236 1241 1268 1274 1301 1306 1333 1338 1365 1370 1397 1404 1431 1436 1463 1468 1495 1500 1527 1536 1563 1568 1595 1600 1627 1632 1659 1664 1691 1696 1723 1728 1755 1761 1788 1793 1825 1852 1857 1884 1889 1916 1923 1950 1956 1983 1988 2015 2020 2047 2053 2080 2089 2116 2121 2148 2153 2180 2185 2212 2217

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERI	ENCES												
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70	A	00001488	4		4560													
70 71	A	00003408	4	2899	4623													
	A	00003488	4	2932	4624													
2	A	00003508	4	2964 2996	4625													
'3 '4	A	00003588 00003608	4	3028	4626 4627													
⁴ 5	A	00003688	4	3060	4628													
'6	A	00003708	4	3092	4629													
77	A	00003708	4 4	3126	4629													
'8	A A	00003788	4	3158	4631													
'9	A	00003888	4	3190	4632													
3	Ä	00003888	4	884	4561													
30	Ä	00001308	4	3223	4633													
30 31	Ä	00003988	4	3255	4634													
32 32	Ä	00003388 00003A08	4	3287	4635													
33	Δ	00003A88	4	3330	4636													
34 34	Ä	00003R08	4	3362	4637													
35 35	Ä	00003B88	4	3394	4638													
36	Ä	00003C08	$\dot{4}$	3426	4639													
87	A	00003C88	$\overline{4}$	3458	4640													
88	Ā	00003D08	$\overline{4}$	3490	4641													
39	Ā	00003D88	$\overline{4}$	3522	4642													
9	Ä	00001588	$\overline{4}$	916	4562													
90	Ā	00003E08	$ar{4}$	3555	4643													
91	Ā	00003E88	$\overline{4}$	3588	4644													
92	A	00003F08	4	3620	4645													
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96	A	00004108	4	3753	4649													
97	A	00004188	4	3786	4650													
98	A	00004208	4	3820	4651													
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ESTCC	Ι	00000324	4	246	236													
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NUM	H	0000004	2	529	227	266	300											
SUB	<u>A</u>	0000000	4	528	231													
TABLE	F	00004D0C	4	4553														
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					872	873	904	905	936	937	970	971	1002	1003	1034	1035	1070	
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					1717	1718	1749	1750	1782	1783	1814	1815	1846	1847	1878	1879	1910	
					1911	1944	1945	1977	1978	2009	2010	2041	2042	2074	2075	2110	2111	
					2142	2143	2174	2175	2206	2207	2238	2239	2270	2271 2405	2302	2303	2335	
					2336	2367	2368	2399	2400	2431	2432	2463	2464	2495	2496	2529	2530	
					2561 2760	2562 2791	2593 2702	2594 2823	2626 2824	2627 2855	2658 2856	2659 2887	2691	2692 2919	2727 2020	2728 2052	2759 2053	
					2760 2984	2791 2985	2792 3016	3017	2824 3048	2855 3049	2856 3080	2887 3081	2888 3112	3113	2920 3146	2952 3147	2953	
					3179	3210	3211	3243	3244	3275	3276	3307	3308	3350	3351	3382	3178 3383	
					3414	3415	3446	3447	3478	3479	3510	3511	3542	3543	3575	3576	3608	
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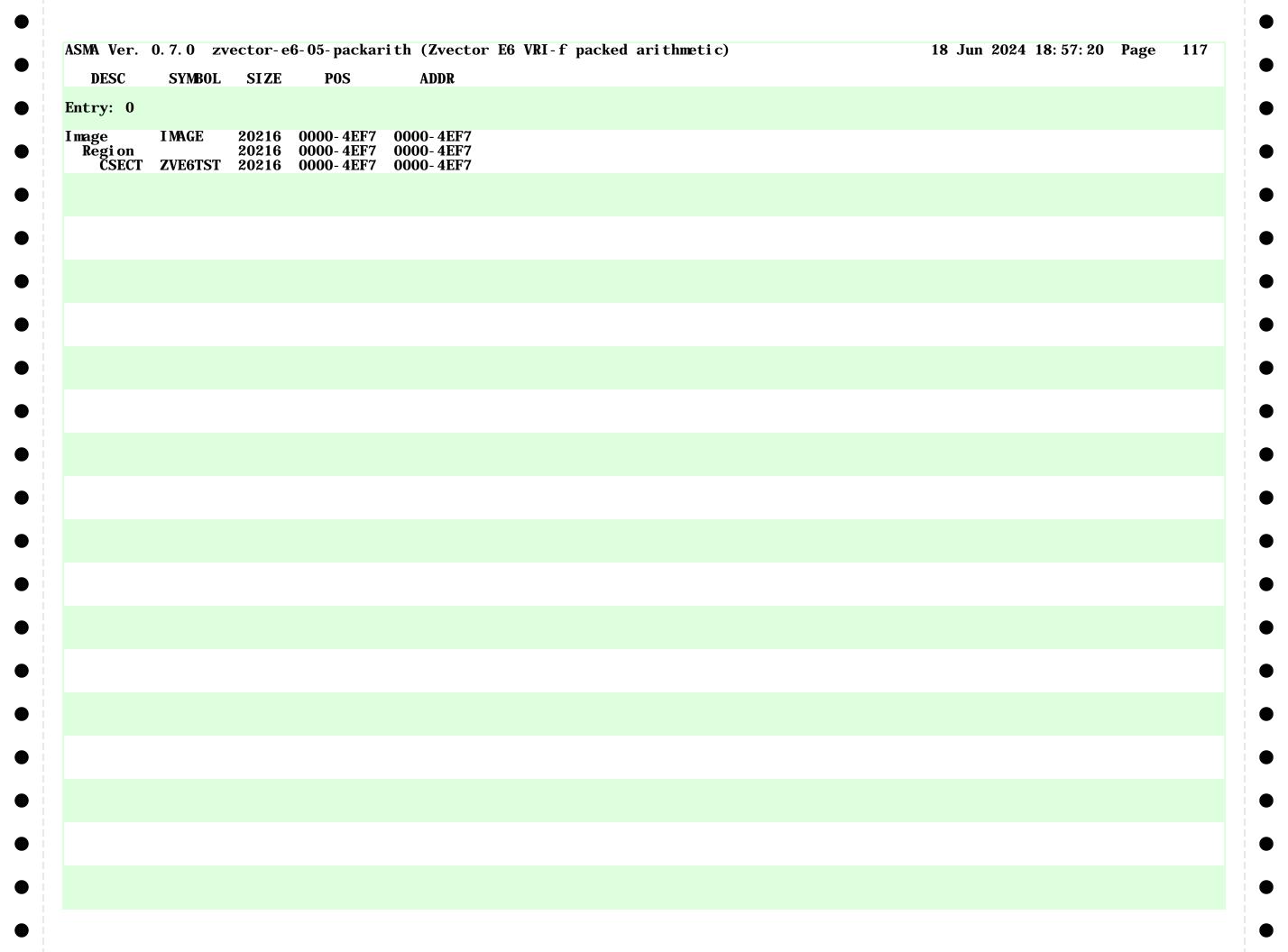
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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES											
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					4046 4270	4077 4271	4078 4302	4109 4303	4110 4334	4141 4335	4142 4369	4174 4370	4175 4402	4206 4403	4207 4435	4238 4436	4239 4469
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110	U	0000000A	1	4715													
711 712	U U	0000000B 000000C	1	4716 4717													
13	Ŭ	000000D	Î	4718													
714 715	U	0000000E 0000000F	1	4719 4720													
16	Ü	0000001	1	4721													
117	U	00000011	1	4722													
718 719	U U	00000012 00000013	1	4723 4724													
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'11NPUT '10UTPUT	C X	00001138 00001108	16 16	516 513	240	680	712	744	776	808	840	873	905	937	971	1003	1035
10011 01	Λ	00001108	10	313	1071	1103	1135	1167	1199	1231	1263	1296	1328	1360	1392	1426	1458
					1490	1522	1558	1590	1622	1654	1686	1718	1750	1783	1815	1847	1879
					1911 2336	1945 2368	1978 2400	2010 2432	2042 2464	2075 2496	2111 2530	2143 2562	2175 2594	2207 2627	2239 2659	2271 2692	2303 2728
					2760	2792	2824	2856	2888	2920	2953	2985	3017	3049	3081	3113	3147
					3179 3609	3211 3641	3244 3673	3276 3705	3308 3740	3351 3774	3383 3807	3415 3841	3447 3875	3479 3918	3511 3950	3543 3982	3576 4014
					4046	4078	4110	4142	4175	4207	4239	4271	4303	4335	4370	4403	4436
70	TI	0000000	1	4707	4470	4503	4537	711	700	740	771	~~~	000	007	007	000	000
2	U	00000002	1	4707	675 872	679 900	707 904	711 932	739 936	743 966	771 970	775 998	803 1002	807 1030	835 1034	839 1066	868 1070
					1098	1102	1130	1134	1162	1166	1194	1198	1226	1230	1258	1262	1291
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					1717	1745	1749	1778	1782	1810	1814	1842	1846	1874	1878	1906	1910
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					2561	2589	2593	2622	2626	2654	2658	2687	2691	2723	2727	2755	2759
					2787 2984	2791 3012	2819 3016	2823 3044	2851 3048	2855 3076	2883 3080	2887 3108	2915 3112	2919 3142	2948 3146	2952 3174	2980 3178
					3206	3210	3239	3243	3271	3275	3303	3307	3346	3350	3378	3382	3410
					3414 3636	3442 3640	3446 3668	3474 3672	3478 3700	3506 3704	3510 3735	3538 3739	3542 3769	3571 3773	3575 3802	3604 3806	3608 3836
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					4073	4077	4105	4109	4137	4141	4170	4174	4202	4206	4234	4238	4266
					4270 4498	4298 4502	4302 4532	4330 4536	4334	4365	4369	4398	4402	4431	4435	4465	4469
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[21 [22	U U	00000015 00000016	1	4726 4727													
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ASMA Ver. 0.7.0	zvector	- e6- 05- pack	arith (Zve	ctor E6	VRI - f	packe	d arit	hmetic	•)				18 Jun	2024	18: 57:	20 Pa	ge 108
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES											
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V2VALUE V2_1 V2_10 V2_100 V2_101 V2_102 V2_103 V2_104 V2_105 V2_106 V2_107 V2_108 V2_109 V2_11 V2_110 V2_111 V2_111 V2_112 V2_113 V2_114 V2_115	F F F F F F F F F F F F F F F F F F F	00000010 00001198 00001618 00004318 00004398 00004418 00004498 00004518 00004598 00004618 00004698 00004718 00004798 00001698 00004818 00004918 00004998 00004418	8 8 8 8 8 8 8 8 8 8 8 8 8	536 666 957 3904 3936 3968 4000 4032 4064 4096 4128 4161 4193 989 4225 4257 4289 4321 4356 4389	4266 4497 673 964 3911 3943 3975 4007 4039 4071 4103 4135 4168 4200 996 4232 4264 4296 4328 4363 4396	4297 4498	4298 4531	4329 4532	4330	4364	4365	4397	4398	4430	4431	4464	4465
V2_116 V2_117 V2_118 V2_119 V2_12 V2_13 V2_14 V2_15 V2_16 V2_17 V2_18 V2_19 V2_2 V2_20 V2_21 V2_21 V2_22 V2_23 V2_23 V2_24	F F F F F F F F F F	00004R38 00004B18 00004C18 00004C98 00001718 00001798 00001818 00001898 00001918 00001A18 00001A18 00001B18 00001B18 00001B18 00001B18 00001C18 00001C98 00001D18	8 8 8 8 8 8 8 8 8 8 8 8	4422 4456 4489 4523 1021 1057 1089 1121 1153 1185 1217 1249 698 1282 1314 1346 1378	4429 4463 4496 4530 1028 1064 1096 1128 1160 1192 1224 1256 705 1289 1321 1353 1385 1419												

CVMDOT	TVDE	-			VRI-f packed arithmetic)	Page	10
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27	F	00001E98	8	1508	1515		
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_3	F	00001298	8	730	737		
30	F	00002018	8	1608	1615		
_31	<u>F</u>	00002098	8	1640	1647		
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_33	F	00002198	8	1704	1711		
_34	F	00002218	8	1736	1743		
_35	F	00002298	8	1769	1776		
_36	F	00002318	8	1801	1808		
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_40 _ 17	F	00002818	8	2161	2168		
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_ 49	F	00002918	8	2225	2232		
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51	F	00002A98	8	2289	2296		
52	F	00002B18	8	2322	2329		
51 52 53	F	00002B98	8	2354	2361		
_54	F	00002C18	8	2386	2393		
55	F	00002C98	8	2418	2425		
55 5 6	F	00002D18	8	2450	2457		
5_57	F	00002D98	8	2482	2489		
_58	F	00002E18	8	2516	2523		
59	F	00002E98	8	2548	2555		
_6 _60	F	00001418	8	826	833		
_60	F	00002F18	8	2580	2587		
61 62	F	00002F98	8	2613	2620		
_62	<u>F</u>	00003018	8	2645	2652		
_63 _64	F	00003098	8	2678	2685		
_64	F	00003118	8	2714	2721		
65	<u>F</u>	00003198	8	2746	2753		
_66 _67 _68	F	00003218	8	2778	2785		
_b/	F	00003298	8	2810	2817		
_68	F	00003318	8	2842	2849		
2_ 69	F	00003398	8	2874	2881		
_7	F	00001498	8	859	866		
_70 _71	r r	00003418	8	2906	2913		
2.71	r r	00003498	8	2939	2946		
2.72	r F	00003518	8	2971	2978		
_73 _74	F F	00003598 00003618	8 8	3003 3035	3010 3042		
14	Г	9100000	ð	3U33	0046		

ASMA Ver. 0.7.0	zvector	- e6- 05- pack	arith (Zvec	ctor E6	VRI - f	packe	d arit	hmeti c)				18 Jun	2024	18: 57:	20 Pa	ige	111
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES												
					2560 2789 2983 3208 3413 3638 3839 4075	2591 2790 3014 3209 3444 3639 3872 4076	2592 2821 3015 3241 3445 3670 3873 4107	2624 2822 3046 3242 3476 3671 3915 4108	2625 2853 3047 3273 3477 3702 3916 4139	2656 2854 3078 3274 3508 3703 3947 4140	2657 2885 3079 3305 3509 3737 3948 4172	2689 2886 3110 3306 3540 3738 3979 4173	2690 2917 3111 3348 3541 3771 3980 4204	2725 2918 3144 3349 3573 3772 4011 4205	2726 2950 3145 3380 3574 3804 4012 4236	2757 2951 3176 3381 3606 3805 4043 4237	2758 2982 3177 3412 3607 3838 4044 4268	
					4269 4500	4300 4501	4301 4534	4332 4535	4333	4367	4368	4400	4401	4433	4434	4467	4468	
V3VALUE V3_1 V3_10	F F F	00000018 000011A0 00001620	8 8 8	537 667 958	676 967	4501	4334	4333										
V3_100 V3_101 V3_102	F F F	00004320 000043A0 00004420	8 8 8	3905 3937 3969	3914 3946 3978													
V3_103 V3_104 V3_105 V3_106	F F F	000044A0 00004520 000045A0 00004620	8 8 8 8	4001 4033 4065 4097	4010 4042 4074 4106													
V3_107 V3_108 V3_109	F F F	000046A0 00004720 000047A0	8 8 8	4129 4162 4194	4138 4171 4203													
V3_11 V3_110 V3_111 V3_112	F F F	000016A0 00004820 000048A0 00004920	8 8 8	990 4226 4258 4290	999 4235 4267 4299													
V3_113 V3_114 V3_115	F F F	000049A0 00004A20 00004AA0	8 8 8	4322 4357 4390	4331 4366 4399													
V3_116 V3_117 V3_118 V3_119	F F F	00004B20 00004BA0 00004C20 00004CA0	8 8 8 8	4423 4457 4490 4524	4432 4466 4499 4533													
V3_119 V3_12 V3_13 V3_14	F F F	00004CA0 00001720 000017A0 00001820	8 8 8	1022 1058 1090	1031 1067 1099													
V3_15 V3_16 V3_17	F F F	000018A0 00001920 000019A0	8 8 8	1122 1154 1186	1131 1163 1195													
V3_18 V3_19 V3_2 V3_20	F F F	00001A20 00001AA0 00001220 00001B20	8 8 8	1218 1250 699 1283	1227 1259 708 1292													
V3_20 V3_21 V3_22 V3_23	F F F	00001B20 00001BA0 00001C20 00001CA0	8 8 8	1315 1347 1379	1324 1356 1388													
V3_24 V3_25 V3_26 V3_27	F F F F	00001D20 00001DA0 00001E20 00001EA0	8 8 8	1413 1445 1477 1509	1422 1454 1486 1518													
V3_27 V3_28 V3_29 V3_3	F F F	00001EA0 00001F20 00001FA0 000012A0	8 8 8	1545 1577 731	1518 1554 1586 740													
V3_30 V3_31	F F	00002020 000020A0	8	1609 1641	1618 1650													

MACRO	DEFN	REFERE	NCES															
CHECK FTABLE	74 615	183 4552																
RI_F	555	656 1207 1759	688 1239 1791	720 1272 1823	752 1304 1855	784 1336 1887	816 1368 1921	849 1402 1954	881 1434 1986	913 1466 2018	947 1498 2051 2603	979 1534 2087	1011 1566 2119	1047 1598 2151	1079 1630 2183	1111 1662 2215	1143 1694 2247	1173 1720 2279
		2312 2864 3423 3990	2344 2896 3455 4022	2376 2929 3487 4054	2408 2961 3519 4086	2440 2993 3552 4118	2472 3025 3585 4151	2506 3057 3617 4183	2538 3089 3649 4215	2570 3123 3681 4247	3155 3716 4279	2635 3187 3750 4311	2668 3220 3783 4346	2704 3252 3817 4379	2736 3284 3851 4412	2768 3327 3894 4446	2800 3359 3926 4479	283 339 395 451
		3330	4022	4034	4000	4110	4131	4103	4213	4647	4273	4311	4340	4373	4412	4440	4473	431



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STMI	FILE NAME	
/home/tn5	529/sharedvfp/tests/zvector-e6-05-packarith.asm	
** NO ERRORS FO	DUND **	