C	OBJECT CODE	ADDR1	ADDR2	STMT
				2 *********************
				3 * 4 * Zvector E6 instruction tests for VRI-f encoded:
				4 * Zvector E6 instruction tests for VRI-f encoded: 5 *
				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
				12 * EO/E VSDP - VECTOR SHIFT AND DIVIDE DECIMAL 13 *
				14 * James Wekel June 2024
				15 ************************************
				17 **********************
				18 *
				19 * basic instruction tests 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
				31 * *Testcase VECTOR E6 VRI-f packed arithmetic instructions 32 * *
				33 * * Zvector E6 tests for VRI-f encoded packed decimal
				34 * * 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.
				46 * * # Exceptions are NOT tested. 47 * * #
				48 * *
				49 * mainsize 2 50 * numcpu 1
				50 * numcpu 1 51 * sysclear
				52 * archl vl z/Arch
				53 * 54 * leadeane "S(testnath)/zweeten of 05 neckenith cone" 0v0
				54 * loadcore "\$(testpath)/zvector-e6-05-packarith.core" 0x0 55 *
				56 * diag8cmd enable # (needed for messages to Hercules console)

LOC	OBJECT CODE	ADDR1	ADDR2	STM				
				58 59	* di ag80	emd	disable # (reset b	ack to default)
				60 61	* *Done ******	*****	********	***********
00000		00000000 00000000	00004EF7	64		START USI NG	0 ZVE6TST, RO	Low core addressability
		00000140	00000000	65 66	SVOLDPSW	EQU	ZVE6TST+X' 140'	z/Arch Supervisor call old PSW
00000 001A0	00000001 80000000	00000000	000001A0	68 69		DC	ZVE6TST+X' 1A0' X' 0000000180000000'	z/Architecure RESTART PSW
	00000000 00000200			70		DC	AD(BEGIN)	
	00020001 80000000 00000000 0000DEAD	000001B0	000001D0	72 73 74			ZVE6TST+X' 1D0' X' 0002000180000000' AD(X' DEAD')	z/Architecure PROGRAM CHECK PSW
0001E0		000001E0	00000200	76 77		ORG	ZVE6TST+X' 200'	Start of actual test program

LCTL RO, RO, CTLRO

Reload updated CRO

000004AC

117

00000222 B700 82AC

В

0000036E

199

00000302 47F0 816E

FAILCONT

00000404	D200 821F 1000	0000041F	00000000	310 MSGMVC	MVC	MSGMSG(0), O(R1)	Executed instruction
00000416 0000041F	D4E2C7D5 D6C8405C 40404040 40404040			312 MSGCMD 313 MSGMSG 314	DC DC	C' MSGNOH * ' CL95' '	*** HERCULES MESSAGE COMMAND *** The message text to be displayed

ASMA Ver.	0. 7. 0 zvector- e6-0	05- packari tl	ı (Zvector	E6 VI	RI-f pack	ed arit	thmetic)	07 Jun 2024 11: 16: 59 Page 9
LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
				316 317 318	******	****** Normal *****	************* completion or *******	**************************************
	00020001 80000000				EOJPSW			0180000000', AD(0)
0000490	B2B2 8280		00000480	322	ЕОЈ	LPSWE	EOJPSW	Normal completion
00000498	00020001 80000000			324	FAI LPSW	DC	OD' O' , X' 000200	018000000', AD(X'BAD')
000004A8	B2B2 8298		00000498	326	FAILTEST	LPSWE	FAILPSW	Abnormal termination
				328 329 330	*****************	****** Worki 1 *****	**************************************	*************
				000				
000004AC					CTLRO	DS DS	F F	CRO
000004B0				333 334				
000004B4	00004D0C			335	E6TADR	DC	A(E6TESTS)	address of E6 test table
000004B8 000004B8 000004BC	00000001 00000003			337 338 339		LTORG	, =F' 1' =XL4' 3'	Literals pool
000004C0 000004C2	0000 005F			340 341 342			=H' 0' =AL2(L' MSGMSG)	
				343 344	*	some o	constants	
		00000400 00001000	00000001 00000001	345	K PAGE	EQU EQU	1024 (4*K)	One KB Size of one page
		0001000 0010000	00000001 00000001	347 348	K64	EQU EQU	(64*K) (K*K)	64 KB 1 MB
		AABBCCDD 000000DD	00000001 00000001		REG2PATT REG2LOW		X' AABBCCDD' X' DD'	Polluted Register pattern (last byte above)

	0. 7. 0 zvector- e6-	-			f packe	d arit	thmetic)	07 Jun 2024 11: 16: 59 Page
LOC	OBJECT CODE	ADDR1	ADDR2	STMI				
				455 ** 456 *		****** ros to	************** • help build to	**************************************
				457 *- 458 *				ld test tables
				459 **	*****	****	*******	**************************************
				460 461		MACRO VRI_F	&I NST, &V2, &V3,	
				462 · * 463 · *				&INST - VRI-f instruction under test &v2 - binary DW value for V2
				464 . * 465 . *				&v3 - binary DW value for V3 &i4 - i4 field
				466 . * 467 . *				&m5 - m5 field &CC - expected CC
				468 . *		T CIT A	0.000(4) 0.000 1	•
				469 470 &X	(CC(1)	SETA	7	nas mask values for FAILED condition codes CC != 0
				471 &X 472 &X	CC(3)	SETA SETA	13	CC != 1 CC != 2
				473 &X 474	(CC(4)	SETA	14	CC != 3
				475 476 &T			&TNUM &TNUM+1	
				477				
				478 479		DS USING	0FD *, R 5	base for test data and test routine
				480 481 T&	TNUM	DC	A(X&TNUM)	address of test routine
				482 483		DC DC	H' &TNUM' X' 00'	test number
				484 485		DC	HL1' &I 4' HL1' &M5'	i 4 m5
				486		DC	HL1' &CC'	cc
				487 488 V2	_&TNUM	DC DC	FD' &V2'	l)' cc failed mask binary value for v2 packed decimal
				489 V3 490	_&TNUM	DC DC	FD' &V3' CL8' &INST'	binary value for v3 packed decimal instruction name
				491 492 RF	A&TNUM	DC DC	A(16) A(RE&TNUM)	result length result address
				493 . * 494 *			(INSTRUCTION UNDER TEST ROUTINE
				495 X&			OF	
				496 497		CVDG	R2, V2_&TNUM R2, V2PACKED	convert v2
				498 499		VL	V2, V2PACKED	
				500 501		LG CVDG	R2, V3_&TNUM R2, V3PACKED	convert v3
				502 503		VL	V3, V3PACKED	
				504		&I NST	V1, V2, V3, &I 4, &	RM5 test instruction
				505 506		VST	V1, V10UTPUT	save result
				507 508		EPSW ST	R2, R0 R2, CCPSW	exptract psw to save CC
				509		BR	R11	

LOC	0.7.0 zvector-e6- OBJECT CODE	ADDR1	ADDR2	STMT		cu uii	· Cime Ci C)	07 Jun 2024 11: 16: 59	iuge	14
						DC	OF			
				513 514	RE&TNUM	DROP MEND	R5			

ASMA Ver.	0. 7. 0 zvector- e6-0	5- packari t	h (Zvector	E6 VRI-f pack	ed ari	thmetic)	07 Jun 2024 11: 16: 59 Page	16
LOC	OBJECT CODE	ADDR1	ADDR2	STMI				
				539 ******	*****	******	***********	
				540 * 541 ******	E6 VR	I_F tests	***********	
		00000000	00004EF7	542 ZVE6TST	CSECT	,		
00001188				543	DS	OF		
				545 546 *	PRINT	DATA		
				547 *	E671		OR ADD DECIMAL	
				548 * 549 *	E673 E678		OR SUBTRACT DECIMAL OR MULTIPLY DECIMAL	
				550 *	E679	VMSP - VECT	OR MULTIPLY AND SHIFT DECIMAL	
				551 * 552 *	E67A E67B		OR DIVIDE DECIMAL OR REMAINDER DECIMAL	
				553 * 554	E67E		OR SHIFT AND DIVIDE DECIMAL	
				555 *	VRI_F	instr, v2, v3,		
				556 * 557		followed by	16 byte expected result	
				558 *				
				559 * VAP 560 *	- VE	CTOR ADD DECI	MAL 	
				561 * VAP si			g 1 0	
00001188				562 563+	VRI_F DS	VAP, +10, +12, 6 OFD	7, 1, 2	
00001188	00001100	00001188		564+	USING		base for test data and test routine	
	000011B8 0001			565+T1 566+	DC DC	A(X1) H' 1'	address of test routine test number	
0000118E 0000118F				567+ 568+	DC DC	X' 00' HL1' 7'	i 4	
0000118F				569+	DC DC	HL1' 1'	m5	
$00001191 \\ 00001192$	02 0D			570+ 571+	DC DC	HL1' 2' HL1' 13'	cc cc failed mask	
	00000000 0000000A			572+V2_1	DC	FD' +10'	binary value for v2 packed decimal	
	00000000 0000000C E5C1D740 40404040			573+V3_1 574+	DC DC	FD' +12' CL8' VAP'	binary value for v3 packed decimal instruction name	
	00000010			575+	DC	A(16)	result length	
000011B4	000011F4			576+REA1 577+*	DC	A(RE1)	result address INSTRUCTION UNDER TEST ROUTINE	
000011B8				578+X1	DS	OF		
	E320 5010 0004 E320 8F57 002E		00001198 00001157	579+ 580+	LG CVDG	R2, V2_1 R2, V2PACKED	convert v2	
000011C4	E720 8F57 0006		00001157	581 +	VL	V2, V2PACKED		
	E320 5018 0004 E320 8F67 002E		000011A0 00001167	582+ 583+	LG CVDG	R2, V3_1 R2, V3PACKED	convert v3	
000011D6	E730 8F67 0006		00001107	584 +	VL	V3, V3PACKED		
	E612 3010 7071 E710 8F08 000E		00001108	585+ 586+	VAP VST	V1, V2, V3, 7, 1 V1, V10UTPUT	test instruction save result	
000011E8	B98D 0020			587 +	EPSW	R2, R0	exptract psw	
	5020 8EE8 07FB		000010E8	588+ 589+	ST BR	R2, CCPSW R11	to save CC return	
000011F4				590+RE1	DC	OF		
	00000000 00000000 00000000 0000022C			591+ 592	DROP DC	R5 XL16' 0000000	0000000000000000000022C'	

VL

LG

CVDG

V2, V2PACKED R2, V3 3

R2, V3PACKED

convert v3

000012C4

000012CA

000012D0

E720 8F57 0006

E320 5018 0004

E320 8F67 002E

00001157

000012A0

00001167

645+

646+

647 +

ASMA Ver. 0.7.0 zvector-e6-05-packarith (Zvector E6 VRI-f packed arithmetic) **OBJECT CODE** ADDR1 ADDR2 **STM** 756+ DS **OFD** USING *, R5 00001488 757+ base for test data and test routine 000014B8 758+T7 DC A(X7) address of test routine DC H' 7' 0007 759+ test number X' 00' 00 760 +DC 9F HL1' 159' 761+ DC i 4 DC 01 762 +HL1'1' mб 02 763+ DC HL1'2' \mathbf{cc} DC HL1' 13' OD cc failed mask 764+ 765+V2 7 DC 01634578 5D89FFFF binary value for v2 packed decimal 00000000 00000001 766+V3 7 DC FD' +1' binary value for v3 packed decimal E5C1D740 40404040 DC CL8' VAP' instruction name 767+ 00000010 768+ DC A(16) result length result address 769+REA7 DC A(RE7) 000014F4 770+* INSTRUCTION UNDER TEST ROUTINE 771+X7 DS $\mathbf{0F}$ E320 5010 0004 00001498 772+ LG R2, V2 7 convert v2 R2, V2PACKED E320 8F57 002E 00001157 773+ **CVDG** V2, V2PACKED E720 8F57 0006 00001157 774+ VL E320 5018 0004 000014A0 775+ LG R2, V3 7 convert v3 **CVDG** R2, V3PACKED E320 8F67 002E 00001167 776+ E730 8F67 0006 00001167 777+ VL V3, V3PACKED V1, V2, V3, 159, 1 E612 3019 F071 778+ **VAP** test instruction E710 8F08 000E 00001108 779+ **VST** V1, V10UTPUT save result B98D 0020 **780**+ **EPSW R2**, **R0** exptract psw R2, CCPSW 5020 **SEE8** 000010E8 **781**+ ST to save CC **07FB** 782+ BR **R11** return 783+RE7 DC 0F 784+ **DROP R5** 0000000 00000100 XL16' 000000000000010000000000000000000C' **785** DC 0000000 000000C **786** 787 788+ DS **OFD** USING *, R5 00001508 789+ base for test data and test routine A(X8) 00001538 790+T8 DC address of test routine 0008 791+ DC H' 8' test number DC X' 00' 00 792+ 793+ DC HL1' 159' 9F i 4 794+ HL1'1' 01 DC **m**5 HL1'2' 02 795 +DC \mathbf{cc} **OD** 796+ DC HL1' 13' cc failed mask 797+V2 8 FD' +9999999999999999999' \ DC binary value for v2 packed decimal 00001518 01634578 5D89FFFF 798+V3 8 DC FD' +10000000000000000' \(\frac{1}{2}\) 002386F2 6FC10000 binary value for v3 packed decimal DC CL8' VAP' E5C1D740 40404040 799+ instruction name 00000010 +008 DC A(16) result length 801+REA8 DC 00001574 A(RE8) result address 802+* INSTRUCTION UNDER TEST ROUTINE 803+X8 00001538 DS $\mathbf{0F}$ 00001518 LG R2, V2_8 00001538 E320 5010 0004 804+ convert v2 R2, V2PACKED 0000153E E320 8F57 002E 00001157 805+ **CVDG** 00001544 E720 8F57 0006 00001157 **806**+ VL V2, V2PACKED E320 5018 0004 LG R2, V3 8 0000154A 00001520 807 +convert v3

EPSW

ST

BR

R2, R0

R11

R2, CCPSW

exptract psw

return

to save CC

910+

911+

912+

000010E8

000016E8

000016EC

000016F0

B98D 0020

5020 **8EE8**

07FB

USING *, R5

base for test data and test routine

00001888

1019 +

0000195C E612 3010 7073

00001962 E710 8F08 000E

00001968 B98D 0020

ASMA Ver.	0. 7. 0 zvector- e6- 0	5- packari t l	h (Zvector	E6 VRI-f pack	ed arit	thmetic)	07 Jun 2024 11: 16: 59 Page 25
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
Loc	OBSECT CODE	HDDRI	IDDIC	SIVI			
00001888	000018B8			1020+T15	DC	A(X15)	address of test routine
0000188C	000F			1021+	DC	H' 15'	test number
0000188E	00			1022+	DC	X' 00'	
0000188F	01			1023+	DC	HL1' 1'	i 4
00001890	01			1024+	DC	HL1' 1'	m5
00001891	03			1025+	DC	HL1' 3'	cc
00001892	OE			1026+	DC	HL1' 14'	cc failed mask
00001898	0000000 000000A			1027+V2 15	DC	FD' +10'	binary value for v2 packed decimal
000018A0	FFFFFFF FFFFFF4			1028+V3_15	DC	FD' - 12'	binary value for v3 packed decimal
000018A8	E5E2D740 40404040			1029+	DC	CL8' VSP'	instruction name
000018B0	00000010			1030+	DC	A(16)	result length
000018B4	000018F4			1031+REA15	DC	A(RE15)	result address
				1032+*		()	INSTRUCTION UNDER TEST ROUTINE
000018B8				1033+X15	DS	OF	
000018B8	E320 5010 0004		00001898	1034+	LG	R2, V2_15	convert v2
000018BE	E320 8F57 002E			1035+		R2, V2PACKED	
000018C4	E720 8F57 0006		00001157	1036+	VL	V2, V2PACKED	
000018CA	E320 5018 0004		00001107 000018A0	1037+	LG	R2, V3_15	convert v3
000018D0	E320 8F67 002E			1038+	CVDG	R2, V3PACKED	
000018D6	E730 8F67 0006		00001167	1039+	VL	V3, V3PACKED	
000018DC	E612 3010 1073		00001107	1040+	VSP	V1, V2, V3, 1, 1	test instruction
000018E2	E710 8F08 000E		00001108	1041+	VST	V1, V2, V3, 1, 1 V1, V10UTPUT	save result
000018E8	B98D 0020		00001100	1042+		R2, R0	exptract psw
000018EC	5020 8EE8		000010E8	1042+	ST	R2, CCPSW	to save CC
000018E0	07FB		OOOOTOLO	1044+	BR	R11	return
000018F4	OILD			1045+RE15	DC	OF	1 CCUI II
000018F4				1046+	DROP	R5	
000018F4	0000000 00000000			1047	DC		000000000000000002C'
000018FC	00000000 0000002C			1011	20	11210 0000000000000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				1048			
				1049	VRI F	VSP, +10, -12, 7, 1, 2	
00001908				1050+	DS	OFD	
00001908		00001908		1051+	USING		base for test data and test routine
	00001938			1052+T16	DC	A(X16)	address of test routine
0000190C	0010			1053+	DC	H' 16'	test number
0000190E				1054+	DC	X' 00'	
0000190F				1055+	DC	HL1' 7'	i 4
00001910				1056+	DC	HL1' 1'	m5
				1057+	DC	HL1' 2'	cc
00001912	OD			1058+	DC	HL1' 13'	cc failed mask
00001918	00000000 0000000A			1059+V2 16	DC	FD' +10'	binary value for v2 packed decimal
00001920	FFFFFFF FFFFFF4			1060+V3_16	DC	FD' - 12'	binary value for v3 packed decimal
	E5E2D740 40404040			1061+	DC	CL8' VSP'	instruction name
00001930	00000010			1062+	DC	A(16)	result length
00001934	00001974			1063+REA16	DC	A(RE16)	result address
				1064+*		\ <i>-</i> /	INSTRUCTION UNDER TEST ROUTINE
00001938				1065+X16	DS	OF	
	E320 5010 0004		00001918	1066+	LG	R2, V2_16	convert v2
0000193E	E320 8F57 002E			1067+		R2, V2PACKED	
00001944	E720 8F57 0006			1068+	VL	V2, V2PACKED	
	E320 5018 0004		00001107	1069+	LG	R2, V3_16	convert v3
	E320 8F67 002E			1070+		R2, V3PACKED	
	E730 8F67 0006			1071+	VL	V3, V3PACKED	
	F612 3010 7073		30001107	1071			test instruction

VSP

V1, V2, V3, 7, 1

VST V1, V10UTPUT

EPSW R2, R0

test instruction

save result

exptract psw

1072+

1074+

00001108 1073+

1128+*

INSTRUCTION UNDER TEST ROUTINE

DC

1182 +

00001B0C

0014

H' 20'

test number

VST

V1. V10UTPUT

save result

00001108

1234+

00001BE2

E710 8F08 000E

CL8' VSP'

instruction name

DC

1286 +

00001CA8

E5E2D740 40404040

1386+REA26

1387+*

1389+

1390+

1391 +

00001E18

00001157

00001157

1388+X26

DC

DS

LG

CVDG

A(RE26)

R2, V2 26

R2, V2PACKED

V2, V2PACKED

0F

result address

convert v2

INSTRUCTION UNDER TEST ROUTINE

00001E34

00001E38

00001E38

00001E3E

00001E44

00001E74

E320 5010 0004

E320 8F57 002E

E720 8F57 0006

DC

1444+

00001F0C

001C

H' 28'

test number

EPSW

ST

BR

R2, R0

R11

R2, CCPSW

exptract psw

return

to save CC

1497+

1498+

1499 +

000010E8

00001FE8

00001FEC

00001FF0

B98D 0020

5020 **8EE8**

07FB

LG

R2, V2 31

convert v2

000020B8

E320 5010 0004

00002098

1553+

DC

1607 +

00002190

01

HL1' 1'

m5

DC

note RDC

1662

00002274

DS

1713+X36

0F

DC

1766 +

X' 00'

0000240E

DC

1922

00002674

0000267C

0000000 00000009

9999999 999999F

EPSW R2, R0

R2, CCPSW

exptract psw

to save CC

2082+

2083+

000010E8

000028E8

000028EC

B98D 0020

5020 SEE8

DS

2137+X49

000029B8

0F

BR

R11

return

2245 +

00002B70

07FB

2297+*

INSTRUCTION UNDER TEST ROUTINE

DOC OBJECT CODE ADDR1 ADDR2 STMT	NE
1002EBB 00000010	NE
1002EB8	NE
1002EBB	ME
0002EB8	ME
0002EB8 E320 5010 0004 00002E98 2461+	NE
0002EBE E320 8F57 002E 00001157 2463+	
0002EBE E320 8F57 002E 00001157 2463+	
1002ECA E320 5018 0004 00002EA0 2464+ LG R2, V3 59 Convert v3 1002ED6 E320 8F67 002E 00001167 2465+ CVDG R2, V3PACKED 1002ED6 E730 8F67 0006 00001167 2466+ VL V3, V3PACKED 1002ED6 E612 30D9 F07A 2467+ VDP V1, V2, V3, 159, 13 test instruction 1002ECE E612 30D9 F07A 2468+ VST V1, V10UTPUT save result 1002ECE E710 8F08 000E 2468+ EPSW R2, R0 exptract psw 1002ECE E700 8ECB 000010ES 2470+ ST R2, CCPSW to save CC 1002EF4 2472+RE59 DC OF 1002EF4 0000000 00000000 2474 DC XL16' 000000000000000000000000000000000000	
0002ED0	
002EDE	
002EDC E612 30D9 F07A	
002EEZ E710 8F08 000E	
002EE8 B98D 0020 2469+ EPSW R2, R0 exptract psw 002EEC 5020 8EE8 000010E8 2470+ ST R2, CCPSW to save CC 002EF4 002EF4 0000000 0000000 0000000 0000000 000000	
002EEC 5020 8EE8	
002EF0 07FB 2471+ BR R11 return 002EF4 002000 0000000 00000000 2473+ DROP R5 002EFC 0999999 999999C 2474 DC XL16'0000000000000000000009999999999999999	
002EF4	
002EF4	
002EF4 00000000 00000000 2474 DC XL16' 000000000000000000000000000000000000	
002F0C 0999999 999999C 2476 2476 VRI_F VDP, -9999999999999, -1, 159, 3, 2 m5=3(P1	
2475 2476	
2476 VRI_F VDP, -9999999999999, -1, 159, 3, 2 m5=3(P1	
002F08 2477+ DS OFD 002F08 002F08 00002F38 2478+ USING *, R5 base for test data and test 002F0C 003C 2480+ DC H' 60' test number 002F0E 00 2481+ DC X' 00' 002F0F 9F 2482+ DC HL1' 159' i4 002F10 03 2483+ DC HL1' 3' m5 002F11 02 2484+ DC HL1' 2' cc 002F12 0D 2485+ DC HL1' 13' cc failed mask 2486+V2_60 DC FD' - 99999999999999999999999999999999999	43
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	=1)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$. •
002F0C 003C 2480+ DC H'60' test number 002F0E 00 2481+ DC X'00' 002F0F 9F 2482+ DC HL1'159' i 4 002F10 03 2483+ DC HL1'3' m5 002F11 02 2484+ DC HL1'12' cc 002F12 0D 2485+ DC HL1'13' cc failed mask 2486+V2_60 DC FD'-999999999999999999999999999999999999	routine
002F0E 00 2481+ DC X' 00' 002F0F 9F 2482+ DC HL1' 159' i 4 002F10 03 2483+ DC HL1' 3' m5 002F11 02 2484+ DC HL1' 2' cc 002F12 0D 2485+ DC HL1' 13' cc failed mask 2486+V2_60 DC FD' - 99999999999999999999999999999999999	
002F0F 9F 2482+ DC HL1'159' i 4 002F10 03 2483+ DC HL1'3' m5 002F11 02 2484+ DC HL1'2' cc 002F12 0D 2485+ DC HL1'13' cc failed mask 2486+V2_60 DC FD'-999999999999999999999999999999999999	
002F10 03 2483+ DC HL1'3' m5 002F11 02 2484+ DC HL1'2' cc 002F12 0D 2485+ DC HL1'13' cc failed mask 2486+V2_60 DC FD'-999999999999999999999999999999999999	
2002F11 02 2484+ DC HL1'2' cc 2002F12 0D 2485+ DC HL1'13' cc failed mask 2486+V2_60 DC FD'-999999999999999999999999999999999999	
0002F12	
0002F12	
2486+V2_60 DC FD'-999999999999999999999999999999999999	
002F18 FFDC790D 903F0001 + binary value for v2 packed of the control of the contr	
002F20 FFFFFFF FFFFFFFF 2487+V3_60 DC FD'-1' bi narý value for v3 packed o	eci mal
	eci mal
HILZEZA ENLANZAN ANAHANAN TARIKATAN MARKATAN MARKATAN MARKATAN NAME	CCIMAI
002F30 00000010 2489+ DC A(16) result length	
002F34	
2490+READU DC A(REDU) TESTITE AUDI ESS 2491+* INSTRUCTION UNDER TEST ROUTI	NE
002F38 2492+X60 DS 0F	ME
0002F38 E320 5010 0004 00002F18 2493+ LG R2, V2_60 convert v2	
002F3E E320 8F57 002E 00001157 2494+ CVDG R2, V2PACKED	
0002F44 E720 8F57 0006 00001157 2495+ VL V2, V2PACKED	
0002F4A E320 5018 0004 00002F20 2496+ LG R2, V3_60 convert v3	
002F50 E320 8F67 002E 00001167 2497+ CVDG R2, V3PACKED	
002F56 E730 8F67 0006 00001167 2498+ VL V3, V3PACKED	
002F5C E612 3039 F07A 2499+ VDP V1, V2, V3, 159, 3 test instruction	
0002F62 E710 8F08 000E 00001108 2500+ VST V1, V10UTPUT save result	
002F68 B98D 0020 2501+ EPSW R2, R0 exptract psw	
002F6C 5020 8EE8 000010E8 2502+ ST R2, CCPSW to save CC	
0002F70 07FB 2503+ BR R11 return	
002F74 2504+RE60 DC 0F	
002F74 2505+ DROP R5	
002F74 00000000 00000009 2506 DC XL16' 0000000000000999999999999999999999999	
0002F7C 9999999 999999F	
2507	
mb=10(1	2=1, P3=1)

VL

LG

V2, V2PACKED

convert v3

R2, V3 62

00003044

0000304A

E720 8F57 0006

E320 5018 0004

00001157

00003020

2560+

DC

H' 64'

test number

2614+

0000310C

R2, CCPSW

R11

to save CC

return

ST

BR

000031EC

000031F0

5020 **8EE8**

07FB

000010E8

2668+

LG

R2, V2 67

convert v2

000032B8

E320 5010 0004

00003298

HL1'7'

HL1' 1'

i 4

m5

DC

DC

2776+

2777 +

0000338F

00003390

07

DROP

DC

2831+

2832

00003474

00003474

0000000 00000000

R5

XL16' 0000000000000000000000000000000001C'

note RDC

LG

R2, V2 72

convert v2

E320 5010 0004

00003538

00003518

3096+T79

DC

A(X79)

address of test routine

00003888

000038B8

VST

V1, V10UTPUT

save result

00001108

3150+

00003962

E710 8F08 000E

3364+T87

3365 +

DC

DC

A(X87)

H' 87'

address of test routine

test number

00003C88

00003C8C

00003CB8

		-		E6 VRI-f pack	ked ari	thmetic)	07 Jun 2024 11: 16: 59 Page 69
LOC	OBJECT CODE	ADDR1	ADDR2	STMI			
00003C8E	00			3366+	DC	X' 00'	
	00			3367+	DC	HL1' 0'	i 4
00003C90	01			3368+	DC	HL1'1'	mб
00003C91 00003C92	02 0D			3369+ 3370+	DC DC	HL1' 2' HL1' 13'	cc cc failed mask
00003C92	FFFFFFF FFFFF9C			3371+V2_87	DC DC	FD' - 100'	binary value for v2 packed decimal
00003C38	FFFFFFFF FFFFFFF4			3372+V3_87	DC	FD' - 12'	binary value for v3 packed decimal
00003CA8	E5D4E2D7 40404040			3373+	DC	CL8' VMSP'	instruction name
	00000010			3374+	DC	A(16)	result length
00003CB4	00003CF4			3375+REA87 3376+*	DC	A(RE87)	result address INSTRUCTION UNDER TEST ROUTINE
00003CB8				3377+X87	DS	0F	INSTRUCTION UNDER TEST ROUTINE
00003CB8	E320 5010 0004		00003C98	3378+	ĹĠ	R2, V2_87	convert v2
00003CBE	E320 8F57 002E		00001157	3379+			
00003CC4	E720 8F57 0006		00001157	3380+	VL	V2, V2PACKED	
00003CCA	E320 5018 0004		00003CA0	3381+	LG	R2, V3 87	convert v3
00003CD0	E320 8F67 002E		00001167	3382+	CVDG	R2, V3PACKED	
00003CD6	E730 8F67 0006		00001167	3383+	VL	V3, V3PACKED	
00003CDC	E612 3010 0079		00001100	3384+		V1, V2, V3, 0, 1	test instruction
00003CE2	E710 8F08 000E B98D 0020		00001108	3385+	VST EPSW	V1, V10UTPUT	save result
00003CE8 00003CEC	5020 8EE8		000010E8	3386+ 3387+	EPSW ST	R2, R0 R2, CCPSW	exptract psw to save CC
00003CEC 00003CF0	07FB		OOOOTOEO	3388+	BR	R11	return
00003CF4	0/1B			3389+RE87	DC	0F	1 e cui ii
00003CF4				3390+	DROP	R5	
00003CF4	0000000 00000000			3391	DC		000000000000001200C'
00003CFC	00000000 0001200C						
				3392			
00000000				3393		VMSP, -100, -10, 0, 1,	shamt=0
00003D08		00000000		3394+	DS	OFD * Dr	have Compared the and that mostly
00003D08	00003D38	00003D08		3395+	USING	*. K5	base for test data and test routine
00003D08 00003D0C	UUUUSUSA				DC .		
<i>\ </i>				3396+T88	DC DC	A(X88)	address of test routine
	0058			3397+	DC	A(X88) H' 88'	
00003D0E	0058 00			3397+ 3398+	DC DC	A(X88) H' 88' X' 00'	address of test routine test number
00003D0E 00003D0F	0058 00 00			3397+ 3398+ 3399+	DC DC DC	A(X88) H' 88' X' 00' HL1' 0'	address of test routine test number i4
00003D0E 00003D0F 00003D10	0058 00			3397+ 3398+ 3399+ 3400+	DC DC DC DC	A(X88) H' 88' X' 00' HL1' 0' HL1' 1'	address of test routine test number i4 m5
00003D0E 00003D0F 00003D10 00003D11	0058 00 00 01			3397+ 3398+ 3399+ 3400+ 3401+ 3402+	DC DC DC	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 2' HL1' 13'	address of test routine test number i4
00003D0E 00003D0F 00003D10 00003D11 00003D12 00003D18	0058 00 00 01 02 0D FFFFFFF FFFFF9C			3397+ 3398+ 3399+ 3400+ 3401+ 3402+ 3403+V2_88	DC DC DC DC DC DC DC	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 2' HL1' 13' FD' - 100'	address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal
00003D0E 00003D0F 00003D10 00003D11 00003D12 00003D18 00003D20	0058 00 00 01 02 0D FFFFFFF FFFFFF6			3397+ 3398+ 3399+ 3400+ 3401+ 3402+ 3403+V2_88 3404+V3_88	DC DC DC DC DC DC DC DC	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 12' HL1' 13' FD' - 100' FD' - 10'	address of test routine test number i4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal
00003D0E 00003D0F 00003D10 00003D11 00003D12 00003D18 00003D20 00003D28	0058 00 00 01 02 0D FFFFFFFF FFFFFF6 E5D4E2D7 40404040			3397+ 3398+ 3399+ 3400+ 3401+ 3402+ 3403+V2_88 3404+V3_88 3405+	DC DC DC DC DC DC DC DC DC	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 12' HL1' 13' FD' - 100' FD' - 10' CL8' VMSP'	i4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name
00003D0E 00003D1F 00003D10 00003D11 00003D12 00003D18 00003D20 00003D28 00003D30	0058 00 00 01 02 0D FFFFFFFF FFFFFF6 FFFFFFF FFFFFF6 E5D4E2D7 40404040 00000010			3397+ 3398+ 3399+ 3400+ 3401+ 3402+ 3403+V2_88 3404+V3_88 3405+ 3406+	DC	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 2' HL1' 13' FD' - 100' FD' - 10' CL8' VMSP' A(16)	address of test routine test number i 4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length
00003D0E 00003D0F 00003D10 00003D11 00003D12 00003D20 00003D28	0058 00 00 01 02 0D FFFFFFFF FFFFFF6 E5D4E2D7 40404040			3397+ 3398+ 3399+ 3400+ 3401+ 3402+ 3403+V2_88 3404+V3_88 3405+ 3406+ 3407+REA88	DC DC DC DC DC DC DC DC DC	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 12' HL1' 13' FD' - 100' FD' - 10' CL8' VMSP'	address of test routine test number i 4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length result address
00003D0E 00003D0F 00003D10 00003D11 00003D12 00003D18 00003D20 00003D28 00003D30 00003D34	0058 00 00 01 02 0D FFFFFFFF FFFFFF6 FFFFFFF FFFFFF6 E5D4E2D7 40404040 00000010			3397+ 3398+ 3399+ 3400+ 3401+ 3402+ 3403+V2_88 3404+V3_88 3405+ 3406+ 3407+REA88 3408+*	DC	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 12' HL1' 13' FD' - 100' FD' - 10' CL8' VMSP' A(16) A(RE88)	address of test routine test number i 4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length
00003D0E 00003D0F 00003D10 00003D11 00003D12 00003D18 00003D20 00003D28 00003D30 00003D34	0058 00 01 02 0D FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF		00003018	3397+ 3398+ 3399+ 3400+ 3401+ 3402+ 3403+V2_88 3404+V3_88 3405+ 3406+ 3407+REA88 3408+* 3409+X88	DC D	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 12' HL1' 13' FD' - 100' FD' - 10' CL8' VMSP' A(16) A(RE88) OF	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
00003D0E 00003D0F 00003D10 00003D11 00003D12 00003D18 00003D20 00003D28 00003D30 00003D34	0058 00 01 02 0D FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF		00003D18 00001157	3397+ 3398+ 3399+ 3400+ 3401+ 3402+ 3403+V2_88 3404+V3_88 3405+ 3406+ 3407+REA88 3408+* 3409+X88 3410+	DC D	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 2' HL1' 13' FD' - 100' FD' - 10' CL8' VMSP' A(16) A(RE88) OF R2, V2_88	address of test routine test number i 4 m5 cc cc failed mask binary value for v2 packed decimal binary value for v3 packed decimal instruction name result length result address
00003D0E 00003D0F 00003D10 00003D11 00003D12 00003D20 00003D28 00003D30 00003D34 00003D38 00003D38 00003D38	0058 00 01 02 0D FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF		00003D18 00001157 00001157	3397+ 3398+ 3399+ 3400+ 3401+ 3402+ 3403+V2_88 3404+V3_88 3405+ 3406+ 3407+REA88 3408+* 3409+X88 3410+ 3411+	DC D	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 12' HL1' 13' FD' - 100' FD' - 10' CL8' VMSP' A(16) A(RE88) OF	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
00003D0E 00003D0F 00003D10 00003D11 00003D12 00003D20 00003D28 00003D30 00003D34 00003D38 00003D38 00003D38 00003D38	0058 00 01 02 0D FFFFFFFF FFFFFFFFFFFFFFFFFFFFFFFFFFFF		00001157	3397+ 3398+ 3399+ 3400+ 3401+ 3402+ 3403+V2_88 3404+V3_88 3405+ 3406+ 3407+REA88 3408+* 3409+X88 3410+ 3411+ 3412+	DC DC DC DC DC DC DC DC DC CC DC DC CC DC D	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 13' FD' - 100' FD' - 10' CL8' VMSP' A(16) A(RE88) OF R2, V2_88 R2, V2PACKED V2, V2PACKED R2, V3_88	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
00003D0E 00003D0F 00003D10 00003D11 00003D12 00003D28 00003D28 00003D30 00003D34 00003D38 00003D38 00003D3E 00003D44 00003D44 00003D4A	0058 00 01 02 0D FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF		00001157 00001157 00003D20 00001167	3397+ 3398+ 3399+ 3400+ 3401+ 3402+ 3403+V2_88 3404+V3_88 3405+ 3406+ 3407+REA88 3408+* 3409+X88 3410+ 3411+ 3412+ 3413+ 3414+	DC DC DC DC DC DC DC DC DC CVDG VL LG CVDG	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 13' FD' - 100' FD' - 10' CL8' VMSP' A(16) A(RE88) OF R2, V2_88 R2, V2PACKED V2, V2PACKED R2, V3_88 R2, V3PACKED	address of test routine test number i 4 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
00003D0E 00003D0F 00003D10 00003D11 00003D12 00003D20 00003D28 00003D30 00003D34 00003D38 00003D38 00003D38 00003D3E 00003D44 00003D4A 00003D50 00003D50	0058 00 01 02 0D FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF		00001157 00001157 00003D20	3397+ 3398+ 3399+ 3400+ 3401+ 3402+ 3403+V2_88 3404+V3_88 3405+ 3406+ 3407+REA88 3408+* 3409+X88 3410+ 3411+ 3412+ 3413+ 3414+ 3415+	DC CVDG VL LG CVDG VL	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 1' HL1' 13' FD' - 100' FD' - 10' CL8' VMSP' A(16) A(RE88) OF R2, V2_88 R2, V2PACKED V2, V2PACKED R2, V3_88 R2, V3PACKED V3, V3PACKED V3, V3PACKED	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
00003D0E 00003D0F 00003D10 00003D11 00003D12 00003D20 00003D20 00003D30 00003D34 00003D38 00003D38 00003D38 00003D38 00003D36 00003D44 00003D44 00003D50 00003D50	0058 00 01 02 0D FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF		00001157 00001157 00003D20 00001167 00001167	3397+ 3398+ 3399+ 3400+ 3401+ 3402+ 3403+V2_88 3404+V3_88 3405+ 3406+ 3407+REA88 3408+* 3409+X88 3410+ 3411+ 3412+ 3413+ 3414+ 3415+ 3416+	DC CC DC DC CC DC CC DC CC C	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 1' HL1' 13' FD' - 100' FD' - 10' CL8' VMSP' A(16) A(RE88) OF R2, V2_88 R2, V2PACKED V2, V2PACKED V2, V2PACKED V2, V3_88 R2, V3PACKED V3, V3PACKED V1, V2, V3, 0, 1	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
00003D0E 00003D0F 00003D10 00003D11 00003D12 00003D20 00003D20 00003D30 00003D34 00003D38 00003D38 00003D38 00003D3E 00003D4A 00003D4A 00003D50 00003D50 00003D50	0058 00 01 02 0D FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF		00001157 00001157 00003D20 00001167	3397+ 3398+ 3399+ 3400+ 3401+ 3402+ 3403+V2_88 3404+V3_88 3405+ 3406+ 3407+REA88 3408+* 3409+X88 3410+ 3411+ 3412+ 3413+ 3414+ 3415+ 3416+ 3417+	DC CVDG VL LG CVDG VL VMSP VST	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 2' HL1' 13' FD' - 100' FD' - 10' CL8' VMSP' A(16) A(RE88) OF R2, V2_88 R2, V2PACKED V2, V2PACKED V2, V2PACKED V2, V3_88 R2, V3PACKED V3, V3PACKED V1, V2, V3, 0, 1 V1, V10UTPUT	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 save result
00003D0E 00003D0F 00003D10 00003D11 00003D12 00003D20 00003D28 00003D30 00003D34 00003D38 00003D38 00003D38 00003D3E 00003D44 00003D44 00003D44 00003D50 00003D50 00003D50	0058 00 01 02 0D FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF		00001157 00001157 00003D20 00001167 00001167	3397+ 3398+ 3399+ 3400+ 3401+ 3402+ 3403+V2_88 3405+ 3406+ 3407+REA88 3409+X88 3410+ 3411+ 3412+ 3413+ 3414+ 3415+ 3416+ 3417+ 3418+	DC VL LG CVDG VL VMSP VST EPSW	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 13' FD' - 100' FD' - 10' CL8' VMSP' A(16) A(RE88) OF R2, V2_88 R2, V2PACKED V2, V2PACKED V2, V2PACKED V2, V3_88 R2, V3PACKED V3, V3PACKED V1, V2, V3, 0, 1 V1, V10UTPUT R2, R0	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 test instruction save result exptract psw
00003D0E 00003D0F 00003D10 00003D11 00003D12 00003D18 00003D20 00003D28 00003D30 00003D34 00003D38 00003D38 00003D38 00003D38 00003D36 00003D44 00003D4A 00003D50 00003D50 00003D50	0058 00 01 02 0D FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF		00001157 00001157 00003D20 00001167 00001167	3397+ 3398+ 3399+ 3400+ 3401+ 3402+ 3403+V2_88 3404+V3_88 3405+ 3406+ 3407+REA88 3408+* 3409+X88 3410+ 3411+ 3412+ 3413+ 3414+ 3415+ 3416+ 3417+	DC CVDG VL LG CVDG VL VMSP VST	A(X88) H' 88' X' 00' HL1' 0' HL1' 1' HL1' 2' HL1' 13' FD' - 100' FD' - 10' CL8' VMSP' A(16) A(RE88) OF R2, V2_88 R2, V2PACKED V2, V2PACKED V2, V2PACKED V2, V3_88 R2, V3PACKED V3, V3PACKED V1, V2, V3, 0, 1 V1, V10UTPUT	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 save result

VL

VMSP

V3, V3PACKED

V1, V2, V3, 135, 1

test instruction

00003FD6

00003FDC

E730 8F67 0006

E612 3018 7079

00001167

3577+

DC

HL1'2'

 \mathbf{cc}

3630 +

00004091

R2, CCPSW

to save CC

ST

000010E8

3682 +

0000416C

5020 SEE8

DC

XL16' 00000000000000000000000000099F'

3787

0000000 00000000

000042F4

ASWA ver.	0. 7. 0 zvector-e6-0	J5- packarı t	n (Zvector	ею vк1-т раск	ea ari	tnmetic)	07 Jun 2024 11: 16: 59 Page	79
LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
00004488				3896 3897+	VRI_F DS	VSDP, +100, -12, 132, OFD	1, 1 shamt=4	
00004488		00004488		3898+	USING		base for test data and test routine	
00004488	000044B8			3899+T103 3900+	DC DC	A(X103)	address of test routine	
0000448C 0000448E	0067 00			3901+	DC	H' 103' X' 00'	test number	
0000448F	84			3902+	DC	HL1' 132'	i 4	
00004490	01			3903+	DC	肚1' 1'	mб	
00004491	01 OB			3904+	DC	HL1' 1'	CC	
00004492 00004498	OB 00000000 00000064			3905+ 3906+V2_103	DC DC	HL1' 11' FD' +100'	cc failed mask binary value for v2 packed decimal	
00004430 000044A0	FFFFFFF FFFFFF4			3907+V3_103	DC	FD' - 12'	binary value for v3 packed decimal	
000044A8	E5E2C4D7 40404040			3908+	DC	CL8' VSDP'	instruction name	
000044B0	00000010			3909+	DC	A(16)	result length	
000044B4	000044F4			3910+REA103 3911+*	DC DC	A(RE103)	result address INSTRUCTION UNDER TEST ROUTINE	
000044B8 000044B8	E320 5010 0004		00004498	3912+X103 3913+	DS LG	0F R2, V2_103	convert v2	
000044BE	E320 8F57 002E		00001157	3914+	CVDG	R2, V2PACKED	Converce va	
000044C4	E720 8F57 0006		00001157	3915+	VL	V2, V2PACKED		
000044CA	E320 5018 0004		000044A0	3916+	LG	R2, V3_103	convert v3	
000044D0 000044D6	E320 8F67 002E E730 8F67 0006		00001167 00001167	3917+ 3918+	CVDG VL	R2, V3PACKED V3, V3PACKED		
000044DC	E612 3018 407E		00001107	3919+		V1, V2, V3, 132, 1	test instruction	
000044E2	E710 8F08 000E		00001108	3920+	VST	V1, V10UTPUT	save result	
000044E8	B98D 0020		00004050	3921+		R2, R0	exptract psw	
000044EC 000044F0	5020 8EE8 07FB		000010E8	3922+ 3923+	ST BR	R2, CCPSW R11	to save CC return	
000044F0 000044F4	OTTB			3924+RE103	DC	0F	recurn	
000044F4	0000000 0000000			3925+	DROP	R5	I A D D D D D D D D D D D D D D D D D D	
000044F4 000044FC	00000000 00000000 00000000 0083333D			3926	DC	XL16, 00000000000000	000000000000083333D'	
				3927 3928	VRI F	VSDP, +100, -12, 128,	1, 1 shamt=0	
00004508				3929+	DS	OFD		
00004508	00004500	00004508		3930+	USING		base for test data and test routine	
00004508 0000450C	00004538 0068			3931+T104 3932+	DC DC	A(X104) H' 104'	address of test routine test number	
0000450E	00			3933+	DC	X' 00'	test number	
0000450F	80			3934+	DC	HL1' 128'	i 4	
00004510	01			3935+	DC	IL1'1'	m5	
00004511 00004512	01 0B			3936+ 3937+	DC DC	HL1' 1' HL1' 11'	cc cc failed mask	
00004512	00000000 00000064			3938+V2_104	DC DC	FD' +100'	binary value for v2 packed decimal	
00004520	FFFFFFF FFFFFF4			3939+V3_104	DC	FD' - 12'	binary value for v3 packed decimal	
00004528	E5E2C4D7 40404040			3940+	DC	CL8' VSDP'	instruction name	
00004530 00004534	00000010 00004574			3941+ 3942+REA104	DC DC	A(16) A(RE104)	result length result address	
00004334	00004374			3942+ REATU 4 3943+*	DC		INSTRUCTION UNDER TEST ROUTINE	
00004538	T000 F040 000		00001715	3944+X104	DS	0F		
00004538	E320 5010 0004		00004518	3945+	LG	R2, V2_104	convert v2	
0000453E 00004544	E320 8F57 002E E720 8F57 0006		00001157 00001157	3946+ 3947+	CVDG VL	R2, V2PACKED V2, V2PACKED		
0000454A	E320 5018 0004		00001137	3948+	LG	R2, V3_104	convert v3	
00004550	E320 8F67 002E		00001167	3949+	CVDG	R2, V3PACKED		
00004556	E730 8F67 0006		00001167	3950+	VL	V3, V3PACKED		

OFD

LOC OBJECT CODE ADDR1 ADDR2 **STM** 4059+ 00004708 00004708 USING *, R5 base for test data and test routine A(X108) 00004708 00004738 4060+T108 DC address of test routine 0000470C 006C DC H' 108' 4061+ test number 0000470E 4062+ DC X' 00' 00 HL1' 132' 0000470F 84 4063+ DC i 4 00004710 01 4064+ DC HL1'1' mб HL1'2' 00004711 02 4065+ DC \mathbf{cc} 00004712 OD 4066+ DC HL1' 13' cc failed mask 4067+V2_108 DC 00004718 01634578 5D89FFFF binary value for v2 packed decimal 4068+V3_108 DC FD' +1' 00004720 0000000 00000001 binary value for v3 packed decimal 00004728 E5E2C4D7 40404040 DC CL8' VSDP' 4069 +instruction name 00004730 00000010 4070+ DC A(16) result length 4071+REA108 00004734 00004774 DC A(RE108) result address 4072+* INSTRUCTION UNDER TEST ROUTINE 4073+X108 00004738 DS $\mathbf{0F}$ LG R2, V2 108 00004738 E320 5010 0004 00004718 4074+ convert v2 0000473E E320 8F57 002E 4075+ **CVDG** R2, V2PACKED 00001157 00004744 E720 8F57 0006 4076+ V2, V2PACKED 00001157 VL E320 5018 0004 LG R2, V3_108 0000474A 00004720 4077+ convert v3 00004750 E320 8F67 002E 00001167 4078+ CVDG R2, V3PACKED 00004756 E730 8F67 0006 00001167 4079+ VL V3, V3PACKED 0000475C E612 3018 407E 4080+ **VSDP** V1, V2, V3, 132, 1 test instruction E710 8F08 000E 00004762 00001108 4081+ **VST** V1, V10UTPUT save result **EPSW** R2, R0 B98D 0020 4082+ exptract psw 00004768 5020 **SEE8** 000010E8 4083+ ST R2, CCPSW 0000476C to save CC 00004770 07FB 4084+ BR **R11** return 00004774 4085+RE108 DC 0F **R5** 00004774 DROP 4086+ 00004774 0000000 00999999 4087 XL16' 0000000009999999999999999000C' DC 0000477C 9999999 999000C 4088 4089 VRI_F VSDP, -999999999999999, +1000, 128, 1, 1 shamt=0 4090+ 00004788 **OFD** DS USING *, R5 00004788 00004788 4091+ base for test data and test routine 000047B8 4092+T109 A(X109)00004788 DC address of test routine 0000478C 006D 4093+ DC H' 109' test number 0000478E 00 4094+ DC X' 00' DC HL1' 128' i 4 0000478F 80 4095+ 00004790 4096+ DC HL1' 1' 01 mб HL1' 1' 00004791 01 4097+ DC \mathbf{cc} HL1' 11' 00004792 OB 4098 +DC cc failed mask 4099+V2_109 DC 00004798 FE9CBA87 A2760001 binary value for v2 packed decimal 4100+V3 109 DC FD' +1000' binary value for v3 packed decimal 000047A0 00000000 000003E8 CL8' VSDP' 000047A8 E5E2C4D7 40404040 4101+ DC instruction name 000047B0 00000010 4102 +DC A(16) result length 4103+REA109 DC A(RE109) 000047B4 000047F4 result address 4104+* INSTRUCTION UNDER TEST ROUTINE DS 000047B8 4105+X109 0F R2, V2_109 000047B8 00004798 4106+ LG E320 5010 0004 convert v2 **CVDG** R2, V2PACKED 000047BE E320 8F57 002E 00001157 4107+ E720 8F57 0006 000047C4 00001157 4108+ VL V2, V2PACKED 000047CA E320 5018 0004 000047A0 4109+ LG R2, V3 109 convert v3 R2, V3PACKED 000047D0 E320 8F67 002E 00001167 4110+ CVDG E730 8F67 0006 000047D6 00001167 4111+ V3, V3PACKED

test number

	0. 7. 0 zvector-e6				ackeu ai	i cimieci c <i>j</i>	•	7 Jun 2024 11: 16: 59	ı age	93
LOC	OBJECT CODE	ADDR1	ADDR2	STMI						
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		00000017	00000001	4634 V23 4635 V24	EQU EQU	23 24				
		00000019	00000001	4636 V25	EQU	25				
		000001A	00000001	4637 V26	EQU	26				
		0000001B	00000001	4638 V27 4639 V28	EQU EQU	27 28				
		0000001D	00000001	4640 V29	EQU	22 23 24 25 26 27 28 29 30				
		0000001E	00000001	4641 V30 4642 V31	EQU EQU	30 31				
		0000011	0000001	4643		31				
				4644	END					

ASMA Ver. 0.7.0	zvector	- e6- 05- pack	arith (Zve	ctor E6	VRI-f pack	ed arit	chmeti c	:)				07 Jun	2024	11: 16:	59 F	age	96
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R3	U	00000003	1	4593	4237 4238 4306 4310 4377 4378 4445	4311	4243 4335 4403	4269 4336 4405	4270 4338 4406	4272 4339 4410	4273 4343 4411	4277 4344 4436	4278 4369 4437	4302 4370 4439	4303 4372 4440	4373	
R4 R5	U U U	00000005 00000006 0000007	1 1 1	4594 4595 4596 4597	126 127 692 719 914 919 1115 1142 1337 1342 1538 1565 1758 1763 1959 1986 2182 2187 2380 2407 2603 2612 2804 2831 3024 3031 3024 3031 3235 3262 3454 3460 3658 3685 3893 3898 4091 4118 4314 4320	724 946 1147 1369 1570 1995 2214 2414 2639 2837 3058 3267 3487 3691 3925 4123	260 751 955 1174 1374 1597 1795 2022 2220 2441 2644 2864 3063 3294 3493 3718 3930 4150 4354	268 757 982 1180 1401 1602 1822 2027 2247 2446 2671 2869 3090 3299 3520 3725 3957 4155 4381	564 784 987 1207 1406 1629 1829 2054 2252 2473 2676 2896 3095 3326 3525 3752 3962 4182 4387	591 789 1014 1212 1433 1634 1856 2059 2279 2478 2703 2901 3122 3331 3552 3759 3989 4187 4414	596 816 1019 1239 1442 1661 1862 2086 2284 2505 2708 2928 3128 3358 3557 3786 3994 4214 4421	623 821 1046 1244 1469 1667 1889 2091 2311 2511 2735 2933 3155 3363 3584 3802 4021 4219 4448	628 848 1051 1271 1474 1694 1894 2118 2316 2538 2740 2960 3160 3390 3589 3829 4026 4246	655 855 1078 1276 1501 1699 1921 2123 2343 2543 2767 2965 3187 3395 3616 3834 4053 4254	660 882 1083 1303 1506 1726 2150 2348 2570 2772 2992 3192 3624 3861 4059 4281	887 1110 1310 1533 1731 1953 2155 2375 2576 2799 2997 3427 3651 3866 4086	

SYMBOL	ТҮРЕ	- e6- 05- pack VALUE	LENGTH	DEFN	REFER	-									11: 16: 5		. ge 1	
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4 5	A A	00003B88	4	3300	4543 4544													
6	A	00003B88	4	3332	4545													
7	A	00003C88	4	3364	4546													
8	Ä	00003D08	$ar{4}$	3396	4547													
9	Ā	00003D88	4	3428	4548													
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5	A	00004108	4	3625	4554													
6 7	A.	00004108 00004188	4	3659 3692	4555 4556													
, 8	A.	00004188	4	3726	4557													
9	Δ	00004208	4	3760	4558													
STCC	Ť	00001200	4	153	143													
STING	F	00001004	$\overline{4}$	362	135													
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UM	H	0000004	2	436	134	173	207											
UB	A	0000000	4	435	138													
ABLE	F	00004D0C	4	4459														
	U	0000000	1	4611	107	50 2	500	017	010	0.40	050	001	000	710	m 4 4	~ 4 ~	~ 40	
	U	0000001	1	4612	137	585 770	586	617	618	649	650	681	682	713	714	745	746	
					778 977	779	810	811	842	843	876	877	908	909	940	941	976	
					977 1201	1008 1202	1009 1233	1040 1234	1041 1265	1072 1266	1073 1297	1104 1298	1105 1331	1136 1332		1168 1364	1169 1395	
					1396	1427	1233 1428	1463	1464	1495	1496	1527	1528	1552		1504 1591	1593	
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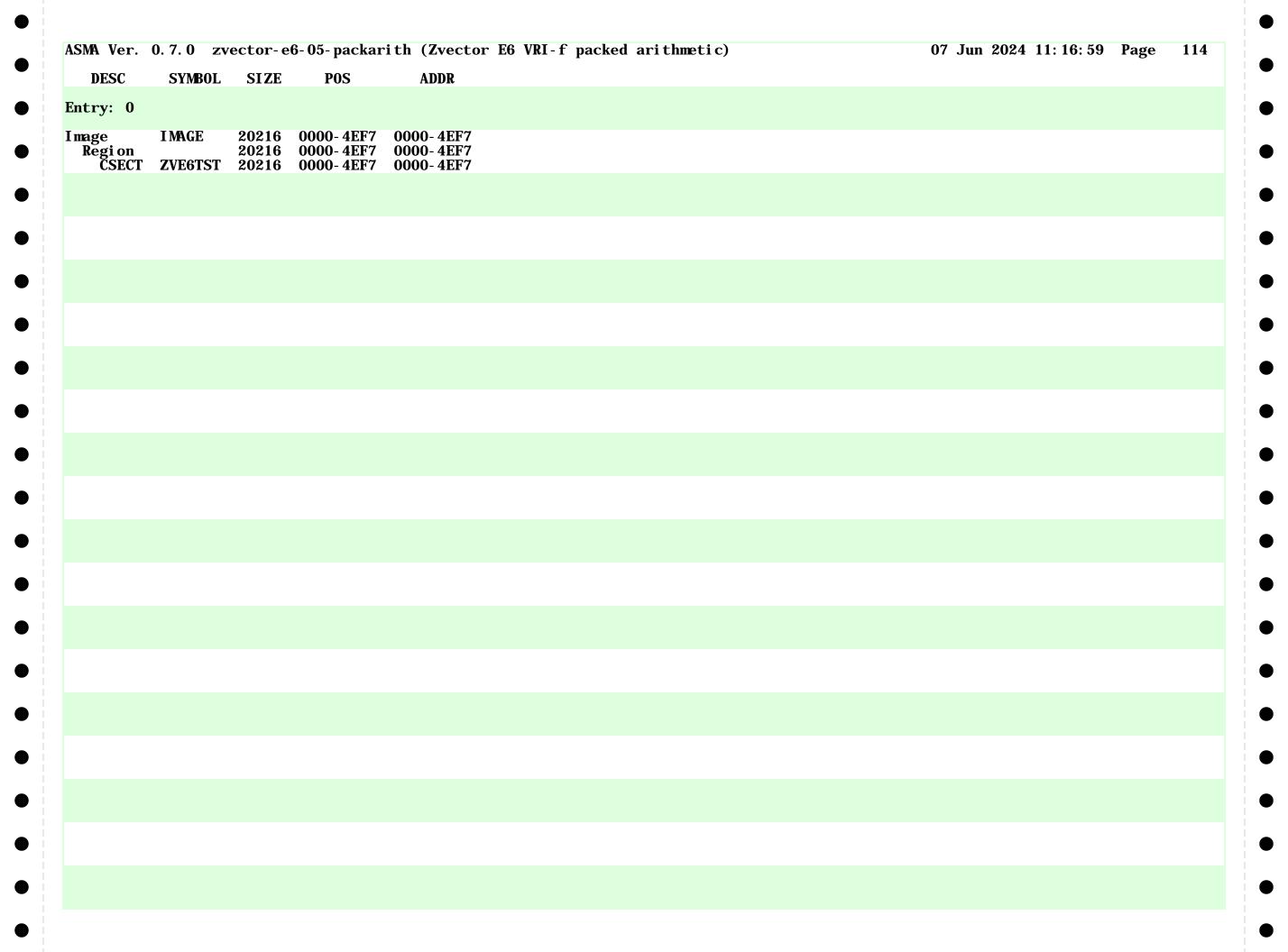
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13	U	0000000D 000000E	1	4624													
14 15	U U	0000000E	1	4625 4626													
16	Ü	0000001	1	4627													
17 17	Ŭ	00000011	1	4628													
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1 I NPUT	C	00001138	16	423							~				~~~		
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26	Ŭ	0000001A	1	4637													
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29	U	0000001D	1	4640				_									
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_21	F	00001B98	8	1220	1227												
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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES											
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91	F	00003E98	8	3501	3508												
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_93	F	00003F98	8	3565	3572												
_94	F	00004018	8	3597	3604												
_95	<u>F</u>	00004098	8	3632	3639												
96	<u>F</u>	00004118	8	3666	3673												
97	F	00004198	8	3699	3706												
_98	F	00004218	8	3733	3740												
_99	F U	00004298 00000003	8	3767 4614	3774 584	585	616	617	648	649	680	681	712	713	744	745	777
	U	00000003	1	4014	778	809	616 810	841	842	875	876	907	908	939	940	975	976
					1007	1008	1039	1040	1071	1072	1103	1104	1135	1136	1167	1168	1200
					1201	1232	1233	1264	1265	1296	1297	1330	1331	1362	1363	1394	1395
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A GWED	U	0000001F	1	4642		P					~~-			~- <i>-</i> -		-	
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					777	808	809	840	841	874	875	906	907	938	939	974	975
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					1848	1849	1881	1882	1913	1914	1945	1946	1978	1979	2014	2015	2046
					2047	2078	2079	2110	2111	2142	2143	2174	2175	2206	2207	2239	2240
					2271	2272	2303	2304	2335	2336	2367	2368	2399	2400	2433	2434	2465
					2466	2497	2498	2530	2531	2562	2563	2595	2596	2631	2632	2663	2664
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ACRO	DEFN	REFEREN		•				•		nmetic)							Page	11:
TABLE I_F	521 461	4458 562 1113 1665 2218 2770 3329	594 1145 1697 2250 2802 3361	626 1178 1729 2282 2835 3393	658 1210 1761 2314 2867 3425	690 1242 1793 2346 2899 3458	722 1274 1827 2378 2931 3491	755 1308 1860 2412 2963 3523	787 1340 1892 2444 2995 3555	819 1372 1924 2476 3029 3587	853 1404 1957 2509 3061 3622	885 1440 1993 2541 3093 3656	917 1472 2025 2574 3126 3689	953 1504 2057 2610 3158 3723	985 1536 2089 2642 3190 3757	1017 1568 2121 2674 3233 3800	1049 1600 2153 2706 3265 3832	108 1633 2183 2733 3293 3864
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MA Ver. 0.7.0	zvector-e6-05-packarith (Zvector E6 VRI-f packed arithmetic)	07 Jun 2024 11: 16: 59 Page 115
STMI	FILE NAME	
/home/tn529	O/sharedvfp/tests/zvector-e6-05-packarith.asm	
NO ERRORS FOUN	ID **	