

LOC	OBJECT CODE	ADDR1	ADDR2	STMT
				2 *****
				3 *
				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
				13 *
				14 *            James Wekel June 2024
				15 *****
				16
				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
				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.
				47 *    *            # -----
				48 *    *
				49 *    main size        2
				50 *    numcpu           1
				51 *    sysclear
				52 *    archlvl         z/Arch
				53 *    *
				54 *    loadcore        "\$(testpath)/zvector-e6-05-packarith.core" 0x0
				55 *    *
				56 *    diag8cmd        enable    # (needed for messages to Hercules console)
				57 *    runtest          2



[illegible]



LOC	OBJECT CODE			ADDR1	ADDR2	STMT	
						151 *****	
						152 * cc was not as expected	
						153 *****	
0000026E	E310	0001	0082	0000026E	00000001	154 CCMG EQU *	
00000274	E310	5008	0076		00000001	155 XG R1, R1	
0000027A	5410	82B0			00000008	156 LB R1, M5	M5 has CS bit
0000027E	4780	8052			000004B0	157 N R1, =F' 1'	get CS (CC set) bit
					00000252	158 BZ TESTREST	ignore if not set
						159 *	
						160 * extract CC extracted PSW	
						161 *	
00000282	5810	8EE4			000010E4	162 L R1, CCPSW	
00000286	8810	000C			0000000C	163 SRL R1, 12	
0000028A	5410	82B4			000004B4	164 N R1, =XL4' 3'	
0000028E	4210	8EEC			000010EC	165 STC R1, CCFFOUND	save cc
						166 *	
						167 * FILL IN MESSAGE	
						168 *	
00000292	4820	5004			00000004	169 LH R2, TNUM	get test number and convert
00000296	4E20	8ED1			000010D1	170 CVD R2, DECNUM	
0000029A	D211	8EBB	8EA5	000010BB	000010A5	171 MVC PRT3, EDIT	
000002A0	DE11	8EBB	8ED1	000010BB	000010D1	172 ED PRT3, DECNUM	
000002A6	D202	8E60	8EC8	00001060	000010C8	173 MVC CCPRTNUM(3), PRT3+13	fill in message with test #
						174	
000002AC	D207	8E7D	5020	0000107D	00000020	175 MVC CCPRTNAME, OPNAME	fill in message with instruction
						176	
000002B2	B982	0022				177 XGR R2, R2	get CC as U8
000002B6	4320	5009			00000009	178 IC R2, CC	
000002BA	4E20	8ED1			000010D1	179 CVD R2, DECNUM	and convert
000002BE	D211	8EBB	8EA5	000010BB	000010A5	180 MVC PRT3, EDIT	
000002C4	DE11	8EBB	8ED1	000010BB	000010D1	181 ED PRT3, DECNUM	
000002CA	D200	8E93	8ECA	00001093	000010CA	182 MVC CCPRTEXP(1), PRT3+15	fill in message with CC field
						183	
000002D0	B982	0022				184 XGR R2, R2	get CCFFOUND as U8
000002D4	4320	8EEC			000010EC	185 IC R2, CCFFOUND	
000002D8	4E20	8ED1			000010D1	186 CVD R2, DECNUM	and convert
000002DC	D211	8EBB	8EA5	000010BB	000010A5	187 MVC PRT3, EDIT	
000002E2	DE11	8EBB	8ED1	000010BB	000010D1	188 ED PRT3, DECNUM	
000002E8	D200	8EA3	8ECA	000010A3	000010CA	189 MVC CCPRTGOT(1), PRT3+15	fill in message with ccfound
						190	
000002EE	4100	0055			00000055	191 LA R0, CCPRTLNG	message length
000002F2	4110	8E50			00001050	192 LA R1, CCPRTLNE	messagfe address
000002F6	45F0	8184			00000384	193 BAL R15, RPTERROR	
						194	
000002FA	47F0	8166			00000366	195 B FAILCONT	

LOC	OBJECT CODE			ADDR1	ADDR2	STMT	
						197 *****	
						198 * result not as expected:	
						199 * issue message with test number, instruction under test	
						200 * and instruction m3	
						201 *****	
				000002FE	00000001	202 FAILMSG EQU *	
000002FE	4820	5004			00000004	203 LH R2, TNUM	get test number and convert
00000302	4E20	8ED1			000010D1	204 CVD R2, DECNUM	
00000306	D211	8EBB 8EA5		000010BB	000010A5	205 MWC PRT3, EDIT	
0000030C	DE11	8EBB 8ED1		000010BB	000010D1	206 ED PRT3, DECNUM	
00000312	D202	8E14 8EC8		00001014	000010C8	207 MWC PRTNUM(3), PRT3+13	fill in message with test #
						208	
00000318	D207	8E2F 5020		0000102F	00000020	209 MWC PRTNAME, OPNAME	fill in message with instruction
						210	
0000031E	B982	0022				211 XGR R2, R2	get i4 as U8
00000322	4320	5007			00000007	212 IC R2, I4	
00000326	4E20	8ED1			000010D1	213 CVD R2, DECNUM	and convert
0000032A	D211	8EBB 8EA5		000010BB	000010A5	214 MWC PRT3, EDIT	
00000330	DE11	8EBB 8ED1		000010BB	000010D1	215 ED PRT3, DECNUM	
00000336	D202	8E40 8EC8		00001040	000010C8	216 MWC PRTI4(3), PRT3+13	fill in message with i4 field
						217	
0000033C	B982	0022				218 XGR R2, R2	get m5 as U8
00000340	4320	5008			00000008	219 IC R2, M5	and convert
00000344	4E20	8ED1			000010D1	220 CVD R2, DECNUM	
00000348	D211	8EBB 8EA5		000010BB	000010A5	221 MWC PRT3, EDIT	
0000034E	DE11	8EBB 8ED1		000010BB	000010D1	222 ED PRT3, DECNUM	
00000354	D201	8E4D 8EC9		0000104D	000010C9	223 MWC PRTM5(2), PRT3+14	fill in message with m5 field
						224	
0000035A	4100	004C			0000004C	225 LA R0, PRTLNG	message length
0000035E	4110	8E04			00001004	226 LA R1, PRTLNE	messagfe address
00000362	45F0	8184			00000384	227 BAL R15, RPTERROR	
						229 *****	
						230 * continue after a failed test	
						231 *****	
				00000366	00000001	232 FAILCONT EQU *	
00000366	5800	82B0			000004B0	233 L R0, =F' 1'	set GLOBAL failed test indicator
0000036A	5000	8E00			00001000	234 ST R0, FAILED	
						235	
0000036E	41C0	C004			00000004	236 LA R12, 4(0, R12)	next test address
00000372	47F0	802A			0000022A	237 B NEXTE6	
						239 *****	
						240 * end of testing; set ending psw	
						241 *****	
				00000376	00000001	242 ENDTEST EQU *	
00000376	5810	8E00			00001000	243 L R1, FAILED	did a test fail?
0000037A	1211					244 LTR R1, R1	
0000037C	4780	8288			00000488	245 BZ EOJ	No, exit
00000380	47F0	82A0			000004A0	246 B FAILTEST	Yes, exit with BAD PSW
						247	

[illegible]









LOC	OBJECT	CODE	ADDR1	ADDR2	STMT
					345 *=====
					346 *
					347 * NOTE: start data on an address that is easy to display
					348 * within Hercules
					349 *
					350 *=====
					351
000004BC			000004BC	00001000	352
00001000	00000000				353 FAILED DC F' 0' some test failed?
					355 *****
					356 * TEST failed : result messgae
					357 *****
					358 *
					359 * failed message and associated editting
					360 *
00001004	40404040	40404040			361 PRTLIN DC C' Test # '
00001014	A7A7A7				362 PRTNUM DC C' xxx'
00001017	40868189	93858440			363 DC C' failed for instruction '
0000102F	A7A7A7A7	A7A7A7A7			364 PRTNAME DC CL8' xxxxxxxx'
00001037	40A689A3	884089F4			365 DC C' with i4='
00001040	A7A7A7				366 PRTI4 DC C' xxx'
00001043	6B				367 DC C' ,'
00001044	40A689A3	884094F5			368 DC C' with m5='
0000104D	A7A7				369 PRTM5 DC C' xx'
0000104F	4B				370 DC C' .'
			0000004C	00000001	371 PRTLNG EQU *- PRTLIN
					373 *****
					374 * TEST failed : CC message
					375 *****
					376 *
					377 * failed message and associated editting
					378 *
00001050	40404040	40404040			379 CCPRTLIN DC C' Test # '
00001060	A7A7A7				380 CCPRTNUM DC C' xxx'
00001063	40A69996	95874083			381 DC c' wrong cc for instruction '
0000107D	A7A7A7A7	A7A7A7A7			382 CCPRTNAME DC CL8' xxxxxxxx'
00001085	4085A797	8583A385			383 DC C' expected: cc='
00001093	A7				384 CCPRTEXP DC C' x'
00001094	6B				385 DC C' ,'
00001095	40998583	8589A585			386 DC C' received: cc='
000010A3	A7				387 CCPRTGOT DC C' x'
000010A4	4B				388 DC C' .'
			00000055	00000001	389 CCPRTLNG EQU *- CCPRTLIN

[illegible]



LOC	OBJECT CODE	ADDR1	ADDR2	STMT
				446 *****
				447 * <b>Macros to help build test tables</b>
				448 *-----
				449 * <b>VRI_F Macro to help build test tables</b>
				450 *****
				451 <b>MACRO</b>
				452 <b>VRI_F &amp;INST, &amp;V2, &amp;V3, &amp;I4, &amp;M5, &amp;CC</b>
				453 . * <b>&amp;INST - VRI-f instruction under test</b>
				454 . * <b>&amp;v2 - binary DW value for V2</b>
				455 . * <b>&amp;v3 - binary DW value for V3</b>
				456 . * <b>&amp;i4 - i4 field</b>
				457 . * <b>&amp;m5 - m5 field</b>
				458 . * <b>&amp;CC - expected CC</b>
				459 . *
				460 <b>LCLA &amp;XCC(4) &amp;CC has mask values for FAILED condition codes</b>
				461 &XCC(1) <b>SETA 7       CC != 0</b>
				462 &XCC(2) <b>SETA 11       CC != 1</b>
				463 &XCC(3) <b>SETA 13       CC != 2</b>
				464 &XCC(4) <b>SETA 14       CC != 3</b>
				465
				466 <b>GBLA &amp;TNUM</b>
				467 &TNUM <b>SETA &amp;TNUM+1</b>
				468
				469 <b>DS OFD</b>
				470 <b>USING *, R5       base for test data and test routine</b>
				471
				472 T&TNUM <b>DC A(X&amp;TNUM)       address of test routine</b>
				473 <b>DC H' &amp;TNUM       test number</b>
				474 <b>DC X' 00'</b>
				475 <b>DC HL1' &amp;I4'       i4</b>
				476 <b>DC HL1' &amp;M5'       m5</b>
				477 <b>DC HL1' &amp;CC'       cc</b>
				478 <b>DC HL1' &amp;XCC(&amp;CC+1)'   cc failed mask</b>
				479 V2_&TNUM <b>DC FD' &amp;V2'       binary value for v2 packed decimal</b>
				480 V3_&TNUM <b>DC FD' &amp;V3'       binary value for v3 packed decimal</b>
				481 <b>DC CL8' &amp;INST'       instruction name</b>
				482 <b>DC A(16)       result length</b>
				483 REA&TNUM <b>DC A(RE&amp;TNUM)       result address</b>
				484 . *
				485 * <b>INSTRUCTION UNDER TEST ROUTINE</b>
				486 X&TNUM <b>DS OF</b>
				487 <b>LG R2, V2_&amp;TNUM       convert v2</b>
				488 <b>CVDG R2, V2PACKED</b>
				489 <b>VL V2, V2PACKED</b>
				490
				491 <b>LG R2, V3_&amp;TNUM       convert v3</b>
				492 <b>CVDG R2, V3PACKED</b>
				493 <b>VL V3, V3PACKED</b>
				494
				495 <b>&amp;INST V1, V2, V3, &amp;I4, &amp;M5   test instruction</b>
				496
				497 <b>VST V1, V10OUTPUT       save result</b>
				498 <b>EPSW R2, R0       exptact psw</b>
				499 <b>ST R2, CCPSW       to save CC</b>
				500 <b>BR R11       return</b>
				501



507	*****			
508	*	PTTABLE Macro to generate table of pointers to individual tests		
509	*****			
510				
511		MACRO		
512		PTTABLE		
513		GBLA	&TNUM	
514		LCLA	&CUR	
515	&CUR	SETA	1	
516	. *			
517	TTABLE	DS	OF	
518	. LOOP	ANOP		
519	. *			
520		DC	A(T&CUR)	address of test
521	. *			
522	&CUR	SETA	&CUR+1	
523		AIF	(&CUR LE &TNUM) . LOOP	
524	*			
525		DC	A(0)	END OF TABLE
526		DC	A(0)	
527	. *			
528		MEND		



LOC	OBJECT CODE	ADDR1	ADDR2	STMT	
				530 *****	
				531 * E6 VRI_F tests	
				532 *****	
00001180		00000000	00004EEF	533 ZVE6TST CSECT ,	
				534 DS OF	
				536 PRINT DATA	
				537 *	
				538 * E671 VAP - VECTOR ADD DECIMAL	
				539 * E673 VSP - VECTOR SUBTRACT DECIMAL	
				540 * E678 VMP - VECTOR MULTIPLY DECIMAL	
				541 * E679 VMSP - VECTOR MULTIPLY AND SHIFT DECIMAL	
				542 * E67A VDP - VECTOR DIVIDE DECIMAL	
				543 * E67B VRP - VECTOR REMAINDER DECIMAL	
				544 * E67E VSDP - VECTOR SHIFT AND DIVIDE DECIMAL	
				545	
				546 * VRI_F instr, v2, v3, i4, m5, cc	
				547 * followed by 16 byte expected result	
				548	
				549 * -----	
				550 * VAP - VECTOR ADD DECIMAL	
				551 * -----	
				552 * VAP simple + CC checks	
				553 VRI_F VAP, +10, +12, 7, 1, 2	
00001180				554+ DS OFD	
00001180		00001180		555+ USING *, R5	base for test data and test routine
00001180	000011B0			556+T1 DC A(X1)	address of test routine
00001184	0001			557+ DC H' 1'	test number
00001186	00			558+ DC X' 00'	
00001187	07			559+ DC HL1' 7'	i4
00001188	01			560+ DC HL1' 1'	m5
00001189	02			561+ DC HL1' 2'	cc
0000118A	0D			562+ DC HL1' 13'	cc failed mask
00001190	00000000	0000000A		563+V2_1 DC FD' +10'	binary value for v2 packed decimal
00001198	00000000	0000000C		564+V3_1 DC FD' +12'	binary value for v3 packed decimal
000011A0	E5C1D740	40404040		565+ DC CL8' VAP'	instruction name
000011A8	00000010			566+ DC A(16)	result length
000011AC	000011EC			567+REA1 DC A(RE1)	result address
				568+*	INSTRUCTION UNDER TEST ROUTINE
000011B0				569+X1 DS OF	
000011B0	E320 5010 0004		00001190	570+ LG R2, V2_1	convert v2
000011B6	E320 8F4F 002E		0000114F	571+ CVDG R2, V2PACKED	
000011BC	E720 8F4F 0006		0000114F	572+ VL V2, V2PACKED	
000011C2	E320 5018 0004		00001198	573+ LG R2, V3_1	convert v3
000011C8	E320 8F5F 002E		0000115F	574+ CVDG R2, V3PACKED	
000011CE	E730 8F5F 0006		0000115F	575+ VL V3, V3PACKED	
000011D4	E612 3010 7071			576+ VAP V1, V2, V3, 7, 1	test instruction
000011DA	E710 8F00 000E		00001100	577+ VST V1, V10UTPUT	save result
000011E0	B98D 0020			578+ EPSW R2, R0	extract psw
000011E4	5020 8EE4		000010E4	579+ ST R2, CCPSW	to save CC
000011E8	07FB			580+ BR R11	return
000011EC				581+RE1 DC OF	
000011EC				582+ DROP R5	
000011EC	00000000	00000000		583 DC XL16' 000000000000000000000000000022C'	
000011F4	00000000	0000022C			

LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
				584		
				585	VRI_F VAP, - 10, +12, 7, 1, 2	
00001200				586+	DS OFD	
00001200		00001200		587+	USING *, R5	base for test data and test routine
00001200	00001230			588+T2	DC A(X2)	address of test routine
00001204	0002			589+	DC H' 2'	test number
00001206	00			590+	DC X' 00'	
00001207	07			591+	DC HL1' 7'	i4
00001208	01			592+	DC HL1' 1'	m5
00001209	02			593+	DC HL1' 2'	cc
0000120A	0D			594+	DC HL1' 13'	cc failed mask
00001210	FFFFFFFF FFFFFFFF6			595+V2_2	DC FD' - 10'	binary value for v2 packed decimal
00001218	00000000 0000000C			596+V3_2	DC FD' +12'	binary value for v3 packed decimal
00001220	E5C1D740 40404040			597+	DC CL8' VAP'	instruction name
00001228	00000010			598+	DC A(16)	result length
0000122C	0000126C			599+REA2	DC A(RE2)	result address
				600+*		INSTRUCTION UNDER TEST ROUTINE
00001230				601+X2	DS OF	
00001230	E320 9010 0004		00001210	602+	LG R2, V2_2	convert v2
00001236	E320 8F4F 002E		0000114F	603+	CVDG R2, V2PACKED	
0000123C	E720 8F4F 0006		0000114F	604+	VL V2, V2PACKED	
00001242	E320 9018 0004		00001218	605+	LG R2, V3_2	convert v3
00001248	E320 8F5F 002E		0000115F	606+	CVDG R2, V3PACKED	
0000124E	E730 8F5F 0006		0000115F	607+	VL V3, V3PACKED	
00001254	E612 3010 7071			608+	VAP V1, V2, V3, 7, 1	test instruction
0000125A	E710 8F00 000E		00001100	609+	VST V1, V10UTPUT	save result
00001260	B98D 0020			610+	EPSW R2, R0	exptract psw
00001264	5020 8EE4		000010E4	611+	ST R2, CCPSW	to save CC
00001268	07FB			612+	BR R11	return
0000126C				613+RE2	DC OF	
0000126C				614+	DROP R5	
0000126C	00000000 00000000			615	DC XL16' 000000000000000000000000000000002C'	
00001274	00000000 0000002C					
				616		
				617	VRI_F VAP, +10, - 12, 7, 1, 1	
00001280				618+	DS OFD	
00001280		00001280		619+	USING *, R5	base for test data and test routine
00001280	000012B0			620+T3	DC A(X3)	address of test routine
00001284	0003			621+	DC H' 3'	test number
00001286	00			622+	DC X' 00'	
00001287	07			623+	DC HL1' 7'	i4
00001288	01			624+	DC HL1' 1'	m5
00001289	01			625+	DC HL1' 1'	cc
0000128A	0B			626+	DC HL1' 11'	cc failed mask
00001290	00000000 0000000A			627+V2_3	DC FD' +10'	binary value for v2 packed decimal
00001298	FFFFFFFF FFFFFFFF4			628+V3_3	DC FD' - 12'	binary value for v3 packed decimal
000012A0	E5C1D740 40404040			629+	DC CL8' VAP'	instruction name
000012A8	00000010			630+	DC A(16)	result length
000012AC	000012EC			631+REA3	DC A(RE3)	result address
				632+*		INSTRUCTION UNDER TEST ROUTINE
000012B0				633+X3	DS OF	
000012B0	E320 5010 0004		00001290	634+	LG R2, V2_3	convert v2
000012B6	E320 8F4F 002E		0000114F	635+	CVDG R2, V2PACKED	
000012BC	E720 8F4F 0006		0000114F	636+	VL V2, V2PACKED	
000012C2	E320 5018 0004		00001298	637+	LG R2, V3_3	convert v3
000012C8	E320 8F5F 002E		0000115F	638+	CVDG R2, V3PACKED	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
000012CE	E730 8F5F 0006		0000115F	639+	VL	V3, V3PACKED	
000012D4	E612 3010 7071			640+	VAP	V1, V2, V3, 7, 1	test instruction
000012DA	E710 8F00 000E		00001100	641+	VST	V1, V10OUTPUT	save result
000012E0	B98D 0020			642+	EPSW	R2, R0	exptrect psw
000012E4	5020 8EE4		000010E4	643+	ST	R2, CCPSW	to save CC
000012E8	07FB			644+	BR	R11	return
000012EC				645+RE3	DC	0F	
000012EC				646+	DROP	R5	
000012EC	00000000 00000000			647	DC	XL16' 000000000000000000000000000000002D'	
000012F4	00000000 0000002D						
				648			
				649	VRI_F	VAP, - 10, - 12, 7, 1, 1	
00001300				650+	DS	0FD	
00001300		00001300		651+	USING	*, R5	base for test data and test routine
00001300	00001330			652+T4	DC	A(X4)	address of test routine
00001304	0004			653+	DC	H' 4'	test number
00001306	00			654+	DC	X' 00'	
00001307	07			655+	DC	HL1' 7'	i4
00001308	01			656+	DC	HL1' 1'	m5
00001309	01			657+	DC	HL1' 1'	cc
0000130A	0B			658+	DC	HL1' 11'	cc failed mask
00001310	FFFFFFFF FFFFFFFF6			659+V2_4	DC	FD' - 10'	binary value for v2 packed decimal
00001318	FFFFFFFF FFFFFFFF4			660+V3_4	DC	FD' - 12'	binary value for v3 packed decimal
00001320	E5C1D740 40404040			661+	DC	CL8' VAP'	instruction name
00001328	00000010			662+	DC	A(16)	result length
0000132C	0000136C			663+REA4	DC	A(RE4)	result address
				664+*			INSTRUCTION UNDER TEST ROUTINE
00001330				665+X4	DS	0F	
00001330	E320 5010 0004		00001310	666+	LG	R2, V2_4	convert v2
00001336	E320 8F4F 002E		0000114F	667+	CVDG	R2, V2PACKED	
0000133C	E720 8F4F 0006		0000114F	668+	VL	V2, V2PACKED	
00001342	E320 5018 0004		00001318	669+	LG	R2, V3_4	convert v3
00001348	E320 8F5F 002E		0000115F	670+	CVDG	R2, V3PACKED	
0000134E	E730 8F5F 0006		0000115F	671+	VL	V3, V3PACKED	
00001354	E612 3010 7071			672+	VAP	V1, V2, V3, 7, 1	test instruction
0000135A	E710 8F00 000E		00001100	673+	VST	V1, V10OUTPUT	save result
00001360	B98D 0020			674+	EPSW	R2, R0	exptrect psw
00001364	5020 8EE4		000010E4	675+	ST	R2, CCPSW	to save CC
00001368	07FB			676+	BR	R11	return
0000136C				677+RE4	DC	0F	
0000136C				678+	DROP	R5	
0000136C	00000000 00000000			679	DC	XL16' 000000000000000000000000000000002D'	
00001374	00000000 0000022D						
				680			
				681	VRI_F	VAP, - 10, +10, 7, 1, 0	
00001380				682+	DS	0FD	
00001380		00001380		683+	USING	*, R5	base for test data and test routine
00001380	000013B0			684+T5	DC	A(X5)	address of test routine
00001384	0005			685+	DC	H' 5'	test number
00001386	00			686+	DC	X' 00'	
00001387	07			687+	DC	HL1' 7'	i4
00001388	01			688+	DC	HL1' 1'	m5
00001389	00			689+	DC	HL1' 0'	cc
0000138A	07			690+	DC	HL1' 7'	cc failed mask
00001390	FFFFFFFF FFFFFFFF6			691+V2_5	DC	FD' - 10'	binary value for v2 packed decimal
00001398	00000000 0000000A			692+V3_5	DC	FD' +10'	binary value for v3 packed decimal

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
000013A0	E5C1D740 40404040			693+	DC	CL8' VAP'	instruction name
000013A8	00000010			694+	DC	A(16)	result length
000013AC	000013EC			695+REA5	DC	A(RE5)	result address
				696+*			INSTRUCTION UNDER TEST ROUTINE
000013B0				697+X5	DS	0F	
000013B0	E320 5010 0004		00001390	698+	LG	R2, V2_5	convert v2
000013B6	E320 8F4F 002E		0000114F	699+	CVDG	R2, V2PACKED	
000013BC	E720 8F4F 0006		0000114F	700+	VL	V2, V2PACKED	
000013C2	E320 5018 0004		00001398	701+	LG	R2, V3_5	convert v3
000013C8	E320 8F5F 002E		0000115F	702+	CVDG	R2, V3PACKED	
000013CE	E730 8F5F 0006		0000115F	703+	VL	V3, V3PACKED	
000013D4	E612 3010 7071			704+	VAP	V1, V2, V3, 7, 1	test instruction
000013DA	E710 8F00 000E		00001100	705+	VST	V1, V10OUTPUT	save result
000013E0	B98D 0020			706+	EPSW	R2, R0	exptract psw
000013E4	5020 8EE4		000010E4	707+	ST	R2, CCPSW	to save CC
000013E8	07FB			708+	BR	R11	return
000013EC				709+RE5	DC	0F	
000013EC				710+	DROP	R5	
000013EC	00000000 00000000			711	DC	XL16' 00000000000000000000000000000000C'	
000013F4	00000000 0000000C						
				712			
				713	VRI_F	VAP, +10000000000, +10, 135, 1, 3	i4=135(iom=1 & rdc=7)
00001400				714+	DS	0FD	
00001400		00001400		715+	USING	*, R5	base for test data and test routine
00001400	00001430			716+T6	DC	A(X6)	address of test routine
00001404	0006			717+	DC	H' 6'	test number
00001406	00			718+	DC	X' 00'	
00001407	87			719+	DC	HL1' 135'	i4
00001408	01			720+	DC	HL1' 1'	m5
00001409	03			721+	DC	HL1' 3'	cc
0000140A	0E			722+	DC	HL1' 14'	cc failed mask
00001410	00000002 540BE400			723+V2_6	DC	FD' +10000000000'	binary value for v2 packed decimal
00001418	00000000 0000000A			724+V3_6	DC	FD' +10'	binary value for v3 packed decimal
00001420	E5C1D740 40404040			725+	DC	CL8' VAP'	instruction name
00001428	00000010			726+	DC	A(16)	result length
0000142C	0000146C			727+REA6	DC	A(RE6)	result address
				728+*			INSTRUCTION UNDER TEST ROUTINE
00001430				729+X6	DS	0F	
00001430	E320 5010 0004		00001410	730+	LG	R2, V2_6	convert v2
00001436	E320 8F4F 002E		0000114F	731+	CVDG	R2, V2PACKED	
0000143C	E720 8F4F 0006		0000114F	732+	VL	V2, V2PACKED	
00001442	E320 5018 0004		00001418	733+	LG	R2, V3_6	convert v3
00001448	E320 8F5F 002E		0000115F	734+	CVDG	R2, V3PACKED	
0000144E	E730 8F5F 0006		0000115F	735+	VL	V3, V3PACKED	
00001454	E612 3018 7071			736+	VAP	V1, V2, V3, 135, 1	test instruction
0000145A	E710 8F00 000E		00001100	737+	VST	V1, V10OUTPUT	save result
00001460	B98D 0020			738+	EPSW	R2, R0	exptract psw
00001464	5020 8EE4		000010E4	739+	ST	R2, CCPSW	to save CC
00001468	07FB			740+	BR	R11	return
0000146C				741+RE6	DC	0F	
0000146C				742+	DROP	R5	
0000146C	00000000 00000000			743	DC	XL16' 0000000000000000000000000000000010C'	
00001474	00000000 0000010C						
				744			
				745	*	VAP larger #'s , i4=159(iom=1 & rdc=31)	
				746	VRI_F	VAP, +9999999999999999, +1, 159, 1, 2	



LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
00001480				747+	DS	OFD
00001480		00001480		748+	USING	*, R5
00001480	000014B0			749+T7	DC	A(X7)
00001484	0007			750+	DC	H' 7'
00001486	00			751+	DC	X' 00'
00001487	9F			752+	DC	HL1' 159'
00001488	01			753+	DC	HL1' 1'
00001489	02			754+	DC	HL1' 2'
0000148A	0D			755+	DC	HL1' 13'
				756+V2_7	DC	FD' +9999999999999999' \
00001490	01634578 5D89FFFF			+		binary value for v2 packed decimal
00001498	00000000 00000001			757+V3_7	DC	FD' +1'
000014A0	E5C1D740 40404040			758+	DC	CL8' VAP'
000014A8	00000010			759+	DC	A(16)
000014AC	000014EC			760+REA7	DC	A(RE7)
				761+*		INSTRUCTION UNDER TEST ROUTINE
000014B0				762+X7	DS	OF
000014B0	E320 5010 0004		00001490	763+	LG	R2, V2_7
000014B6	E320 8F4F 002E		0000114F	764+	CVDG	R2, V2PACKED
000014BC	E720 8F4F 0006		0000114F	765+	VL	V2, V2PACKED
000014C2	E320 5018 0004		00001498	766+	LG	R2, V3_7
000014C8	E320 8F5F 002E		0000115F	767+	CVDG	R2, V3PACKED
000014CE	E730 8F5F 0006		0000115F	768+	VL	V3, V3PACKED
000014D4	E612 3019 F071			769+	VAP	V1, V2, V3, 159, 1
000014DA	E710 8F00 000E		00001100	770+	VST	V1, V10UTPUT
000014E0	B98D 0020			771+	EPSW	R2, R0
000014E4	5020 8EE4		000010E4	772+	ST	R2, CCPSW
000014E8	07FB			773+	BR	R11
000014EC				774+RE7	DC	OF
000014EC				775+	DROP	R5
000014EC	00000000 00000100			776	DC	XL16' 000000000000010000000000000000C'
000014F4	00000000 0000000C					
				777		
				778	VRI_F	VAP, +9999999999999999, +1000000000000000, 159, 1, 2
00001500				779+	DS	OFD
00001500		00001500		780+	USING	*, R5
00001500	00001530			781+T8	DC	A(X8)
00001504	0008			782+	DC	H' 8'
00001506	00			783+	DC	X' 00'
00001507	9F			784+	DC	HL1' 159'
00001508	01			785+	DC	HL1' 1'
00001509	02			786+	DC	HL1' 2'
0000150A	0D			787+	DC	HL1' 13'
				788+V2_8	DC	FD' +9999999999999999' \
00001510	01634578 5D89FFFF			+		binary value for v2 packed decimal
				789+V3_8	DC	FD' +1000000000000000' \
00001518	002386F2 6FC10000			+		binary value for v3 packed decimal
00001520	E5C1D740 40404040			790+	DC	CL8' VAP'
00001528	00000010			791+	DC	A(16)
0000152C	0000156C			792+REA8	DC	A(RE8)
				793+*		INSTRUCTION UNDER TEST ROUTINE
00001530				794+X8	DS	OF
00001530	E320 5010 0004		00001510	795+	LG	R2, V2_8
00001536	E320 8F4F 002E		0000114F	796+	CVDG	R2, V2PACKED
0000153C	E720 8F4F 0006		0000114F	797+	VL	V2, V2PACKED
00001542	E320 5018 0004		00001518	798+	LG	R2, V3_8

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00001548	E320 8F5F 002E		0000115F	799+	CVDG	R2, V3PACKED	
0000154E	E730 8F5F 0006		0000115F	800+	VL	V3, V3PACKED	
00001554	E612 3019 F071			801+	VAP	V1, V2, V3, 159, 1	test instruction
0000155A	E710 8F00 000E		00001100	802+	VST	V1, V10OUTPUT	save result
00001560	B98D 0020			803+	EPSW	R2, R0	exptract psw
00001564	5020 8EE4		000010E4	804+	ST	R2, CCPSW	to save CC
00001568	07FB			805+	BR	R11	return
0000156C				806+RE8	DC	0F	
0000156C				807+	DROP	R5	
0000156C	00000000 00000109			808	DC	XL16' 0000000000000010999999999999999C'	
00001574	99999999 9999999C						
				809			
				810	VRI_F	VAP, - 9999999999999999, - 1, 159, 1, 1	
00001580				811+	DS	0FD	
00001580		00001580		812+	USING	*, R5	base for test data and test routine
00001580	000015B0			813+T9	DC	A(X9)	address of test routine
00001584	0009			814+	DC	H' 9'	test number
00001586	00			815+	DC	X' 00'	
00001587	9F			816+	DC	HL1' 159'	i4
00001588	01			817+	DC	HL1' 1'	m5
00001589	01			818+	DC	HL1' 1'	cc
0000158A	0B			819+	DC	HL1' 11'	cc failed mask
				820+V2_9	DC	FD' - 9999999999999999' \	
00001590	FFDC790D 903F0001			+			binary value for v2 packed decimal
00001598	FFFFFFFF FFFFFFFF			821+V3_9	DC	FD' - 1'	binary value for v3 packed decimal
000015A0	E5C1D740 40404040			822+	DC	CL8' VAP'	instruction name
000015A8	00000010			823+	DC	A(16)	result length
000015AC	000015EC			824+REA9	DC	A(RE9)	result address
				825+*			INSTRUCTION UNDER TEST ROUTINE
000015B0				826+X9	DS	0F	
000015B0	E320 5010 0004		00001590	827+	LG	R2, V2_9	convert v2
000015B6	E320 8F4F 002E		0000114F	828+	CVDG	R2, V2PACKED	
000015BC	E720 8F4F 0006		0000114F	829+	VL	V2, V2PACKED	
000015C2	E320 5018 0004		00001598	830+	LG	R2, V3_9	convert v3
000015C8	E320 8F5F 002E		0000115F	831+	CVDG	R2, V3PACKED	
000015CE	E730 8F5F 0006		0000115F	832+	VL	V3, V3PACKED	
000015D4	E612 3019 F071			833+	VAP	V1, V2, V3, 159, 1	test instruction
000015DA	E710 8F00 000E		00001100	834+	VST	V1, V10OUTPUT	save result
000015E0	B98D 0020			835+	EPSW	R2, R0	exptract psw
000015E4	5020 8EE4		000010E4	836+	ST	R2, CCPSW	to save CC
000015E8	07FB			837+	BR	R11	return
000015EC				838+RE9	DC	0F	
000015EC				839+	DROP	R5	
000015EC	00000000 00000010			840	DC	XL16' 000000000000001000000000000000D'	
000015F4	00000000 0000000D						
				841			
				842	* VAP larger #'s , i4=159(iom=1 & rdc=31)		CS=1 for all m5
				843	* check forced positive		
				844	VRI_F	VAP, - 9999999999999999, +1, 159, 9, 2	m5=9(P2=1)
00001600				845+	DS	0FD	
00001600		00001600		846+	USING	*, R5	base for test data and test routine
00001600	00001630			847+T10	DC	A(X10)	address of test routine
00001604	000A			848+	DC	H' 10'	test number
00001606	00			849+	DC	X' 00'	
00001607	9F			850+	DC	HL1' 159'	i4
00001608	09			851+	DC	HL1' 9'	m5

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00001609	02			852+	DC	HL1' 2'	cc
0000160A	0D			853+	DC	HL1' 13'	cc failed mask
				854+V2_10	DC	FD' - 9999999999999999' \	
00001610	FE9CBA87 A2760001			+			binary value for v2 packed decimal
00001618	00000000 00000001			855+V3_10	DC	FD' +1'	binary value for v3 packed decimal
00001620	E5C1D740 40404040			856+	DC	CL8' VAP'	instruction name
00001628	00000010			857+	DC	A(16)	result length
0000162C	0000166C			858+REA10	DC	A(RE10)	result address
				859+*			INSTRUCTION UNDER TEST ROUTINE
00001630				860+X10	DS	0F	
00001630	E320 5010 0004		00001610	861+	LG	R2, V2_10	convert v2
00001636	E320 8F4F 002E		0000114F	862+	CVDG	R2, V2PACKED	
0000163C	E720 8F4F 0006		0000114F	863+	VL	V2, V2PACKED	
00001642	E320 5018 0004		00001618	864+	LG	R2, V3_10	convert v3
00001648	E320 8F5F 002E		0000115F	865+	CVDG	R2, V3PACKED	
0000164E	E730 8F5F 0006		0000115F	866+	VL	V3, V3PACKED	
00001654	E612 3099 F071			867+	VAP	V1, V2, V3, 159, 9	test instruction
0000165A	E710 8F00 000E		00001100	868+	VST	V1, V10UTPUT	save result
00001660	B98D 0020			869+	EPSW	R2, R0	exptract psw
00001664	5020 8EE4		000010E4	870+	ST	R2, CCPSW	to save CC
00001668	07FB			871+	BR	R11	return
0000166C				872+RE10	DC	0F	
0000166C				873+	DROP	R5	
0000166C	00000000 00000100			874	DC	XL16' 000000000000010000000000000000C'	
00001674	00000000 0000000C						
				875			
				876	VRI_F	VAP, - 9999999999999999, - 1000000000000000, 159, 13, 2	
00001680				877+	DS	0FD	
00001680		00001680		878+	USING	*, R5	base for test data and test routine
00001680	000016B0			879+T11	DC	A(X11)	address of test routine
00001684	000B			880+	DC	H' 11'	test number
00001686	00			881+	DC	X' 00'	
00001687	9F			882+	DC	HL1' 159'	i4
00001688	0D			883+	DC	HL1' 13'	m5
00001689	02			884+	DC	HL1' 2'	cc
0000168A	0D			885+	DC	HL1' 13'	cc failed mask
				886+V2_11	DC	FD' - 9999999999999999' \	
00001690	FE9CBA87 A2760001			+			binary value for v2 packed decimal
				887+V3_11	DC	FD' - 1000000000000000' \	
00001698	FFDC790D 903F0000			+			binary value for v3 packed decimal
000016A0	E5C1D740 40404040			888+	DC	CL8' VAP'	instruction name
000016A8	00000010			889+	DC	A(16)	result length
000016AC	000016EC			890+REA11	DC	A(RE11)	result address
				891+*			INSTRUCTION UNDER TEST ROUTINE
000016B0				892+X11	DS	0F	
000016B0	E320 5010 0004		00001690	893+	LG	R2, V2_11	convert v2
000016B6	E320 8F4F 002E		0000114F	894+	CVDG	R2, V2PACKED	
000016BC	E720 8F4F 0006		0000114F	895+	VL	V2, V2PACKED	
000016C2	E320 5018 0004		00001698	896+	LG	R2, V3_11	convert v3
000016C8	E320 8F5F 002E		0000115F	897+	CVDG	R2, V3PACKED	
000016CE	E730 8F5F 0006		0000115F	898+	VL	V3, V3PACKED	
000016D4	E612 30D9 F071			899+	VAP	V1, V2, V3, 159, 13	test instruction
000016DA	E710 8F00 000E		00001100	900+	VST	V1, V10UTPUT	save result
000016E0	B98D 0020			901+	EPSW	R2, R0	exptract psw
000016E4	5020 8EE4		000010E4	902+	ST	R2, CCPSW	to save CC
000016E8	07FB			903+	BR	R11	return



LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
000016EC				904+RE11	DC	0F
000016EC				905+	DROP	R5
000016EC	00000000 00000109			906	DC	XL16' 0000000000000010999999999999999C' m5=13(P2=1, P3=1)
000016F4	99999999 9999999C					
				907		
				908	VRI_F	VAP, - 9999999999999999, - 1, 159, 3, 2 m5=3(P1=1)
00001700				909+	DS	0FD
00001700		00001700		910+	USING	*, R5 base for test data and test routine
00001700	00001730			911+T12	DC	A(X12) address of test routine
00001704	000C			912+	DC	H' 12' test number
00001706	00			913+	DC	X' 00'
00001707	9F			914+	DC	HL1' 159' i4
00001708	03			915+	DC	HL1' 3' m5
00001709	02			916+	DC	HL1' 2' cc
0000170A	0D			917+	DC	HL1' 13' cc failed mask
				918+V2_12	DC	FD' - 9999999999999999' \
00001710	FFDC790D 903F0001			+		binary value for v2 packed decimal
00001718	FFFFFFFF FFFFFFFF			919+V3_12	DC	FD' - 1' binary value for v3 packed decimal
00001720	E5C1D740 40404040			920+	DC	CL8' VAP' instruction name
00001728	00000010			921+	DC	A(16) result length
0000172C	0000176C			922+REA12	DC	A(RE12) result address
				923+*		INSTRUCTION UNDER TEST ROUTINE
00001730				924+X12	DS	0F
00001730	E320 5010 0004		00001710	925+	LG	R2, V2_12 convert v2
00001736	E320 8F4F 002E		0000114F	926+	CVDG	R2, V2PACKED
0000173C	E720 8F4F 0006		0000114F	927+	VL	V2, V2PACKED
00001742	E320 5018 0004		00001718	928+	LG	R2, V3_12 convert v3
00001748	E320 8F5F 002E		0000115F	929+	CVDG	R2, V3PACKED
0000174E	E730 8F5F 0006		0000115F	930+	VL	V3, V3PACKED
00001754	E612 3039 F071			931+	VAP	V1, V2, V3, 159, 3 test instruction
0000175A	E710 8F00 000E		00001100	932+	VST	V1, V10OUTPUT save result
00001760	B98D 0020			933+	EPSW	R2, R0 exptract psw
00001764	5020 8EE4		000010E4	934+	ST	R2, CCPSW to save CC
00001768	07FB			935+	BR	R11 return
0000176C				936+RE12	DC	0F
0000176C				937+	DROP	R5
0000176C	00000000 00000010			938	DC	XL16' 000000000000001000000000000000F'
00001774	00000000 0000000F					
				939		
				940 *		-----
				941 * VSP		- VECTOR SUBTRACT DECIMAL
				942 *		-----
				943 * VSP simple + CC checks		
				944	VRI_F	VSP, +10, +12, 7, 1, 1
00001780				945+	DS	0FD
00001780		00001780		946+	USING	*, R5 base for test data and test routine
00001780	000017B0			947+T13	DC	A(X13) address of test routine
00001784	000D			948+	DC	H' 13' test number
00001786	00			949+	DC	X' 00'
00001787	07			950+	DC	HL1' 7' i4
00001788	01			951+	DC	HL1' 1' m5
00001789	01			952+	DC	HL1' 1' cc
0000178A	0B			953+	DC	HL1' 11' cc failed mask
00001790	00000000 0000000A			954+V2_13	DC	FD' +10' binary value for v2 packed decimal
00001798	00000000 0000000C			955+V3_13	DC	FD' +12' binary value for v3 packed decimal
000017A0	E5E2D740 40404040			956+	DC	CL8' VSP' instruction name

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	
000017A8	00000010				957+	DC A(16) result length
000017AC	000017EC				958+REA13	DC A(RE13) result address
					959+*	INSTRUCTION UNDER TEST ROUTINE
000017B0					960+X13	DS 0F
000017B0	E320 5010 0004		00001790		961+	LG R2, V2_13 convert v2
000017B6	E320 8F4F 002E		0000114F		962+	CVDG R2, V2PACKED
000017BC	E720 8F4F 0006		0000114F		963+	VL V2, V2PACKED
000017C2	E320 5018 0004		00001798		964+	LG R2, V3_13 convert v3
000017C8	E320 8F5F 002E		0000115F		965+	CVDG R2, V3PACKED
000017CE	E730 8F5F 0006		0000115F		966+	VL V3, V3PACKED
000017D4	E612 3010 7073				967+	VSP V1, V2, V3, 7, 1 test instruction
000017DA	E710 8F00 000E		00001100		968+	VST V1, V10UTPUT save result
000017E0	B98D 0020				969+	EPSW R2, R0 exptract psw
000017E4	5020 8EE4		000010E4		970+	ST R2, CCPSW to save CC
000017E8	07FB				971+	BR R11 return
000017EC					972+RE13	DC 0F
000017EC					973+	DROP R5
000017EC	00000000 00000000				974	DC XL16' 00000000000000000000000000002D'
000017F4	00000000 0000002D					
					975	
					976	VRI_F VSP, - 10, +12, 7, 1, 1
00001800					977+	DS 0FD
00001800			00001800		978+	USING *, R5 base for test data and test routine
00001800	00001830				979+T14	DC A(X14) address of test routine
00001804	000E				980+	DC H' 14' test number
00001806	00				981+	DC X' 00'
00001807	07				982+	DC HL1' 7' i4
00001808	01				983+	DC HL1' 1' m5
00001809	01				984+	DC HL1' 1' cc
0000180A	0B				985+	DC HL1' 11' cc failed mask
00001810	FFFFFFFF FFFFFFFF6				986+V2_14	DC FD' - 10' binary value for v2 packed decimal
00001818	00000000 0000000C				987+V3_14	DC FD' +12' binary value for v3 packed decimal
00001820	E5E2D740 40404040				988+	DC CL8' VSP' instruction name
00001828	00000010				989+	DC A(16) result length
0000182C	0000186C				990+REA14	DC A(RE14) result address
					991+*	INSTRUCTION UNDER TEST ROUTINE
00001830					992+X14	DS 0F
00001830	E320 5010 0004		00001810		993+	LG R2, V2_14 convert v2
00001836	E320 8F4F 002E		0000114F		994+	CVDG R2, V2PACKED
0000183C	E720 8F4F 0006		0000114F		995+	VL V2, V2PACKED
00001842	E320 5018 0004		00001818		996+	LG R2, V3_14 convert v3
00001848	E320 8F5F 002E		0000115F		997+	CVDG R2, V3PACKED
0000184E	E730 8F5F 0006		0000115F		998+	VL V3, V3PACKED
00001854	E612 3010 7073				999+	VSP V1, V2, V3, 7, 1 test instruction
0000185A	E710 8F00 000E		00001100		1000+	VST V1, V10UTPUT save result
00001860	B98D 0020				1001+	EPSW R2, R0 exptract psw
00001864	5020 8EE4		000010E4		1002+	ST R2, CCPSW to save CC
00001868	07FB				1003+	BR R11 return
0000186C					1004+RE14	DC 0F
0000186C					1005+	DROP R5
0000186C	00000000 00000000				1006	DC XL16' 000000000000000000000000000022D'
00001874	00000000 0000022D					
					1007	
					1008	VRI_F VSP, +10, - 12, 1, 1, 3
00001880					1009+	DS 0FD
00001880			00001880		1010+	USING *, R5 base for test data and test routine

LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
00001880	000018B0			1011+T15	DC	A(X15)
00001884	000F			1012+	DC	H' 15'
00001886	00			1013+	DC	X' 00'
00001887	01			1014+	DC	HL1' 1'
00001888	01			1015+	DC	HL1' 1'
00001889	03			1016+	DC	HL1' 3'
0000188A	0E			1017+	DC	HL1' 14'
00001890	00000000 0000000A			1018+V2_15	DC	FD' +10'
00001898	FFFFFFFF FFFFFFFF4			1019+V3_15	DC	FD' -12'
000018A0	E5E2D740 40404040			1020+	DC	CL8' VSP'
000018A8	00000010			1021+	DC	A(16)
000018AC	000018EC			1022+REA15	DC	A(RE15)
				1023+*		
000018B0				1024+X15	DS	0F
000018B0	E320 5010 0004		00001890	1025+	LG	R2, V2_15
000018B6	E320 8F4F 002E		0000114F	1026+	CVDG	R2, V2PACKED
000018BC	E720 8F4F 0006		0000114F	1027+	VL	V2, V2PACKED
000018C2	E320 5018 0004		00001898	1028+	LG	R2, V3_15
000018C8	E320 8F5F 002E		0000115F	1029+	CVDG	R2, V3PACKED
000018CE	E730 8F5F 0006		0000115F	1030+	VL	V3, V3PACKED
000018D4	E612 3010 1073			1031+	VSP	V1, V2, V3, 1, 1
000018DA	E710 8F00 000E		00001100	1032+	VST	V1, V10OUTPUT
000018E0	B98D 0020			1033+	EPSW	R2, R0
000018E4	5020 8EE4		000010E4	1034+	ST	R2, CCPSW
000018E8	07FB			1035+	BR	R11
000018EC				1036+RE15	DC	0F
000018EC				1037+	DROP	R5
000018EC	00000000 00000000			1038	DC	XL16' 000000000000000000000000000000002C'
000018F4	00000000 0000002C					
				1039		
				1040	VRI_F	VSP, +10, -12, 7, 1, 2
00001900				1041+	DS	0FD
00001900		00001900		1042+	USING	*, R5
00001900	00001930			1043+T16	DC	A(X16)
00001904	0010			1044+	DC	H' 16'
00001906	00			1045+	DC	X' 00'
00001907	07			1046+	DC	HL1' 7'
00001908	01			1047+	DC	HL1' 1'
00001909	02			1048+	DC	HL1' 2'
0000190A	0D			1049+	DC	HL1' 13'
00001910	00000000 0000000A			1050+V2_16	DC	FD' +10'
00001918	FFFFFFFF FFFFFFFF4			1051+V3_16	DC	FD' -12'
00001920	E5E2D740 40404040			1052+	DC	CL8' VSP'
00001928	00000010			1053+	DC	A(16)
0000192C	0000196C			1054+REA16	DC	A(RE16)
				1055+*		
00001930				1056+X16	DS	0F
00001930	E320 5010 0004		00001910	1057+	LG	R2, V2_16
00001936	E320 8F4F 002E		0000114F	1058+	CVDG	R2, V2PACKED
0000193C	E720 8F4F 0006		0000114F	1059+	VL	V2, V2PACKED
00001942	E320 5018 0004		00001918	1060+	LG	R2, V3_16
00001948	E320 8F5F 002E		0000115F	1061+	CVDG	R2, V3PACKED
0000194E	E730 8F5F 0006		0000115F	1062+	VL	V3, V3PACKED
00001954	E612 3010 7073			1063+	VSP	V1, V2, V3, 7, 1
0000195A	E710 8F00 000E		00001100	1064+	VST	V1, V10OUTPUT
00001960	B98D 0020			1065+	EPSW	R2, R0

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00001964	5020 8EE4		000010E4	1066+	ST	R2, CCPSW	to save CC
00001968	07FB			1067+	BR	R11	return
0000196C				1068+RE16	DC	0F	
0000196C				1069+	DROP	R5	
0000196C	00000000 00000000			1070	DC	XL16' 0000000000000000000000000000000022C'	
00001974	00000000 0000022C						
				1071			
				1072	VRI_F	VSP, - 10, - 12, 7, 1, 2	
00001980				1073+	DS	0FD	
00001980		00001980		1074+	USING	*, R5	base for test data and test routine
00001980	000019B0			1075+T17	DC	A(X17)	address of test routine
00001984	0011			1076+	DC	H' 17'	test number
00001986	00			1077+	DC	X' 00'	
00001987	07			1078+	DC	HL1' 7'	i4
00001988	01			1079+	DC	HL1' 1'	m5
00001989	02			1080+	DC	HL1' 2'	cc
0000198A	0D			1081+	DC	HL1' 13'	cc failed mask
00001990	FFFFFFFF FFFFFFFF6			1082+V2_17	DC	FD' - 10'	binary value for v2 packed decimal
00001998	FFFFFFFF FFFFFFFF4			1083+V3_17	DC	FD' - 12'	binary value for v3 packed decimal
000019A0	E5E2D740 40404040			1084+	DC	CL8' VSP'	instruction name
000019A8	00000010			1085+	DC	A(16)	result length
000019AC	000019EC			1086+REA17	DC	A(RE17)	result address
				1087+*			INSTRUCTION UNDER TEST ROUTINE
000019B0				1088+X17	DS	0F	
000019B0	E320 5010 0004		00001990	1089+	LG	R2, V2_17	convert v2
000019B6	E320 8F4F 002E		0000114F	1090+	CVDG	R2, V2PACKED	
000019BC	E720 8F4F 0006		0000114F	1091+	VL	V2, V2PACKED	
000019C2	E320 5018 0004		00001998	1092+	LG	R2, V3_17	convert v3
000019C8	E320 8F5F 002E		0000115F	1093+	CVDG	R2, V3PACKED	
000019CE	E730 8F5F 0006		0000115F	1094+	VL	V3, V3PACKED	
000019D4	E612 3010 7073			1095+	VSP	V1, V2, V3, 7, 1	test instruction
000019DA	E710 8F00 000E		00001100	1096+	VST	V1, V10UTPUT	save result
000019E0	B98D 0020			1097+	EPSW	R2, R0	exptract psw
000019E4	5020 8EE4		000010E4	1098+	ST	R2, CCPSW	to save CC
000019E8	07FB			1099+	BR	R11	return
000019EC				1100+RE17	DC	0F	
000019EC				1101+	DROP	R5	
000019EC	00000000 00000000			1102	DC	XL16' 000000000000000000000000000000002C'	
000019F4	00000000 0000002C						
				1103			
				1104	VRI_F	VSP, - 10, - 10, 7, 1, 0	
00001A00				1105+	DS	0FD	
00001A00		00001A00		1106+	USING	*, R5	base for test data and test routine
00001A00	00001A30			1107+T18	DC	A(X18)	address of test routine
00001A04	0012			1108+	DC	H' 18'	test number
00001A06	00			1109+	DC	X' 00'	
00001A07	07			1110+	DC	HL1' 7'	i4
00001A08	01			1111+	DC	HL1' 1'	m5
00001A09	00			1112+	DC	HL1' 0'	cc
00001A0A	07			1113+	DC	HL1' 7'	cc failed mask
00001A10	FFFFFFFF FFFFFFFF6			1114+V2_18	DC	FD' - 10'	binary value for v2 packed decimal
00001A18	FFFFFFFF FFFFFFFF6			1115+V3_18	DC	FD' - 10'	binary value for v3 packed decimal
00001A20	E5E2D740 40404040			1116+	DC	CL8' VSP'	instruction name
00001A28	00000010			1117+	DC	A(16)	result length
00001A2C	00001A6C			1118+REA18	DC	A(RE18)	result address
				1119+*			INSTRUCTION UNDER TEST ROUTINE



LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00001A30				1120+X18	DS	0F	
00001A30	E320 5010 0004		00001A10	1121+	LG	R2, V2_18	convert v2
00001A36	E320 8F4F 002E		0000114F	1122+	CVDG	R2, V2PACKED	
00001A3C	E720 8F4F 0006		0000114F	1123+	VL	V2, V2PACKED	
00001A42	E320 5018 0004		00001A18	1124+	LG	R2, V3_18	convert v3
00001A48	E320 8F5F 002E		0000115F	1125+	CVDG	R2, V3PACKED	
00001A4E	E730 8F5F 0006		0000115F	1126+	VL	V3, V3PACKED	
00001A54	E612 3010 7073			1127+	VSP	V1, V2, V3, 7, 1	test instruction
00001A5A	E710 8F00 000E		00001100	1128+	VST	V1, V10UTPUT	save result
00001A60	B98D 0020			1129+	EPSW	R2, R0	exptract psw
00001A64	5020 8EE4		000010E4	1130+	ST	R2, CCPSW	to save CC
00001A68	07FB			1131+	BR	R11	return
00001A6C				1132+RE18	DC	0F	
00001A6C				1133+	DROP	R5	
00001A6C	00000000 00000000			1134	DC	XL16' 00000000000000000000000000000000C'	
00001A74	00000000 0000000C						
				1135			
00001A80				1136	VRI_F	VSP, +10000000000, +10, 135, 1, 3	i4=135(iom=1 & rdc=7)
00001A80		00001A80		1137+	DS	0FD	
00001A80	00001AB0			1138+	USING	*, R5	base for test data and test routine
00001A84	0013			1139+T19	DC	A(X19)	address of test routine
00001A86	00			1140+	DC	H' 19'	test number
00001A86	00			1141+	DC	X' 00'	
00001A87	87			1142+	DC	HL1' 135'	i4
00001A88	01			1143+	DC	HL1' 1'	m5
00001A89	03			1144+	DC	HL1' 3'	cc
00001A8A	0E			1145+	DC	HL1' 14'	cc failed mask
00001A90	00000002 540BE400			1146+V2_19	DC	FD' +10000000000'	binary value for v2 packed decimal
00001A98	00000000 0000000A			1147+V3_19	DC	FD' +10'	binary value for v3 packed decimal
00001AA0	E5E2D740 40404040			1148+	DC	CL8' VSP'	instruction name
00001AA8	00000010			1149+	DC	A(16)	result length
00001AAC	00001AEC			1150+REA19	DC	A(RE19)	result address
				1151+*			INSTRUCTION UNDER TEST ROUTINE
00001AB0				1152+X19	DS	0F	
00001AB0	E320 5010 0004		00001A90	1153+	LG	R2, V2_19	convert v2
00001AB6	E320 8F4F 002E		0000114F	1154+	CVDG	R2, V2PACKED	
00001ABC	E720 8F4F 0006		0000114F	1155+	VL	V2, V2PACKED	
00001AC2	E320 5018 0004		00001A98	1156+	LG	R2, V3_19	convert v3
00001AC8	E320 8F5F 002E		0000115F	1157+	CVDG	R2, V3PACKED	
00001ACE	E730 8F5F 0006		0000115F	1158+	VL	V3, V3PACKED	
00001AD4	E612 3018 7073			1159+	VSP	V1, V2, V3, 135, 1	test instruction
00001ADA	E710 8F00 000E		00001100	1160+	VST	V1, V10UTPUT	save result
00001AE0	B98D 0020			1161+	EPSW	R2, R0	exptract psw
00001AE4	5020 8EE4		000010E4	1162+	ST	R2, CCPSW	to save CC
00001AE8	07FB			1163+	BR	R11	return
00001AEC				1164+RE19	DC	0F	
00001AEC				1165+	DROP	R5	
00001AEC	00000000 00000000			1166	DC	XL16' 00000000000000000000000009999990C'	note RDC
00001AF4	00000000 9999990C						
				1167			
				1168 * VSP larger #'s ,			i4=159(iom=1 & rdc=31)
				1169	VRI_F	VSP, +9999999999999999, +1, 159, 1, 2	
00001B00				1170+	DS	0FD	
00001B00		00001B00		1171+	USING	*, R5	base for test data and test routine
00001B00	00001B30			1172+T20	DC	A(X20)	address of test routine
00001B04	0014			1173+	DC	H' 20'	test number

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00001B06	00			1174+	DC	X' 00'	
00001B07	9F			1175+	DC	HL1' 159'	i4
00001B08	01			1176+	DC	HL1' 1'	m5
00001B09	02			1177+	DC	HL1' 2'	cc
00001B0A	0D			1178+	DC	HL1' 13'	cc failed mask
				1179+V2_20	DC	FD' +9999999999999999' \	
00001B10	01634578 5D89FFFF			+			binary value for v2 packed decimal
00001B18	00000000 00000001			1180+V3_20	DC	FD' +1'	binary value for v3 packed decimal
00001B20	E5E2D740 40404040			1181+	DC	CL8' VSP'	instruction name
00001B28	00000010			1182+	DC	A(16)	result length
00001B2C	00001B6C			1183+REA20	DC	A(RE20)	result address
				1184+*			INSTRUCTION UNDER TEST ROUTINE
00001B30				1185+X20	DS	0F	
00001B30	E320 5010 0004		00001B10	1186+	LG	R2, V2_20	convert v2
00001B36	E320 8F4F 002E		0000114F	1187+	CVDG	R2, V2PACKED	
00001B3C	E720 8F4F 0006		0000114F	1188+	VL	V2, V2PACKED	
00001B42	E320 5018 0004		00001B18	1189+	LG	R2, V3_20	convert v3
00001B48	E320 8F5F 002E		0000115F	1190+	CVDG	R2, V3PACKED	
00001B4E	E730 8F5F 0006		0000115F	1191+	VL	V3, V3PACKED	
00001B54	E612 3019 F073			1192+	VSP	V1, V2, V3, 159, 1	test instruction
00001B5A	E710 8F00 000E		00001100	1193+	VST	V1, V10UTPUT	save result
00001B60	B98D 0020			1194+	EPSW	R2, R0	exptract psw
00001B64	5020 8EE4		000010E4	1195+	ST	R2, CCPSW	to save CC
00001B68	07FB			1196+	BR	R11	return
00001B6C				1197+RE20	DC	0F	
00001B6C				1198+	DROP	R5	
00001B6C	00000000 00000099			1199	DC	XL16' 00000000000000009999999999999998C'	
00001B74	99999999 9999998C						
				1200			
00001B80				1201	VRI_F	VSP, +9999999999999999, +1000000000000000, 159, 1, 2	
00001B80		00001B80		1202+	DS	0FD	
00001B80	00001BB0			1203+	USING	*, R5	base for test data and test routine
00001B84	0015			1204+T21	DC	A(X21)	address of test routine
00001B86	00			1205+	DC	H' 21'	test number
00001B87	9F			1206+	DC	X' 00'	
00001B87	9F			1207+	DC	HL1' 159'	i4
00001B88	01			1208+	DC	HL1' 1'	m5
00001B89	02			1209+	DC	HL1' 2'	cc
00001B8A	0D			1210+	DC	HL1' 13'	cc failed mask
				1211+V2_21	DC	FD' +9999999999999999' \	
00001B90	01634578 5D89FFFF			+			binary value for v2 packed decimal
				1212+V3_21	DC	FD' +1000000000000000' \	
00001B98	002386F2 6FC10000			+			binary value for v3 packed decimal
00001BA0	E5E2D740 40404040			1213+	DC	CL8' VSP'	instruction name
00001BA8	00000010			1214+	DC	A(16)	result length
00001BAC	00001BEC			1215+REA21	DC	A(RE21)	result address
				1216+*			INSTRUCTION UNDER TEST ROUTINE
00001BB0				1217+X21	DS	0F	
00001BB0	E320 5010 0004		00001B90	1218+	LG	R2, V2_21	convert v2
00001BB6	E320 8F4F 002E		0000114F	1219+	CVDG	R2, V2PACKED	
00001BBC	E720 8F4F 0006		0000114F	1220+	VL	V2, V2PACKED	
00001BC2	E320 5018 0004		00001B98	1221+	LG	R2, V3_21	convert v3
00001BC8	E320 8F5F 002E		0000115F	1222+	CVDG	R2, V3PACKED	
00001BCE	E730 8F5F 0006		0000115F	1223+	VL	V3, V3PACKED	
00001BD4	E612 3019 F073			1224+	VSP	V1, V2, V3, 159, 1	test instruction
00001BDA	E710 8F00 000E		00001100	1225+	VST	V1, V10UTPUT	save result

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00001BE0	B98D 0020			1226+	EPSW	R2, R0	exptract psw
00001BE4	5020 8EE4		000010E4	1227+	ST	R2, CCPSW	to save CC
00001BE8	07FB			1228+	BR	R11	return
00001BEC				1229+RE21	DC	0F	
00001BEC				1230+	DROP	R5	
00001BEC	00000000 00000089			1231	DC	XL16' 0000000000000000899999999999999C'	
00001BF4	99999999 9999999C						
				1232			
				1233	VRI_F	VSP, - 9999999999999999, - 1, 159, 1, 1	
00001C00				1234+	DS	0FD	
00001C00		00001C00		1235+	USING	*, R5	base for test data and test routine
00001C00	00001C30			1236+T22	DC	A(X22)	address of test routine
00001C04	0016			1237+	DC	H' 22'	test number
00001C06	00			1238+	DC	X' 00'	
00001C07	9F			1239+	DC	HL1' 159'	i4
00001C08	01			1240+	DC	HL1' 1'	m5
00001C09	01			1241+	DC	HL1' 1'	cc
00001C0A	0B			1242+	DC	HL1' 11'	cc failed mask
				1243+V2_22	DC	FD' - 9999999999999999' \	
00001C10	FFDC790D 903F0001			+			binary value for v2 packed decimal
00001C18	FFFFFFFF FFFFFFFF			1244+V3_22	DC	FD' - 1'	binary value for v3 packed decimal
00001C20	E5E2D740 40404040			1245+	DC	CL8' VSP'	instruction name
00001C28	00000010			1246+	DC	A(16)	result length
00001C2C	00001C6C			1247+REA22	DC	A(RE22)	result address
				1248+*			INSTRUCTION UNDER TEST ROUTINE
00001C30				1249+X22	DS	0F	
00001C30	E320 5010 0004		00001C10	1250+	LG	R2, V2_22	convert v2
00001C36	E320 8F4F 002E		0000114F	1251+	CVDG	R2, V2PACKED	
00001C3C	E720 8F4F 0006		0000114F	1252+	VL	V2, V2PACKED	
00001C42	E320 5018 0004		00001C18	1253+	LG	R2, V3_22	convert v3
00001C48	E320 8F5F 002E		0000115F	1254+	CVDG	R2, V3PACKED	
00001C4E	E730 8F5F 0006		0000115F	1255+	VL	V3, V3PACKED	
00001C54	E612 3019 F073			1256+	VSP	V1, V2, V3, 159, 1	test instruction
00001C5A	E710 8F00 000E		00001100	1257+	VST	V1, V10UTPUT	save result
00001C60	B98D 0020			1258+	EPSW	R2, R0	exptract psw
00001C64	5020 8EE4		000010E4	1259+	ST	R2, CCPSW	to save CC
00001C68	07FB			1260+	BR	R11	return
00001C6C				1261+RE22	DC	0F	
00001C6C				1262+	DROP	R5	
00001C6C	00000000 00000009			1263	DC	XL16' 0000000000000000999999999999998D'	
00001C74	99999999 9999998D						
				1264			
				1265	VRI_F	VSP, - 9999999999999999, - 1, 135, 1, 3 i4=135(iom=1 & rdc=7)	
00001C80				1266+	DS	0FD	
00001C80		00001C80		1267+	USING	*, R5	base for test data and test routine
00001C80	00001CB0			1268+T23	DC	A(X23)	address of test routine
00001C84	0017			1269+	DC	H' 23'	test number
00001C86	00			1270+	DC	X' 00'	
00001C87	87			1271+	DC	HL1' 135'	i4
00001C88	01			1272+	DC	HL1' 1'	m5
00001C89	03			1273+	DC	HL1' 3'	cc
00001C8A	0E			1274+	DC	HL1' 14'	cc failed mask
				1275+V2_23	DC	FD' - 9999999999999999' \	
00001C90	FFDC790D 903F0001			+			binary value for v2 packed decimal
00001C98	FFFFFFFF FFFFFFFF			1276+V3_23	DC	FD' - 1'	binary value for v3 packed decimal
00001CA0	E5E2D740 40404040			1277+	DC	CL8' VSP'	instruction name



LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00001CA8	00000010			1278+	DC	A(16)	result length
00001CAC	00001CEC			1279+REA23	DC	A(RE23)	result address
				1280+*			INSTRUCTION UNDER TEST ROUTINE
00001CB0				1281+X23	DS	0F	
00001CB0	E320 5010 0004		00001C90	1282+	LG	R2, V2_23	convert v2
00001CB6	E320 8F4F 002E		0000114F	1283+	CVDG	R2, V2PACKED	
00001CBC	E720 8F4F 0006		0000114F	1284+	VL	V2, V2PACKED	
00001CC2	E320 5018 0004		00001C98	1285+	LG	R2, V3_23	convert v3
00001CC8	E320 8F5F 002E		0000115F	1286+	CVDG	R2, V3PACKED	
00001CCE	E730 8F5F 0006		0000115F	1287+	VL	V3, V3PACKED	
00001CD4	E612 3018 7073			1288+	VSP	V1, V2, V3, 135, 1	test instruction
00001CDA	E710 8F00 000E		00001100	1289+	VST	V1, V10OUTPUT	save result
00001CE0	B98D 0020			1290+	EPSW	R2, R0	exptract psw
00001CE4	5020 8EE4		000010E4	1291+	ST	R2, CCPSW	to save CC
00001CE8	07FB			1292+	BR	R11	return
00001CEC				1293+RE23	DC	0F	
00001CEC				1294+	DROP	R5	
00001CEC	00000000 00000000			1295	DC	XL16' 00000000000000000000000009999998D'	
00001CF4	00000000 9999998D						
				1296			
				1297 * VSP larger #'s , i4=159(iom=1 & rdc=31)			CS=1 for all m5
				1298 * check forced positive			
				1299 VRI_F VSP, - 9999999999999999, +1, 159, 9, 2			m5=9(P2=1)
00001D00				1300+	DS	0FD	
00001D00		00001D00		1301+	USING	*, R5	base for test data and test routine
00001D00	00001D30			1302+T24	DC	A(X24)	address of test routine
00001D04	0018			1303+	DC	H' 24'	test number
00001D06	00			1304+	DC	X' 00'	
00001D07	9F			1305+	DC	HL1' 159'	i4
00001D08	09			1306+	DC	HL1' 9'	m5
00001D09	02			1307+	DC	HL1' 2'	cc
00001D0A	0D			1308+	DC	HL1' 13'	cc failed mask
				1309+V2_24	DC	FD' - 9999999999999999' \	
00001D10	FE9CBA87 A2760001			+			binary value for v2 packed decimal
00001D18	00000000 00000001			1310+V3_24	DC	FD' +1'	binary value for v3 packed decimal
00001D20	E5E2D740 40404040			1311+	DC	CL8' VSP'	instruction name
00001D28	00000010			1312+	DC	A(16)	result length
00001D2C	00001D6C			1313+REA24	DC	A(RE24)	result address
				1314+*			INSTRUCTION UNDER TEST ROUTINE
00001D30				1315+X24	DS	0F	
00001D30	E320 5010 0004		00001D10	1316+	LG	R2, V2_24	convert v2
00001D36	E320 8F4F 002E		0000114F	1317+	CVDG	R2, V2PACKED	
00001D3C	E720 8F4F 0006		0000114F	1318+	VL	V2, V2PACKED	
00001D42	E320 5018 0004		00001D18	1319+	LG	R2, V3_24	convert v3
00001D48	E320 8F5F 002E		0000115F	1320+	CVDG	R2, V3PACKED	
00001D4E	E730 8F5F 0006		0000115F	1321+	VL	V3, V3PACKED	
00001D54	E612 3099 F073			1322+	VSP	V1, V2, V3, 159, 9	test instruction
00001D5A	E710 8F00 000E		00001100	1323+	VST	V1, V10OUTPUT	save result
00001D60	B98D 0020			1324+	EPSW	R2, R0	exptract psw
00001D64	5020 8EE4		000010E4	1325+	ST	R2, CCPSW	to save CC
00001D68	07FB			1326+	BR	R11	return
00001D6C				1327+RE24	DC	0F	
00001D6C				1328+	DROP	R5	
00001D6C	00000000 00000099			1329	DC	XL16' 00000000000000000999999999999998C'	
00001D74	99999999 9999998C						
				1330			

LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
00001D80				1331	VRI_F VSP, - 9999999999999999, - 1000000000000000, 159, 13, 2	
00001D80		00001D80		1332+	DS OFD	
00001D80	00001DB0			1333+	USING *, R5	base for test data and test routine
00001D84	0019			1334+T25	DC A(X25)	address of test routine
00001D86	00			1335+	DC H' 25'	test number
00001D87	9F			1336+	DC X' 00'	
00001D88	0D			1337+	DC HL1' 159'	i4
00001D89	02			1338+	DC HL1' 13'	m5
00001D8A	0D			1339+	DC HL1' 2'	cc
				1340+	DC HL1' 13'	cc failed mask
00001D90	FE9CBA87 A2760001			1341+V2_25	DC FD' - 9999999999999999' \	
				+		binary value for v2 packed decimal
00001D98	FFDC790D 903F0000			1342+V3_25	DC FD' - 100000000000000000' \	
00001DA0	E5E2D740 40404040			+		binary value for v3 packed decimal
00001DA8	00000010			1343+	DC CL8' VSP'	instruction name
00001DAC	00001DEC			1344+	DC A(16)	result length
				1345+REA25	DC A(RE25)	result address
				1346+*		INSTRUCTION UNDER TEST ROUTINE
00001DB0				1347+X25	DS OF	
00001DB0	E320 5010 0004		00001D90	1348+	LG R2, V2_25	convert v2
00001DB6	E320 8F4F 002E		0000114F	1349+	CVDG R2, V2PACKED	
00001DBC	E720 8F4F 0006		0000114F	1350+	VL V2, V2PACKED	
00001DC2	E320 5018 0004		00001D98	1351+	LG R2, V3_25	convert v3
00001DC8	E320 8F5F 002E		0000115F	1352+	CVDG R2, V3PACKED	
00001DCE	E730 8F5F 0006		0000115F	1353+	VL V3, V3PACKED	
00001DD4	E612 30D9 F073			1354+	VSP V1, V2, V3, 159, 13	test instruction
00001DDA	E710 8F00 000E		00001100	1355+	VST V1, V10UTPUT	save result
00001DE0	B98D 0020			1356+	EPSW R2, R0	exptract psw
00001DE4	5020 8EE4		000010E4	1357+	ST R2, CCPSW	to save CC
00001DE8	07FB			1358+	BR R11	return
00001DEC				1359+RE25	DC OF	
00001DEC				1360+	DROP R5	
00001DEC	00000000 00000089			1361	DC XL16' 00000000000000008999999999999999C' m5=13(P2=1, P3=1)	
00001DF4	99999999 9999999C					
				1362		
00001E00				1363	VRI_F VSP, - 9999999999999999, - 1, 159, 3, 2	m5=3(P1=1)
00001E00		00001E00		1364+	DS OFD	
00001E00	00001E30			1365+	USING *, R5	base for test data and test routine
00001E04	001A			1366+T26	DC A(X26)	address of test routine
00001E06	00			1367+	DC H' 26'	test number
00001E07	9F			1368+	DC X' 00'	
00001E08	03			1369+	DC HL1' 159'	i4
00001E09	02			1370+	DC HL1' 3'	m5
00001E0A	0D			1371+	DC HL1' 2'	cc
				1372+	DC HL1' 13'	cc failed mask
00001E10	FFDC790D 903F0001			1373+V2_26	DC FD' - 9999999999999999' \	
00001E18	FFFFFFFF FFFFFFFF			+		binary value for v2 packed decimal
00001E20	E5E2D740 40404040			1374+V3_26	DC FD' - 1'	binary value for v3 packed decimal
00001E28	00000010			1375+	DC CL8' VSP'	instruction name
00001E2C	00001E6C			1376+	DC A(16)	result length
				1377+REA26	DC A(RE26)	result address
				1378+*		INSTRUCTION UNDER TEST ROUTINE
00001E30				1379+X26	DS OF	
00001E30	E320 5010 0004		00001E10	1380+	LG R2, V2_26	convert v2
00001E36	E320 8F4F 002E		0000114F	1381+	CVDG R2, V2PACKED	
00001E3C	E720 8F4F 0006		0000114F	1382+	VL V2, V2PACKED	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00001E42	E320 5018 0004		00001E18	1383+	LG	R2, V3_26	convert v3
00001E48	E320 8F5F 002E		0000115F	1384+	CVDG	R2, V3PACKED	
00001E4E	E730 8F5F 0006		0000115F	1385+	VL	V3, V3PACKED	
00001E54	E612 3039 F073			1386+	VSP	V1, V2, V3, 159, 3	test instruction
00001E5A	E710 8F00 000E		00001100	1387+	VST	V1, V10UTPUT	save result
00001E60	B98D 0020			1388+	EPSW	R2, R0	exptract psw
00001E64	5020 8EE4		000010E4	1389+	ST	R2, CCPSW	to save CC
00001E68	07FB			1390+	BR	R11	return
00001E6C				1391+RE26	DC	0F	
00001E6C				1392+	DROP	R5	
00001E6C	00000000 00000009			1393	DC	XL16' 0000000000000000099999999999998F'	
00001E74	99999999 9999998F						
				1394			
				1395	VRI_F	VSP, - 9999999999999999, - 1, 135, 3, 3	i4=135(iom=1 & rdc=7)
00001E80				1396+	DS	0FD	
00001E80		00001E80		1397+	USING	*, R5	base for test data and test routine
00001E80	00001EB0			1398+T27	DC	A(X27)	address of test routine
00001E84	001B			1399+	DC	H' 27'	test number
00001E86	00			1400+	DC	X' 00'	
00001E87	87			1401+	DC	HL1' 135'	i4
00001E88	03			1402+	DC	HL1' 3'	m5
00001E89	03			1403+	DC	HL1' 3'	cc
00001E8A	0E			1404+	DC	HL1' 14'	cc failed mask
				1405+V2_27	DC	FD' - 9999999999999999' \	
00001E90	FFDC790D 903F0001			+			binary value for v2 packed decimal
00001E98	FFFFFFFF FFFFFFFF			1406+V3_27	DC	FD' - 1'	binary value for v3 packed decimal
00001EA0	E5E2D740 40404040			1407+	DC	CL8' VSP'	instruction name
00001EA8	00000010			1408+	DC	A(16)	result length
00001EAC	00001EEC			1409+REA27	DC	A(RE27)	result address
				1410+*			INSTRUCTION UNDER TEST ROUTINE
00001EB0				1411+X27	DS	0F	
00001EB0	E320 5010 0004		00001E90	1412+	LG	R2, V2_27	convert v2
00001EB6	E320 8F4F 002E		0000114F	1413+	CVDG	R2, V2PACKED	
00001EBC	E720 8F4F 0006		0000114F	1414+	VL	V2, V2PACKED	
00001EC2	E320 5018 0004		00001E98	1415+	LG	R2, V3_27	convert v3
00001EC8	E320 8F5F 002E		0000115F	1416+	CVDG	R2, V3PACKED	
00001ECE	E730 8F5F 0006		0000115F	1417+	VL	V3, V3PACKED	
00001ED4	E612 3038 7073			1418+	VSP	V1, V2, V3, 135, 3	test instruction
00001EDA	E710 8F00 000E		00001100	1419+	VST	V1, V10UTPUT	save result
00001EE0	B98D 0020			1420+	EPSW	R2, R0	exptract psw
00001EE4	5020 8EE4		000010E4	1421+	ST	R2, CCPSW	to save CC
00001EE8	07FB			1422+	BR	R11	return
00001EEC				1423+RE27	DC	0F	
00001EEC				1424+	DROP	R5	
00001EEC	00000000 00000000			1425	DC	XL16' 000000000000000000000009999998F'	m5=3(P1=1)
00001EF4	00000000 9999998F						
				1426			
				1427 *-----			
				1428 * VMP - VECTOR MULTIPLY DECIMAL			
				1429 *-----			
				1430 * VMP simple + CC checks			
00001F00				1431	VRI_F	VMP, +10, +12, 7, 1, 2	
00001F00		00001F00		1432+	DS	0FD	
00001F00	00001F30			1433+	USING	*, R5	base for test data and test routine
00001F00	001C			1434+T28	DC	A(X28)	address of test routine
00001F04				1435+	DC	H' 28'	test number







LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
000020B6	E320 8F4F 002E		0000114F	1545+	CVDG	R2, V2PACKED
000020BC	E720 8F4F 0006		0000114F	1546+	VL	V2, V2PACKED
000020C2	E320 5018 0004		00002098	1547+	LG	R2, V3_31
000020C8	E320 8F5F 002E		0000115F	1548+	CVDG	R2, V3PACKED
000020CE	E730 8F5F 0006		0000115F	1549+	VL	V3, V3PACKED
000020D4	E612 3010 7078			1550+	VMP	V1, V2, V3, 7, 1
000020DA	E710 8F00 000E		00001100	1551+	VST	V1, V10OUTPUT
000020E0	B98D 0020			1552+	EPSW	R2, R0
000020E4	5020 8EE4		000010E4	1553+	ST	R2, CCPSW
000020E8	07FB			1554+	BR	R11
000020EC				1555+RE31	DC	0F
000020EC				1556+	DROP	R5
000020EC	00000000 00000000			1557	DC	XL16' 00000000000000000000000000000000120D'
000020F4	00000000 0000120D					
				1558		
				1559	VRI_F	VMP, - 10, - 12, 7, 1, 2
00002100				1560+	DS	0FD
00002100		00002100		1561+	USING	*, R5
00002100	00002130			1562+T32	DC	A(X32)
00002104	0020			1563+	DC	H' 32'
00002106	00			1564+	DC	X' 00'
00002107	07			1565+	DC	HL1' 7'
00002108	01			1566+	DC	HL1' 1'
00002109	02			1567+	DC	HL1' 2'
0000210A	0D			1568+	DC	HL1' 13'
00002110	FFFFFFFF FFFFFFFF6			1569+V2_32	DC	FD' - 10'
00002118	FFFFFFFF FFFFFFFF4			1570+V3_32	DC	FD' - 12'
00002120	E5D4D740 40404040			1571+	DC	CL8' VMP'
00002128	00000010			1572+	DC	A(16)
0000212C	0000216C			1573+REA32	DC	A(RE32)
				1574+*		INSTRUCTION UNDER TEST ROUTINE
00002130				1575+X32	DS	0F
00002130	E320 5010 0004		00002110	1576+	LG	R2, V2_32
00002136	E320 8F4F 002E		0000114F	1577+	CVDG	R2, V2PACKED
0000213C	E720 8F4F 0006		0000114F	1578+	VL	V2, V2PACKED
00002142	E320 5018 0004		00002118	1579+	LG	R2, V3_32
00002148	E320 8F5F 002E		0000115F	1580+	CVDG	R2, V3PACKED
0000214E	E730 8F5F 0006		0000115F	1581+	VL	V3, V3PACKED
00002154	E612 3010 7078			1582+	VMP	V1, V2, V3, 7, 1
0000215A	E710 8F00 000E		00001100	1583+	VST	V1, V10OUTPUT
00002160	B98D 0020			1584+	EPSW	R2, R0
00002164	5020 8EE4		000010E4	1585+	ST	R2, CCPSW
00002168	07FB			1586+	BR	R11
0000216C				1587+RE32	DC	0F
0000216C				1588+	DROP	R5
0000216C	00000000 00000000			1589	DC	XL16' 00000000000000000000000000000000120C'
00002174	00000000 0000120C					
				1590		
				1591	VRI_F	VMP, - 10, - 10, 7, 1, 2
00002180				1592+	DS	0FD
00002180		00002180		1593+	USING	*, R5
00002180	000021B0			1594+T33	DC	A(X33)
00002184	0021			1595+	DC	H' 33'
00002186	00			1596+	DC	X' 00'
00002187	07			1597+	DC	HL1' 7'
00002188	01			1598+	DC	HL1' 1'





LOC	OBJECT CODE	ADDR1	ADDR2	STMT	
00002274	00000000 0000100C			1654	
				1655 * VMP larger #'s , i4=159(iom=1 & rdc=31)	
00002280				1656 VRI_F VMP, +9999999999999999, +1, 159, 1, 2	
00002280		00002280		1657+ DS OFD	
00002280	000022B0			1658+ USING *, R5	base for test data and test routine
00002284	0023			1659+T35 DC A(X35)	address of test routine
00002286	00			1660+ DC H' 35'	test number
00002287	9F			1661+ DC X' 00'	
00002288	01			1662+ DC HL1' 159'	i4
00002288	01			1663+ DC HL1' 1'	m5
00002289	02			1664+ DC HL1' 2'	cc
0000228A	0D			1665+ DC HL1' 13'	cc failed mask
				1666+V2_35 DC FD' +9999999999999999' \	
00002290	01634578 5D89FFFF			+	binary value for v2 packed decimal
00002298	00000000 00000001			1667+V3_35 DC FD' +1'	binary value for v3 packed decimal
000022A0	E5D4D740 40404040			1668+ DC CL8' VMP'	instruction name
000022A8	00000010			1669+ DC A(16)	result length
000022AC	000022EC			1670+REA35 DC A(RE35)	result address
				1671+*	INSTRUCTION UNDER TEST ROUTINE
000022B0				1672+X35 DS OF	
000022B0	E320 5010 0004	00002290		1673+ LG R2, V2_35	convert v2
000022B6	E320 8F4F 002E	0000114F		1674+ CVDG R2, V2PACKED	
000022BC	E720 8F4F 0006	0000114F		1675+ VL V2, V2PACKED	
000022C2	E320 5018 0004	00002298		1676+ LG R2, V3_35	convert v3
000022C8	E320 8F5F 002E	0000115F		1677+ CVDG R2, V3PACKED	
000022CE	E730 8F5F 0006	0000115F		1678+ VL V3, V3PACKED	
000022D4	E612 3019 F078			1679+ VMP V1, V2, V3, 159, 1	test instruction
000022DA	E710 8F00 000E	00001100		1680+ VST V1, V10UTPUT	save result
000022E0	B98D 0020			1681+ EPSW R2, R0	exptract psw
000022E4	5020 8EE4	000010E4		1682+ ST R2, CCPSW	to save CC
000022E8	07FB			1683+ BR R11	return
000022EC				1684+RE35 DC OF	
000022EC				1685+ DROP R5	
000022EC	00000000 00000099			1686 DC XL16' 00000000000000009999999999999999C'	
000022F4	99999999 9999999C				
				1687	
				1688 VRI_F VMP, +9999999999999999, +1000000000000000, 159, 1, 3	
00002300				1689+ DS OFD	
00002300		00002300		1690+ USING *, R5	base for test data and test routine
00002300	00002330			1691+T36 DC A(X36)	address of test routine
00002304	0024			1692+ DC H' 36'	test number
00002306	00			1693+ DC X' 00'	
00002307	9F			1694+ DC HL1' 159'	i4
00002308	01			1695+ DC HL1' 1'	m5
00002309	03			1696+ DC HL1' 3'	cc
0000230A	0E			1697+ DC HL1' 14'	cc failed mask
				1698+V2_36 DC FD' +9999999999999999' \	
00002310	01634578 5D89FFFF			+	binary value for v2 packed decimal
				1699+V3_36 DC FD' +1000000000000000' \	
				+	binary value for v3 packed decimal
00002318	002386F2 6FC10000			1700+ DC CL8' VMP'	instruction name
00002320	E5D4D740 40404040			1701+ DC A(16)	result length
00002328	00000010			1702+REA36 DC A(RE36)	result address
0000232C	0000236C			1703+*	INSTRUCTION UNDER TEST ROUTINE
00002330				1704+X36 DS OF	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00002330	E320 5010 0004		00002310	1705+	LG	R2, V2_36	convert v2
00002336	E320 8F4F 002E		0000114F	1706+	CVDG	R2, V2PACKED	
0000233C	E720 8F4F 0006		0000114F	1707+	VL	V2, V2PACKED	
00002342	E320 5018 0004		00002318	1708+	LG	R2, V3_36	convert v3
00002348	E320 8F5F 002E		0000115F	1709+	CVDG	R2, V3PACKED	
0000234E	E730 8F5F 0006		0000115F	1710+	VL	V3, V3PACKED	
00002354	E612 3019 F078			1711+	VMP	V1, V2, V3, 159, 1	test instruction
0000235A	E710 8F00 000E		00001100	1712+	VST	V1, V10OUTPUT	save result
00002360	B98D 0020			1713+	EPSW	R2, R0	exptract psw
00002364	5020 8EE4		000010E4	1714+	ST	R2, CCPSW	to save CC
00002368	07FB			1715+	BR	R11	return
0000236C				1716+RE36	DC	0F	
0000236C				1717+	DROP	R5	
0000236C	99999999 99999990			1718	DC	XL16' 99999999999999990000000000000000C'	overflowed
00002374	00000000 0000000C						
				1719			
				1720	VRI_F	VMP, - 9999999999999999, - 1, 159, 1, 2	
00002380				1721+	DS	0FD	
00002380		00002380		1722+	USING	*, R5	base for test data and test routine
00002380	000023B0			1723+T37	DC	A(X37)	address of test routine
00002384	0025			1724+	DC	H' 37'	test number
00002386	00			1725+	DC	X' 00'	
00002387	9F			1726+	DC	HL1' 159'	i4
00002388	01			1727+	DC	HL1' 1'	m5
00002389	02			1728+	DC	HL1' 2'	cc
0000238A	0D			1729+	DC	HL1' 13'	cc failed mask
				1730+V2_37	DC	FD' - 9999999999999999' \	
00002390	FFDC790D 903F0001			+			binary value for v2 packed decimal
00002398	FFFFFFFF FFFFFFFF			1731+V3_37	DC	FD' - 1'	binary value for v3 packed decimal
000023A0	E5D4D740 40404040			1732+	DC	CL8' VMP'	instruction name
000023A8	00000010			1733+	DC	A(16)	result length
000023AC	000023EC			1734+REA37	DC	A(RE37)	result address
				1735+*			INSTRUCTION UNDER TEST ROUTINE
000023B0				1736+X37	DS	0F	
000023B0	E320 5010 0004		00002390	1737+	LG	R2, V2_37	convert v2
000023B6	E320 8F4F 002E		0000114F	1738+	CVDG	R2, V2PACKED	
000023BC	E720 8F4F 0006		0000114F	1739+	VL	V2, V2PACKED	
000023C2	E320 5018 0004		00002398	1740+	LG	R2, V3_37	convert v3
000023C8	E320 8F5F 002E		0000115F	1741+	CVDG	R2, V3PACKED	
000023CE	E730 8F5F 0006		0000115F	1742+	VL	V3, V3PACKED	
000023D4	E612 3019 F078			1743+	VMP	V1, V2, V3, 159, 1	test instruction
000023DA	E710 8F00 000E		00001100	1744+	VST	V1, V10OUTPUT	save result
000023E0	B98D 0020			1745+	EPSW	R2, R0	exptract psw
000023E4	5020 8EE4		000010E4	1746+	ST	R2, CCPSW	to save CC
000023E8	07FB			1747+	BR	R11	return
000023EC				1748+RE37	DC	0F	
000023EC				1749+	DROP	R5	
000023EC	00000000 00000009			1750	DC	XL16' 0000000000000000999999999999999C'	
000023F4	99999999 9999999C						
				1751			
				1752	VRI_F	VMP, - 9999999999999999, - 1, 135, 1, 3	i4=135(iom=1 & rdc=7)
00002400				1753+	DS	0FD	
00002400		00002400		1754+	USING	*, R5	base for test data and test routine
00002400	00002430			1755+T38	DC	A(X38)	address of test routine
00002404	0026			1756+	DC	H' 38'	test number
00002406	00			1757+	DC	X' 00'	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00002407	87			1758+	DC	HL1' 135'	i4
00002408	01			1759+	DC	HL1' 1'	m5
00002409	03			1760+	DC	HL1' 3'	cc
0000240A	0E			1761+	DC	HL1' 14'	cc failed mask
				1762+V2_38	DC	FD' - 9999999999999999' \	
00002410	FFDC790D 903F0001			+			binary value for v2 packed decimal
00002418	FFFFFFFF FFFFFFFF			1763+V3_38	DC	FD' - 1'	binary value for v3 packed decimal
00002420	E5D4D740 40404040			1764+	DC	CL8' VMP'	instruction name
00002428	00000010			1765+	DC	A(16)	result length
0000242C	0000246C			1766+REA38	DC	A(RE38)	result address
				1767+*			INSTRUCTION UNDER TEST ROUTINE
00002430				1768+X38	DS	0F	
00002430	E320 5010 0004		00002410	1769+	LG	R2, V2_38	convert v2
00002436	E320 8F4F 002E		0000114F	1770+	CVDG	R2, V2PACKED	
0000243C	E720 8F4F 0006		0000114F	1771+	VL	V2, V2PACKED	
00002442	E320 5018 0004		00002418	1772+	LG	R2, V3_38	convert v3
00002448	E320 8F5F 002E		0000115F	1773+	CVDG	R2, V3PACKED	
0000244E	E730 8F5F 0006		0000115F	1774+	VL	V3, V3PACKED	
00002454	E612 3018 7078			1775+	VMP	V1, V2, V3, 135, 1	test instruction
0000245A	E710 8F00 000E		00001100	1776+	VST	V1, V10OUTPUT	save result
00002460	B98D 0020			1777+	EPSW	R2, R0	exptract psw
00002464	5020 8EE4		000010E4	1778+	ST	R2, CCPSW	to save CC
00002468	07FB			1779+	BR	R11	return
0000246C				1780+RE38	DC	0F	
0000246C				1781+	DROP	R5	
0000246C	00000000 00000000			1782	DC	XL16' 00000000000000000000000009999999C'	overflow RDC
00002474	00000000 9999999C						
				1783			
				1784	VRI_F	VMP, +9999999999999999, +10000000000000, 159, 1, 2	
00002480				1785+	DS	0FD	
00002480		00002480		1786+	USING	*, R5	base for test data and test routine
00002480	000024B0			1787+T39	DC	A(X39)	address of test routine
00002484	0027			1788+	DC	H' 39'	test number
00002486	00			1789+	DC	X' 00'	
00002487	9F			1790+	DC	HL1' 159'	i4
00002488	01			1791+	DC	HL1' 1'	m5
00002489	02			1792+	DC	HL1' 2'	cc
0000248A	0D			1793+	DC	HL1' 13'	cc failed mask
				1794+V2_39	DC	FD' +9999999999999999' \	
00002490	00000918 4E729FFF			+			binary value for v2 packed decimal
				1795+V3_39	DC	FD' +100000000000000' \	
00002498	00000918 4E72A000			+			binary value for v3 packed decimal
000024A0	E5D4D740 40404040			1796+	DC	CL8' VMP'	instruction name
000024A8	00000010			1797+	DC	A(16)	result length
000024AC	000024EC			1798+REA39	DC	A(RE39)	result address
				1799+*			INSTRUCTION UNDER TEST ROUTINE
000024B0				1800+X39	DS	0F	
000024B0	E320 5010 0004		00002490	1801+	LG	R2, V2_39	convert v2
000024B6	E320 8F4F 002E		0000114F	1802+	CVDG	R2, V2PACKED	
000024BC	E720 8F4F 0006		0000114F	1803+	VL	V2, V2PACKED	
000024C2	E320 5018 0004		00002498	1804+	LG	R2, V3_39	convert v3
000024C8	E320 8F5F 002E		0000115F	1805+	CVDG	R2, V3PACKED	
000024CE	E730 8F5F 0006		0000115F	1806+	VL	V3, V3PACKED	
000024D4	E612 3019 F078			1807+	VMP	V1, V2, V3, 159, 1	test instruction
000024DA	E710 8F00 000E		00001100	1808+	VST	V1, V10OUTPUT	save result
000024E0	B98D 0020			1809+	EPSW	R2, R0	exptract psw

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
000024E4	5020 8EE4		000010E4	1810+	ST	R2, CCPSW	to save CC
000024E8	07FB			1811+	BR	R11	return
000024EC				1812+RE39	DC	0F	
000024EC				1813+	DROP	R5	
000024EC	00000999 99999999			1814	DC	XL16' 0000099999999999999900000000000000C'	
000024F4	99000000 0000000C						
				1815			
				1816 *	VMP	larger #'s , i4=159(iom=1 & rdc=31)	CS=1 for all m5
				1817 *	check	forced positive	
				1818	VRI_F	VMP, - 9999999999999999, +1, 159, 9, 2	m5=9(P2=1)
00002500				1819+	DS	0FD	
00002500		00002500		1820+	USING	*, R5	base for test data and test routine
00002500	00002530			1821+T40	DC	A(X40)	address of test routine
00002504	0028			1822+	DC	H' 40'	test number
00002506	00			1823+	DC	X' 00'	
00002507	9F			1824+	DC	HL1' 159'	i4
00002508	09			1825+	DC	HL1' 9'	m5
00002509	02			1826+	DC	HL1' 2'	cc
0000250A	0D			1827+	DC	HL1' 13'	cc failed mask
				1828+V2_40	DC	FD' - 9999999999999999' \	
00002510	FE9CBA87 A2760001			+			binary value for v2 packed decimal
00002518	00000000 00000001			1829+V3_40	DC	FD' +1'	binary value for v3 packed decimal
00002520	E5D4D740 40404040			1830+	DC	CL8' VMP'	instruction name
00002528	00000010			1831+	DC	A(16)	result length
0000252C	0000256C			1832+REA40	DC	A(RE40)	result address
				1833+*			INSTRUCTION UNDER TEST ROUTINE
00002530				1834+X40	DS	0F	
00002530	E320 5010 0004		00002510	1835+	LG	R2, V2_40	convert v2
00002536	E320 8F4F 002E		0000114F	1836+	CVDG	R2, V2PACKED	
0000253C	E720 8F4F 0006		0000114F	1837+	VL	V2, V2PACKED	
00002542	E320 5018 0004		00002518	1838+	LG	R2, V3_40	convert v3
00002548	E320 8F5F 002E		0000115F	1839+	CVDG	R2, V3PACKED	
0000254E	E730 8F5F 0006		0000115F	1840+	VL	V3, V3PACKED	
00002554	E612 3099 F078			1841+	VMP	V1, V2, V3, 159, 9	test instruction
0000255A	E710 8F00 000E		00001100	1842+	VST	V1, V10UTPUT	save result
00002560	B98D 0020			1843+	EPSW	R2, R0	exptract psw
00002564	5020 8EE4		000010E4	1844+	ST	R2, CCPSW	to save CC
00002568	07FB			1845+	BR	R11	return
0000256C				1846+RE40	DC	0F	
0000256C				1847+	DROP	R5	
0000256C	00000000 00000099			1848	DC	XL16' 00000000000000099999999999999999C'	
00002574	99999999 9999999C						
				1849			
				1850 *			m5=13(P2=1, P3=1)
				1851	VRI_F	VMP, - 9999999999999999, - 1000000000000000, 159, 13, 3	
00002580				1852+	DS	0FD	
00002580		00002580		1853+	USING	*, R5	base for test data and test routine
00002580	000025B0			1854+T41	DC	A(X41)	address of test routine
00002584	0029			1855+	DC	H' 41'	test number
00002586	00			1856+	DC	X' 00'	
00002587	9F			1857+	DC	HL1' 159'	i4
00002588	0D			1858+	DC	HL1' 13'	m5
00002589	03			1859+	DC	HL1' 3'	cc
0000258A	0E			1860+	DC	HL1' 14'	cc failed mask
				1861+V2_41	DC	FD' - 9999999999999999' \	
00002590	FE9CBA87 A2760001			+			binary value for v2 packed decimal



LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
00002598	FFDC790D 903F0000			1862+V3_41	DC	FD' - 10000000000000000' \
000025A0	E5D4D740 40404040			+		binary value for v3 packed decimal
000025A8	00000010			1863+	DC	CL8' VMP'
000025AC	000025EC			1864+	DC	A(16)
				1865+REA41	DC	A(RE41)
				1866+*		result length
				1867+X41		result address
000025B0				1868+	DS	0F
000025B0	E320 5010 0004		00002590	1869+	LG	R2, V2_41
000025B6	E320 8F4F 002E		0000114F	1870+	CVDG	R2, V2PACKED
000025BC	E720 8F4F 0006		0000114F	1871+	VL	V2, V2PACKED
000025C2	E320 5018 0004		00002598	1872+	LG	R2, V3_41
000025C8	E320 8F5F 002E		0000115F	1873+	CVDG	R2, V3PACKED
000025CE	E730 8F5F 0006		0000115F	1874+	VL	V3, V3PACKED
000025D4	E612 30D9 F078			1875+	VMP	V1, V2, V3, 159, 13
000025DA	E710 8F00 000E		00001100	1876+	VST	V1, V10UTPUT
000025E0	B98D 0020			1877+	EPSW	R2, R0
000025E4	5020 8EE4		000010E4	1878+	ST	R2, CCPSW
000025E8	07FB			1879+RE41	BR	R11
000025EC				1880+	DC	0F
000025EC				1881	DROP	R5
000025EC	99999999 99999990				DC	XL16' 99999999999999990000000000000000C'
000025F4	00000000 0000000C					overflowed
				1882		
00002600				1883	VRI_F	VMP, - 9999999999999999, - 1, 159, 3, 2
00002600		00002600		1884+	DS	0FD
00002600	00002630			1885+	USING	*, R5
00002604	002A			1886+T42	DC	A(X42)
00002606	00			1887+	DC	H' 42'
00002607	9F			1888+	DC	X' 00'
00002608	03			1889+	DC	HL1' 159'
00002609	02			1890+	DC	HL1' 3'
0000260A	0D			1891+	DC	HL1' 2'
				1892+	DC	HL1' 13'
				1893+V2_42	DC	FD' - 9999999999999999' \
00002610	FFDC790D 903F0001			+		binary value for v2 packed decimal
00002618	FFFFFFFF FFFFFFFF			1894+V3_42	DC	FD' - 1'
00002620	E5D4D740 40404040			1895+	DC	CL8' VMP'
00002628	00000010			1896+	DC	A(16)
0000262C	0000266C			1897+REA42	DC	A(RE42)
				1898+*		result length
				1899+X42		result address
00002630				1900+	DS	0F
00002630	E320 5010 0004		00002610	1901+	LG	R2, V2_42
00002636	E320 8F4F 002E		0000114F	1902+	CVDG	R2, V2PACKED
0000263C	E720 8F4F 0006		0000114F	1903+	VL	V2, V2PACKED
00002642	E320 5018 0004		00002618	1904+	LG	R2, V3_42
00002648	E320 8F5F 002E		0000115F	1905+	CVDG	R2, V3PACKED
0000264E	E730 8F5F 0006		0000115F	1906+	VL	V3, V3PACKED
00002654	E612 3039 F078			1907+	VMP	V1, V2, V3, 159, 3
0000265A	E710 8F00 000E		00001100	1908+	VST	V1, V10UTPUT
00002660	B98D 0020			1909+	EPSW	R2, R0
00002664	5020 8EE4		000010E4	1910+	ST	R2, CCPSW
00002668	07FB			1911+RE42	BR	R11
0000266C				1912+	DC	0F
0000266C				1913	DROP	R5
0000266C	00000000 00000009				DC	XL16' 0000000000000000999999999999999F'
00002674	99999999 9999999F					

LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
				1914		
				1915	VRI_F VMP, - 9999999999999999, - 1, 135, 13, 3	i4=135(iom=1 & rdc=7)
00002680				1916+	DS	OFD
00002680		00002680		1917+	USING	*, R5
00002680	000026B0			1918+T43	DC	A(X43)
00002684	002B			1919+	DC	H' 43'
00002686	00			1920+	DC	X' 00'
00002687	87			1921+	DC	HL1' 135'
00002688	0D			1922+	DC	HL1' 13'
00002689	03			1923+	DC	HL1' 3'
0000268A	0E			1924+	DC	HL1' 14'
				1925+V2_43	DC	FD' - 9999999999999999' \
00002690	FFDC790D 903F0001			+		binary value for v2 packed decimal
00002698	FFFFFFFF FFFFFFFF			1926+V3_43	DC	FD' - 1'
000026A0	E5D4D740 40404040			1927+	DC	CL8' VMP'
000026A8	00000010			1928+	DC	A(16)
000026AC	000026EC			1929+REA43	DC	A(RE43)
				1930+*		INSTRUCTION UNDER TEST ROUTINE
000026B0				1931+X43	DS	OF
000026B0	E320 5010 0004		00002690	1932+	LG	R2, V2_43
000026B6	E320 8F4F 002E		0000114F	1933+	CVDG	R2, V2PACKED
000026BC	E720 8F4F 0006		0000114F	1934+	VL	V2, V2PACKED
000026C2	E320 5018 0004		00002698	1935+	LG	R2, V3_43
000026C8	E320 8F5F 002E		0000115F	1936+	CVDG	R2, V3PACKED
000026CE	E730 8F5F 0006		0000115F	1937+	VL	V3, V3PACKED
000026D4	E612 30D8 7078			1938+	VMP	V1, V2, V3, 135, 13
000026DA	E710 8F00 000E		00001100	1939+	VST	V1, V10UTPUT
000026E0	B98D 0020			1940+	EPSW	R2, R0
000026E4	5020 8EE4		000010E4	1941+	ST	R2, CCPSW
000026E8	07FB			1942+	BR	R11
000026EC				1943+RE43	DC	OF
000026EC				1944+	DROP	R5
				1945 *		m5=13(P2=1, P3=1)
000026EC	00000000 00000000			1946	DC	XL16' 00000000000000000000000009999999C'
000026F4	00000000 9999999C					overflow RDC
				1947		
				1948	VRI_F VMP, +99999999999999, +10000000000000, 159, 3, 2	m5=3(P1=1)
00002700				1949+	DS	OFD
00002700		00002700		1950+	USING	*, R5
00002700	00002730			1951+T44	DC	A(X44)
00002704	002C			1952+	DC	H' 44'
00002706	00			1953+	DC	X' 00'
00002707	9F			1954+	DC	HL1' 159'
00002708	03			1955+	DC	HL1' 3'
00002709	02			1956+	DC	HL1' 2'
0000270A	0D			1957+	DC	HL1' 13'
				1958+V2_44	DC	FD' +99999999999999' \
00002710	00000918 4E729FFF			+		binary value for v2 packed decimal
				1959+V3_44	DC	FD' +10000000000000' \
00002718	00000918 4E72A000			+		binary value for v3 packed decimal
00002720	E5D4D740 40404040			1960+	DC	CL8' VMP'
00002728	00000010			1961+	DC	A(16)
0000272C	0000276C			1962+REA44	DC	A(RE44)
				1963+*		INSTRUCTION UNDER TEST ROUTINE
00002730				1964+X44	DS	OF
00002730	E320 5010 0004		00002710	1965+	LG	R2, V2_44



LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00002736	E320 8F4F 002E		0000114F	1966+	CVDG	R2, V2PACKED	
0000273C	E720 8F4F 0006		0000114F	1967+	VL	V2, V2PACKED	
00002742	E320 5018 0004		00002718	1968+	LG	R2, V3_44	convert v3
00002748	E320 8F5F 002E		0000115F	1969+	CVDG	R2, V3PACKED	
0000274E	E730 8F5F 0006		0000115F	1970+	VL	V3, V3PACKED	
00002754	E612 3039 F078			1971+	VMP	V1, V2, V3, 159, 3	test instruction
0000275A	E710 8F00 000E		00001100	1972+	VST	V1, V10OUTPUT	save result
00002760	B98D 0020			1973+	EPSW	R2, R0	exptract psw
00002764	5020 8EE4		000010E4	1974+	ST	R2, CCPSW	to save CC
00002768	07FB			1975+	BR	R11	return
0000276C				1976+RE44	DC	0F	
0000276C				1977+	DROP	R5	
0000276C	00000999 99999999			1978	DC	XL16' 0000099999999999999900000000000000F'	
00002774	99000000 0000000F						
				1979			
				1980	*	-----	
				1981	*	VDP - VECTOR DIVIDE DECIMAL	
				1982	*	-----	
				1983	*	VDP simple + CC checks	
				1984	VRI_F	VDP, +10, +12, 7, 1, 0	
00002780				1985+	DS	0FD	
00002780		00002780		1986+	USING	*, R5	base for test data and test routine
00002780	000027B0			1987+T45	DC	A(X45)	address of test routine
00002784	002D			1988+	DC	H' 45'	test number
00002786	00			1989+	DC	X' 00'	
00002787	07			1990+	DC	HL1' 7'	i4
00002788	01			1991+	DC	HL1' 1'	m5
00002789	00			1992+	DC	HL1' 0'	cc
0000278A	07			1993+	DC	HL1' 7'	cc failed mask
00002790	00000000 0000000A			1994+V2_45	DC	FD' +10'	binary value for v2 packed decimal
00002798	00000000 0000000C			1995+V3_45	DC	FD' +12'	binary value for v3 packed decimal
000027A0	E5C4D740 40404040			1996+	DC	CL8' VDP'	instruction name
000027A8	00000010			1997+	DC	A(16)	result length
000027AC	000027EC			1998+REA45	DC	A(RE45)	result address
				1999+*			INSTRUCTION UNDER TEST ROUTINE
000027B0				2000+X45	DS	0F	
000027B0	E320 5010 0004		00002790	2001+	LG	R2, V2_45	convert v2
000027B6	E320 8F4F 002E		0000114F	2002+	CVDG	R2, V2PACKED	
000027BC	E720 8F4F 0006		0000114F	2003+	VL	V2, V2PACKED	
000027C2	E320 5018 0004		00002798	2004+	LG	R2, V3_45	convert v3
000027C8	E320 8F5F 002E		0000115F	2005+	CVDG	R2, V3PACKED	
000027CE	E730 8F5F 0006		0000115F	2006+	VL	V3, V3PACKED	
000027D4	E612 3010 707A			2007+	VDP	V1, V2, V3, 7, 1	test instruction
000027DA	E710 8F00 000E		00001100	2008+	VST	V1, V10OUTPUT	save result
000027E0	B98D 0020			2009+	EPSW	R2, R0	exptract psw
000027E4	5020 8EE4		000010E4	2010+	ST	R2, CCPSW	to save CC
000027E8	07FB			2011+	BR	R11	return
000027EC				2012+RE45	DC	0F	
000027EC				2013+	DROP	R5	
000027EC	00000000 00000000			2014	DC	XL16' 00000000000000000000000000000000C'	
000027F4	00000000 0000000C						
				2015			
				2016	VRI_F	VDP, - 100, +12, 7, 1, 1	
00002800				2017+	DS	0FD	
00002800		00002800		2018+	USING	*, R5	base for test data and test routine
00002800	00002830			2019+T46	DC	A(X46)	address of test routine

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	
00002804	002E				2020+	DC H' 46'
00002806	00				2021+	DC X' 00'
00002807	07				2022+	DC HL1' 7'
00002808	01				2023+	DC HL1' 1'
00002809	01				2024+	DC HL1' 1'
0000280A	0B				2025+	DC HL1' 11'
00002810	FFFFFFFF	FFFFFF9C			2026+V2_46	DC FD' - 100'
00002818	00000000	0000000C			2027+V3_46	DC FD' +12'
00002820	E5C4D740	40404040			2028+	DC CL8' VDP'
00002828	00000010				2029+	DC A(16)
0000282C	0000286C				2030+REA46	DC A(RE46)
					2031+*	
00002830					2032+X46	DS 0F
00002830	E320	5010	0004	00002810	2033+	LG R2, V2_46
00002836	E320	8F4F	002E	0000114F	2034+	CVDG R2, V2PACKED
0000283C	E720	8F4F	0006	0000114F	2035+	VL V2, V2PACKED
00002842	E320	5018	0004	00002818	2036+	LG R2, V3_46
00002848	E320	8F5F	002E	0000115F	2037+	CVDG R2, V3PACKED
0000284E	E730	8F5F	0006	0000115F	2038+	VL V3, V3PACKED
00002854	E612	3010	707A		2039+	VDP V1, V2, V3, 7, 1
0000285A	E710	8F00	000E	00001100	2040+	VST V1, V10OUTPUT
00002860	B98D	0020			2041+	EPSW R2, R0
00002864	5020	8EE4		000010E4	2042+	ST R2, CCPSW
00002868	07FB				2043+	BR R11
0000286C					2044+RE46	DC 0F
0000286C					2045+	DROP R5
0000286C	00000000	00000000			2046	DC XL16' 00000000000000000000000000000008D'
00002874	00000000	0000008D				
					2047	
					2048	VRI_F VDP, +100, - 12, 1, 1, 1
00002880					2049+	DS 0FD
00002880			00002880		2050+	USING *, R5
00002880	000028B0				2051+T47	DC A(X47)
00002884	002F				2052+	DC H' 47'
00002886	00				2053+	DC X' 00'
00002887	01				2054+	DC HL1' 1'
00002888	01				2055+	DC HL1' 1'
00002889	01				2056+	DC HL1' 1'
0000288A	0B				2057+	DC HL1' 11'
00002890	00000000	00000064			2058+V2_47	DC FD' +100'
00002898	FFFFFFFF	FFFFFFF4			2059+V3_47	DC FD' - 12'
000028A0	E5C4D740	40404040			2060+	DC CL8' VDP'
000028A8	00000010				2061+	DC A(16)
000028AC	000028EC				2062+REA47	DC A(RE47)
					2063+*	
000028B0					2064+X47	DS 0F
000028B0	E320	5010	0004	00002890	2065+	LG R2, V2_47
000028B6	E320	8F4F	002E	0000114F	2066+	CVDG R2, V2PACKED
000028BC	E720	8F4F	0006	0000114F	2067+	VL V2, V2PACKED
000028C2	E320	5018	0004	00002898	2068+	LG R2, V3_47
000028C8	E320	8F5F	002E	0000115F	2069+	CVDG R2, V3PACKED
000028CE	E730	8F5F	0006	0000115F	2070+	VL V3, V3PACKED
000028D4	E612	3010	107A		2071+	VDP V1, V2, V3, 1, 1
000028DA	E710	8F00	000E	00001100	2072+	VST V1, V10OUTPUT
000028E0	B98D	0020			2073+	EPSW R2, R0
000028E4	5020	8EE4		000010E4	2074+	ST R2, CCPSW

LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
000028E8	07FB			2075+	BR R11	return
000028EC				2076+RE47	DC 0F	
000028EC				2077+	DROP R5	
000028EC	00000000 00000000			2078	DC XL16'	000000000000000000000000000008D'
000028F4	00000000 0000008D					
				2079		
				2080	VRI_F VDP, +100, - 12, 7, 1, 1	
00002900				2081+	DS 0FD	
00002900		00002900		2082+	USING *, R5	base for test data and test routine
00002900	00002930			2083+T48	DC A(X48)	address of test routine
00002904	0030			2084+	DC H' 48'	test number
00002906	00			2085+	DC X' 00'	
00002907	07			2086+	DC HL1' 7'	i4
00002908	01			2087+	DC HL1' 1'	m5
00002909	01			2088+	DC HL1' 1'	cc
0000290A	0B			2089+	DC HL1' 11'	cc failed mask
00002910	00000000 00000064			2090+V2_48	DC FD' +100'	binary value for v2 packed decimal
00002918	FFFFFFFF FFFFFFFF4			2091+V3_48	DC FD' - 12'	binary value for v3 packed decimal
00002920	E5C4D740 40404040			2092+	DC CL8' VDP'	instruction name
00002928	00000010			2093+	DC A(16)	result length
0000292C	0000296C			2094+REA48	DC A(RE48)	result address
				2095+*		INSTRUCTION UNDER TEST ROUTINE
00002930				2096+X48	DS 0F	
00002930	E320 5010 0004		00002910	2097+	LG R2, V2_48	convert v2
00002936	E320 8F4F 002E		0000114F	2098+	CVDG R2, V2PACKED	
0000293C	E720 8F4F 0006		0000114F	2099+	VL V2, V2PACKED	
00002942	E320 5018 0004		00002918	2100+	LG R2, V3_48	convert v3
00002948	E320 8F5F 002E		0000115F	2101+	CVDG R2, V3PACKED	
0000294E	E730 8F5F 0006		0000115F	2102+	VL V3, V3PACKED	
00002954	E612 3010 707A			2103+	VDP V1, V2, V3, 7, 1	test instruction
0000295A	E710 8F00 000E		00001100	2104+	VST V1, V10UTPUT	save result
00002960	B98D 0020			2105+	EPSW R2, R0	exptract psw
00002964	5020 8EE4		000010E4	2106+	ST R2, CCPSW	to save CC
00002968	07FB			2107+	BR R11	return
0000296C				2108+RE48	DC 0F	
0000296C				2109+	DROP R5	
0000296C	00000000 00000000			2110	DC XL16'	000000000000000000000000000008D'
00002974	00000000 0000008D					
				2111		
				2112	VRI_F VDP, - 100, - 12, 7, 1, 2	
00002980				2113+	DS 0FD	
00002980		00002980		2114+	USING *, R5	base for test data and test routine
00002980	000029B0			2115+T49	DC A(X49)	address of test routine
00002984	0031			2116+	DC H' 49'	test number
00002986	00			2117+	DC X' 00'	
00002987	07			2118+	DC HL1' 7'	i4
00002988	01			2119+	DC HL1' 1'	m5
00002989	02			2120+	DC HL1' 2'	cc
0000298A	0D			2121+	DC HL1' 13'	cc failed mask
00002990	FFFFFFFF FFFFFFFF9C			2122+V2_49	DC FD' - 100'	binary value for v2 packed decimal
00002998	FFFFFFFF FFFFFFFF4			2123+V3_49	DC FD' - 12'	binary value for v3 packed decimal
000029A0	E5C4D740 40404040			2124+	DC CL8' VDP'	instruction name
000029A8	00000010			2125+	DC A(16)	result length
000029AC	000029EC			2126+REA49	DC A(RE49)	result address
				2127+*		INSTRUCTION UNDER TEST ROUTINE
000029B0				2128+X49	DS 0F	





LOC	OBJECT CODE			ADDR1	ADDR2	STMT	
00002A88	01					2183+	DC HL1' 1' m5
00002A89	03					2184+	DC HL1' 3' cc
00002A8A	0E					2185+	DC HL1' 14' cc failed mask
00002A90	00000002	540BE40A				2186+V2_51	DC FD' +10000000010' binary value for v2 packed decimal
00002A98	00000000	0000000A				2187+V3_51	DC FD' +10' binary value for v3 packed decimal
00002AA0	E5C4D740	40404040				2188+	DC CL8' VDP' instruction name
00002AA8	00000010					2189+	DC A(16) result length
00002AAC	00002AEC					2190+REA51	DC A(RE51) result address
						2191+*	INSTRUCTION UNDER TEST ROUTINE
00002AB0						2192+X51	DS 0F
00002AB0	E320	5010	0004		00002A90	2193+	LG R2, V2_51 convert v2
00002AB6	E320	8F4F	002E		0000114F	2194+	CVDG R2, V2PACKED
00002ABC	E720	8F4F	0006		0000114F	2195+	VL V2, V2PACKED
00002AC2	E320	5018	0004		00002A98	2196+	LG R2, V3_51 convert v3
00002AC8	E320	8F5F	002E		0000115F	2197+	CVDG R2, V3PACKED
00002ACE	E730	8F5F	0006		0000115F	2198+	VL V3, V3PACKED
00002AD4	E612	3018	707A			2199+	VDP V1, V2, V3, 135, 1 test instruction
00002ADA	E710	8F00	000E		00001100	2200+	VST V1, V10UTPUT save result
00002AE0	B98D	0020				2201+	EPSW R2, R0 exptract psw
00002AE4	5020	8EE4			000010E4	2202+	ST R2, CCPSW to save CC
00002AE8	07FB					2203+	BR R11 return
00002AEC						2204+RE51	DC 0F
00002AEC						2205+	DROP R5
00002AEC	00000000	00000000				2206	DC XL16' 00000000000000000000000000000001C' note RDC
00002AF4	00000000	0000001C				2207	
						2208 * VDP larger #'s , i4=159(iom=1 & rdc=31)	
						2209 VRI_F	VDP, +999999999999999999, +1, 159, 1, 2
00002B00						2210+	DS 0FD
00002B00				00002B00		2211+	USING *, R5 base for test data and test routine
00002B00	00002B30					2212+T52	DC A(X52) address of test routine
00002B04	0034					2213+	DC H' 52' test number
00002B06	00					2214+	DC X' 00'
00002B07	9F					2215+	DC HL1' 159' i4
00002B08	01					2216+	DC HL1' 1' m5
00002B09	02					2217+	DC HL1' 2' cc
00002B0A	0D					2218+	DC HL1' 13' cc failed mask
						2219+V2_52	DC FD' +999999999999999999' \
00002B10	01634578	5D89FFFF				+	binary value for v2 packed decimal
00002B18	00000000	00000001				2220+V3_52	DC FD' +1' binary value for v3 packed decimal
00002B20	E5C4D740	40404040				2221+	DC CL8' VDP' instruction name
00002B28	00000010					2222+	DC A(16) result length
00002B2C	00002B6C					2223+REA52	DC A(RE52) result address
						2224+*	INSTRUCTION UNDER TEST ROUTINE
00002B30						2225+X52	DS 0F
00002B30	E320	5010	0004		00002B10	2226+	LG R2, V2_52 convert v2
00002B36	E320	8F4F	002E		0000114F	2227+	CVDG R2, V2PACKED
00002B3C	E720	8F4F	0006		0000114F	2228+	VL V2, V2PACKED
00002B42	E320	5018	0004		00002B18	2229+	LG R2, V3_52 convert v3
00002B48	E320	8F5F	002E		0000115F	2230+	CVDG R2, V3PACKED
00002B4E	E730	8F5F	0006		0000115F	2231+	VL V3, V3PACKED
00002B54	E612	3019	F07A			2232+	VDP V1, V2, V3, 159, 1 test instruction
00002B5A	E710	8F00	000E		00001100	2233+	VST V1, V10UTPUT save result
00002B60	B98D	0020				2234+	EPSW R2, R0 exptract psw
00002B64	5020	8EE4			000010E4	2235+	ST R2, CCPSW to save CC
00002B68	07FB					2236+	BR R11 return



LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00002B6C				2237+RE52	DC	0F	
00002B6C				2238+	DROP	R5	
00002B6C	00000000 00000099			2239	DC	XL16'	00000000000000009999999999999999C'
00002B74	99999999 9999999C						
				2240			
				2241	VRI_F	VDP, - 9999999999999999, +1000, 159, 1, 1	
00002B80				2242+	DS	0FD	
00002B80		00002B80		2243+	USING	*, R5	base for test data and test routine
00002B80	00002BB0			2244+T53	DC	A(X53)	address of test routine
00002B84	0035			2245+	DC	H' 53'	test number
00002B86	00			2246+	DC	X' 00'	
00002B87	9F			2247+	DC	HL1' 159'	i4
00002B88	01			2248+	DC	HL1' 1'	m5
00002B89	01			2249+	DC	HL1' 1'	cc
00002B8A	0B			2250+	DC	HL1' 11'	cc failed mask
				2251+V2_53	DC	FD' - 9999999999999999' \	
00002B90	FE9CBA87 A2760001			+			binary value for v2 packed decimal
00002B98	00000000 000003E8			2252+V3_53	DC	FD' +1000'	binary value for v3 packed decimal
00002BA0	E5C4D740 40404040			2253+	DC	CL8' VDP'	instruction name
00002BA8	00000010			2254+	DC	A(16)	result length
00002BAC	00002BEC			2255+REA53	DC	A(RE53)	result address
				2256+*			INSTRUCTION UNDER TEST ROUTINE
00002BB0				2257+X53	DS	0F	
00002BB0	E320 5010 0004		00002B90	2258+	LG	R2, V2_53	convert v2
00002BB6	E320 8F4F 002E		0000114F	2259+	CVDG	R2, V2PACKED	
00002BBC	E720 8F4F 0006		0000114F	2260+	VL	V2, V2PACKED	
00002BC2	E320 5018 0004		00002B98	2261+	LG	R2, V3_53	convert v3
00002BC8	E320 8F5F 002E		0000115F	2262+	CVDG	R2, V3PACKED	
00002BCE	E730 8F5F 0006		0000115F	2263+	VL	V3, V3PACKED	
00002BD4	E612 3019 F07A			2264+	VDP	V1, V2, V3, 159, 1	test instruction
00002BDA	E710 8F00 000E		00001100	2265+	VST	V1, V10UTPUT	save result
00002BE0	B98D 0020			2266+	EPSW	R2, R0	exptract psw
00002BE4	5020 8EE4		000010E4	2267+	ST	R2, CCPSW	to save CC
00002BE8	07FB			2268+	BR	R11	return
00002BEC				2269+RE53	DC	0F	
00002BEC				2270+	DROP	R5	
00002BEC	00000000 00000000			2271	DC	XL16'	00000000000000000999999999999999D'
00002BF4	09999999 9999999D						
				2272			
				2273	VRI_F	VDP, - 9999999999999999, - 1, 159, 1, 2	
00002C00				2274+	DS	0FD	
00002C00		00002C00		2275+	USING	*, R5	base for test data and test routine
00002C00	00002C30			2276+T54	DC	A(X54)	address of test routine
00002C04	0036			2277+	DC	H' 54'	test number
00002C06	00			2278+	DC	X' 00'	
00002C07	9F			2279+	DC	HL1' 159'	i4
00002C08	01			2280+	DC	HL1' 1'	m5
00002C09	02			2281+	DC	HL1' 2'	cc
00002C0A	0D			2282+	DC	HL1' 13'	cc failed mask
				2283+V2_54	DC	FD' - 9999999999999999' \	
00002C10	FFDC790D 903F0001			+			binary value for v2 packed decimal
00002C18	FFFFFFFF FFFFFFFF			2284+V3_54	DC	FD' - 1'	binary value for v3 packed decimal
00002C20	E5C4D740 40404040			2285+	DC	CL8' VDP'	instruction name
00002C28	00000010			2286+	DC	A(16)	result length
00002C2C	00002C6C			2287+REA54	DC	A(RE54)	result address
				2288+*			INSTRUCTION UNDER TEST ROUTINE

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00002C30				2289+X54	DS	0F	
00002C30	E320 5010 0004		00002C10	2290+	LG	R2, V2_54	convert v2
00002C36	E320 8F4F 002E		0000114F	2291+	CVDG	R2, V2PACKED	
00002C3C	E720 8F4F 0006		0000114F	2292+	VL	V2, V2PACKED	
00002C42	E320 5018 0004		00002C18	2293+	LG	R2, V3_54	convert v3
00002C48	E320 8F5F 002E		0000115F	2294+	CVDG	R2, V3PACKED	
00002C4E	E730 8F5F 0006		0000115F	2295+	VL	V3, V3PACKED	
00002C54	E612 3019 F07A			2296+	VDP	V1, V2, V3, 159, 1	test instruction
00002C5A	E710 8F00 000E		00001100	2297+	VST	V1, V10UTPUT	save result
00002C60	B98D 0020			2298+	EPSW	R2, R0	exptract psw
00002C64	5020 8EE4		000010E4	2299+	ST	R2, CCPSW	to save CC
00002C68	07FB			2300+	BR	R11	return
00002C6C				2301+RE54	DC	0F	
00002C6C				2302+	DROP	R5	
00002C6C	00000000 00000009			2303	DC	XL16' 0000000000000000099999999999999C'	
00002C74	99999999 9999999C						
				2304			
00002C80				2305	VRI_F	VDP, - 9999999999999999, - 1, 135, 1, 3	i4=135(iom=1 & rdc=7)
00002C80		00002C80		2306+	DS	0FD	
00002C80	00002CB0			2307+	USING	*, R5	base for test data and test routine
00002C84	0037			2308+T55	DC	A(X55)	address of test routine
00002C86	00			2309+	DC	H' 55'	test number
00002C87	87			2310+	DC	X' 00'	
00002C88	01			2311+	DC	HL1' 135'	i4
00002C89	03			2312+	DC	HL1' 1'	m5
00002C8A	0E			2313+	DC	HL1' 3'	cc
				2314+	DC	HL1' 14'	cc failed mask
00002C90	FFDC790D 903F0001			2315+V2_55	DC	FD' - 9999999999999999' \	
00002C98	FFFFFFFF FFFFFFFF			+			binary value for v2 packed decimal
00002CA0	E5C4D740 40404040			2316+V3_55	DC	FD' - 1'	binary value for v3 packed decimal
00002CA8	00000010			2317+	DC	CL8' VDP'	instruction name
00002CAC	00002CEC			2318+	DC	A(16)	result length
				2319+REA55	DC	A(RE55)	result address
				2320+*			INSTRUCTION UNDER TEST ROUTINE
00002CB0				2321+X55	DS	0F	
00002CB0	E320 5010 0004		00002C90	2322+	LG	R2, V2_55	convert v2
00002CB6	E320 8F4F 002E		0000114F	2323+	CVDG	R2, V2PACKED	
00002CBC	E720 8F4F 0006		0000114F	2324+	VL	V2, V2PACKED	
00002CC2	E320 5018 0004		00002C98	2325+	LG	R2, V3_55	convert v3
00002CC8	E320 8F5F 002E		0000115F	2326+	CVDG	R2, V3PACKED	
00002CCE	E730 8F5F 0006		0000115F	2327+	VL	V3, V3PACKED	
00002CD4	E612 3018 707A			2328+	VDP	V1, V2, V3, 135, 1	test instruction
00002CDA	E710 8F00 000E		00001100	2329+	VST	V1, V10UTPUT	save result
00002CE0	B98D 0020			2330+	EPSW	R2, R0	exptract psw
00002CE4	5020 8EE4		000010E4	2331+	ST	R2, CCPSW	to save CC
00002CE8	07FB			2332+	BR	R11	return
00002CEC				2333+RE55	DC	0F	
00002CEC				2334+	DROP	R5	
00002CEC	00000000 00000000			2335	DC	XL16' 00000000000000000000000009999999C'	overflow RDC
00002CF4	00000000 9999999C						
				2336			
00002D00				2337	VRI_F	VDP, +99999999999999, +1234, 159, 1, 2	
00002D00		00002D00		2338+	DS	0FD	
00002D00	00002D30			2339+	USING	*, R5	base for test data and test routine
00002D04	0038			2340+T56	DC	A(X56)	address of test routine
				2341+	DC	H' 56'	test number

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00002D06	00			2342+	DC	X' 00'	
00002D07	9F			2343+	DC	HL1' 159'	i4
00002D08	01			2344+	DC	HL1' 1'	m5
00002D09	02			2345+	DC	HL1' 2'	cc
00002D0A	0D			2346+	DC	HL1' 13'	cc failed mask
				2347+V2_56	DC	FD' +99999999999999'	\
00002D10	00000918	4E729FFF		+			binary value for v2 packed decimal
00002D18	00000000	000004D2		2348+V3_56	DC	FD' +1234'	binary value for v3 packed decimal
00002D20	E5C4D740	40404040		2349+	DC	CL8' VDP'	instruction name
00002D28	00000010			2350+	DC	A(16)	result length
00002D2C	00002D6C			2351+REA56	DC	A(RE56)	result address
				2352+*			INSTRUCTION UNDER TEST ROUTINE
00002D30				2353+X56	DS	0F	
00002D30	E320 5010 0004		00002D10	2354+	LG	R2, V2_56	convert v2
00002D36	E320 8F4F 002E		0000114F	2355+	CVDG	R2, V2PACKED	
00002D3C	E720 8F4F 0006		0000114F	2356+	VL	V2, V2PACKED	
00002D42	E320 5018 0004		00002D18	2357+	LG	R2, V3_56	convert v3
00002D48	E320 8F5F 002E		0000115F	2358+	CVDG	R2, V3PACKED	
00002D4E	E730 8F5F 0006		0000115F	2359+	VL	V3, V3PACKED	
00002D54	E612 3019 F07A			2360+	VDP	V1, V2, V3, 159, 1	test instruction
00002D5A	E710 8F00 000E		00001100	2361+	VST	V1, V10UTPUT	save result
00002D60	B98D 0020			2362+	EPSW	R2, R0	exptract psw
00002D64	5020 8EE4		000010E4	2363+	ST	R2, CCPSW	to save CC
00002D68	07FB			2364+	BR	R11	return
00002D6C				2365+RE56	DC	0F	
00002D6C				2366+	DROP	R5	
00002D6C	00000000 00000000			2367	DC	XL16' 000000000000000000000008103727714C'	
00002D74	00000810 3727714C						
				2368			
00002D80				2369	VRI_F	VDP, +999999999999999999, +1234, 159, 1, 2	
00002D80		00002D80		2370+	DS	0FD	
00002D80	00002DB0			2371+	USING	*, R5	base for test data and test routine
00002D84	0039			2372+T57	DC	A(X57)	address of test routine
00002D86	00			2373+	DC	H' 57'	test number
00002D87	9F			2374+	DC	X' 00'	
00002D88	01			2375+	DC	HL1' 159'	i4
00002D89	02			2376+	DC	HL1' 1'	m5
00002D8A	0D			2377+	DC	HL1' 2'	cc
				2378+	DC	HL1' 13'	cc failed mask
				2379+V2_57	DC	FD' +999999999999999999'	\
00002D90	0DE0B6B3	A763FFFF		+			binary value for v2 packed decimal
00002D98	00000000	000004D2		2380+V3_57	DC	FD' +1234'	binary value for v3 packed decimal
00002DA0	E5C4D740	40404040		2381+	DC	CL8' VDP'	instruction name
00002DA8	00000010			2382+	DC	A(16)	result length
00002DAC	00002DEC			2383+REA57	DC	A(RE57)	result address
				2384+*			INSTRUCTION UNDER TEST ROUTINE
00002DB0				2385+X57	DS	0F	
00002DB0	E320 5010 0004		00002D90	2386+	LG	R2, V2_57	convert v2
00002DB6	E320 8F4F 002E		0000114F	2387+	CVDG	R2, V2PACKED	
00002DBC	E720 8F4F 0006		0000114F	2388+	VL	V2, V2PACKED	
00002DC2	E320 5018 0004		00002D98	2389+	LG	R2, V3_57	convert v3
00002DC8	E320 8F5F 002E		0000115F	2390+	CVDG	R2, V3PACKED	
00002DCE	E730 8F5F 0006		0000115F	2391+	VL	V3, V3PACKED	
00002DD4	E612 3019 F07A			2392+	VDP	V1, V2, V3, 159, 1	test instruction
00002DDA	E710 8F00 000E		00001100	2393+	VST	V1, V10UTPUT	save result
00002DE0	B98D 0020			2394+	EPSW	R2, R0	exptract psw

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00002DE4	5020 8EE4		000010E4	2395+	ST	R2, CCPSW	to save CC
00002DE8	07FB			2396+	BR	R11	return
00002DEC				2397+RE57	DC	0F	
00002DEC				2398+	DROP	R5	
00002DEC	00000000 00000000			2399	DC	XL16' 00000000000000000810372771474878C'	
00002DF4	81037277 1474878C						
				2400			
				2401 *	VDP larger #'s , i4=159(iom=1 & rdc=31)		CS=1 for all m5
				2402 *	check forced positive		
				2403	VRI_F VDP, - 9999999999999999, +1, 159, 9, 2		m5=9(P2=1)
00002E00				2404+	DS	0FD	
00002E00		00002E00		2405+	USING	*, R5	base for test data and test routine
00002E00	00002E30			2406+T58	DC	A(X58)	address of test routine
00002E04	003A			2407+	DC	H' 58'	test number
00002E06	00			2408+	DC	X' 00'	
00002E07	9F			2409+	DC	HL1' 159'	i4
00002E08	09			2410+	DC	HL1' 9'	m5
00002E09	02			2411+	DC	HL1' 2'	cc
00002E0A	0D			2412+	DC	HL1' 13'	cc failed mask
				2413+V2_58	DC	FD' - 9999999999999999' \	
00002E10	FE9CBA87 A2760001			+			binary value for v2 packed decimal
00002E18	00000000 00000001			2414+V3_58	DC	FD' +1'	binary value for v3 packed decimal
00002E20	E5C4D740 40404040			2415+	DC	CL8' VDP'	instruction name
00002E28	00000010			2416+	DC	A(16)	result length
00002E2C	00002E6C			2417+REA58	DC	A(RE58)	result address
				2418+*			INSTRUCTION UNDER TEST ROUTINE
00002E30				2419+X58	DS	0F	
00002E30	E320 5010 0004		00002E10	2420+	LG	R2, V2_58	convert v2
00002E36	E320 8F4F 002E		0000114F	2421+	CVDG	R2, V2PACKED	
00002E3C	E720 8F4F 0006		0000114F	2422+	VL	V2, V2PACKED	
00002E42	E320 5018 0004		00002E18	2423+	LG	R2, V3_58	convert v3
00002E48	E320 8F5F 002E		0000115F	2424+	CVDG	R2, V3PACKED	
00002E4E	E730 8F5F 0006		0000115F	2425+	VL	V3, V3PACKED	
00002E54	E612 3099 F07A			2426+	VDP	V1, V2, V3, 159, 9	test instruction
00002E5A	E710 8F00 000E		00001100	2427+	VST	V1, V10UTPUT	save result
00002E60	B98D 0020			2428+	EPSW	R2, R0	exptract psw
00002E64	5020 8EE4		000010E4	2429+	ST	R2, CCPSW	to save CC
00002E68	07FB			2430+	BR	R11	return
00002E6C				2431+RE58	DC	0F	
00002E6C				2432+	DROP	R5	
00002E6C	00000000 00000099			2433	DC	XL16' 00000000000000009999999999999999C'	
00002E74	99999999 9999999C						
				2434			
				2435	VRI_F	VDP, +9999999999999999, - 1000, 159, 13, 2	m5=13(P2=1, P3=1)
00002E80				2436+	DS	0FD	
00002E80		00002E80		2437+	USING	*, R5	base for test data and test routine
00002E80	00002EB0			2438+T59	DC	A(X59)	address of test routine
00002E84	003B			2439+	DC	H' 59'	test number
00002E86	00			2440+	DC	X' 00'	
00002E87	9F			2441+	DC	HL1' 159'	i4
00002E88	0D			2442+	DC	HL1' 13'	m5
00002E89	02			2443+	DC	HL1' 2'	cc
00002E8A	0D			2444+	DC	HL1' 13'	cc failed mask
				2445+V2_59	DC	FD' +9999999999999999' \	
00002E90	01634578 5D89FFFF			+			binary value for v2 packed decimal
00002E98	FFFFFFFF FFFFC18			2446+V3_59	DC	FD' - 1000'	binary value for v3 packed decimal



LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00002EA0	E5C4D740 40404040			2447+	DC	CL8' VDP'	instruction name
00002EA8	00000010			2448+	DC	A(16)	result length
00002EAC	00002EEC			2449+REA59	DC	A(RE59)	result address
				2450+*			INSTRUCTION UNDER TEST ROUTINE
00002EB0				2451+X59	DS	0F	
00002EB0	E320 5010 0004		00002E90	2452+	LG	R2, V2_59	convert v2
00002EB6	E320 8F4F 002E		0000114F	2453+	CVDG	R2, V2PACKED	
00002EBC	E720 8F4F 0006		0000114F	2454+	VL	V2, V2PACKED	
00002EC2	E320 5018 0004		00002E98	2455+	LG	R2, V3_59	convert v3
00002EC8	E320 8F5F 002E		0000115F	2456+	CVDG	R2, V3PACKED	
00002ECE	E730 8F5F 0006		0000115F	2457+	VL	V3, V3PACKED	
00002ED4	E612 30D9 F07A			2458+	VDP	V1, V2, V3, 159, 13	test instruction
00002EDA	E710 8F00 000E		00001100	2459+	VST	V1, V10OUTPUT	save result
00002EE0	B98D 0020			2460+	EPSW	R2, R0	exptract psw
00002EE4	5020 8EE4		000010E4	2461+	ST	R2, CCPSW	to save CC
00002EE8	07FB			2462+	BR	R11	return
00002EEC				2463+RE59	DC	0F	
00002EEC				2464+	DROP	R5	
00002EEC	00000000 00000000			2465	DC	XL16' 0000000000000000099999999999999C'	
00002EF4	09999999 9999999C						
				2466			
				2467	VRI_F	VDP, - 9999999999999999, - 1, 159, 3, 2	m5=3(P1=1)
00002F00				2468+	DS	0FD	
00002F00		00002F00		2469+	USING	*, R5	base for test data and test routine
00002F00	00002F30			2470+T60	DC	A(X60)	address of test routine
00002F04	003C			2471+	DC	H' 60'	test number
00002F06	00			2472+	DC	X' 00'	
00002F07	9F			2473+	DC	HL1' 159'	i4
00002F08	03			2474+	DC	HL1' 3'	m5
00002F09	02			2475+	DC	HL1' 2'	cc
00002F0A	0D			2476+	DC	HL1' 13'	cc failed mask
				2477+V2_60	DC	FD' - 9999999999999999' \	
00002F10	FFDC790D 903F0001			+			binary value for v2 packed decimal
00002F18	FFFFFFFF FFFFFFFF			2478+V3_60	DC	FD' - 1'	binary value for v3 packed decimal
00002F20	E5C4D740 40404040			2479+	DC	CL8' VDP'	instruction name
00002F28	00000010			2480+	DC	A(16)	result length
00002F2C	00002F6C			2481+REA60	DC	A(RE60)	result address
				2482+*			INSTRUCTION UNDER TEST ROUTINE
00002F30				2483+X60	DS	0F	
00002F30	E320 5010 0004		00002F10	2484+	LG	R2, V2_60	convert v2
00002F36	E320 8F4F 002E		0000114F	2485+	CVDG	R2, V2PACKED	
00002F3C	E720 8F4F 0006		0000114F	2486+	VL	V2, V2PACKED	
00002F42	E320 5018 0004		00002F18	2487+	LG	R2, V3_60	convert v3
00002F48	E320 8F5F 002E		0000115F	2488+	CVDG	R2, V3PACKED	
00002F4E	E730 8F5F 0006		0000115F	2489+	VL	V3, V3PACKED	
00002F54	E612 3039 F07A			2490+	VDP	V1, V2, V3, 159, 3	test instruction
00002F5A	E710 8F00 000E		00001100	2491+	VST	V1, V10OUTPUT	save result
00002F60	B98D 0020			2492+	EPSW	R2, R0	exptract psw
00002F64	5020 8EE4		000010E4	2493+	ST	R2, CCPSW	to save CC
00002F68	07FB			2494+	BR	R11	return
00002F6C				2495+RE60	DC	0F	
00002F6C				2496+	DROP	R5	
00002F6C	00000000 00000009			2497	DC	XL16' 0000000000000000099999999999999F'	
00002F74	99999999 9999999F						
				2498			
				2499 *			m5=13(P2=1, P3=1)



LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
00002F80				2500	VRI_F VDP, +9999999999999999, -1, 135, 13, 3	i4=135(iom=1 & rdc=7)
00002F80		00002F80		2501+	DS OFD	
00002F80	00002FB0			2502+	USING *, R5	base for test data and test routine
00002F84	003D			2503+T61	DC A(X61)	address of test routine
00002F86	00			2504+	DC H' 61'	test number
00002F87	87			2505+	DC X' 00'	
00002F88	0D			2506+	DC HL1' 135'	i4
00002F89	03			2507+	DC HL1' 13'	m5
00002F8A	0E			2508+	DC HL1' 3'	cc
				2509+	DC HL1' 14'	cc failed mask
				2510+V2_61	DC FD' +9999999999999999' \	
00002F90	002386F2 6FC0FFFF			+		binary value for v2 packed decimal
00002F98	FFFFFFFF FFFFFFFF			2511+V3_61	DC FD' -1'	binary value for v3 packed decimal
00002FA0	E5C4D740 40404040			2512+	DC CL8' VDP'	instruction name
00002FA8	00000010			2513+	DC A(16)	result length
00002FAC	00002FEC			2514+REA61	DC A(RE61)	result address
				2515+*		INSTRUCTION UNDER TEST ROUTINE
00002FB0				2516+X61	DS OF	
00002FB0	E320 5010 0004		00002F90	2517+	LG R2, V2_61	convert v2
00002FB6	E320 8F4F 002E		0000114F	2518+	CVDG R2, V2PACKED	
00002FBC	E720 8F4F 0006		0000114F	2519+	VL V2, V2PACKED	
00002FC2	E320 5018 0004		00002F98	2520+	LG R2, V3_61	convert v3
00002FC8	E320 8F5F 002E		0000115F	2521+	CVDG R2, V3PACKED	
00002FCE	E730 8F5F 0006		0000115F	2522+	VL V3, V3PACKED	
00002FD4	E612 30D8 707A			2523+	VDP V1, V2, V3, 135, 13	test instruction
00002FDA	E710 8F00 000E		00001100	2524+	VST V1, V10UTPUT	save result
00002FE0	B98D 0020			2525+	EPSW R2, R0	exptract psw
00002FE4	5020 8EE4		000010E4	2526+	ST R2, CCPSW	to save CC
00002FE8	07FB			2527+	BR R11	return
00002FEC				2528+RE61	DC OF	
00002FEC				2529+	DROP R5	
00002FEC	00000000 00000000			2530	DC XL16' 00000000000000000000000009999999C'	overflow RDC
00002FF4	00000000 9999999C					
				2531		
				2532	VRI_F VDP, +9999999999999999, +1234, 159, 3, 2	m5=3(P1=1)
00003000				2533+	DS OFD	
00003000		00003000		2534+	USING *, R5	base for test data and test routine
00003000	00003030			2535+T62	DC A(X62)	address of test routine
00003004	003E			2536+	DC H' 62'	test number
00003006	00			2537+	DC X' 00'	
00003007	9F			2538+	DC HL1' 159'	i4
00003008	03			2539+	DC HL1' 3'	m5
00003009	02			2540+	DC HL1' 2'	cc
0000300A	0D			2541+	DC HL1' 13'	cc failed mask
				2542+V2_62	DC FD' +9999999999999999' \	
				+		binary value for v2 packed decimal
00003010	00000918 4E729FFF			2543+V3_62	DC FD' +1234'	binary value for v3 packed decimal
00003018	00000000 000004D2			2544+	DC CL8' VDP'	instruction name
00003020	E5C4D740 40404040			2545+	DC A(16)	result length
00003028	00000010			2546+REA62	DC A(RE62)	result address
0000302C	0000306C			2547+*		INSTRUCTION UNDER TEST ROUTINE
00003030				2548+X62	DS OF	
00003030	E320 5010 0004		00003010	2549+	LG R2, V2_62	convert v2
00003036	E320 8F4F 002E		0000114F	2550+	CVDG R2, V2PACKED	
0000303C	E720 8F4F 0006		0000114F	2551+	VL V2, V2PACKED	
00003042	E320 5018 0004		00003018	2552+	LG R2, V3_62	convert v3

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00003048	E320 8F5F 002E		0000115F	2553+	CVDG	R2, V3PACKED	
0000304E	E730 8F5F 0006		0000115F	2554+	VL	V3, V3PACKED	
00003054	E612 3039 F07A			2555+	VDP	V1, V2, V3, 159, 3	test instruction
0000305A	E710 8F00 000E		00001100	2556+	VST	V1, V10OUTPUT	save result
00003060	B98D 0020			2557+	EPSW	R2, R0	exptract psw
00003064	5020 8EE4		000010E4	2558+	ST	R2, CCPSW	to save CC
00003068	07FB			2559+	BR	R11	return
0000306C				2560+RE62	DC	0F	
0000306C				2561+	DROP	R5	
0000306C	00000000 00000000			2562	DC	XL16' 000000000000000000000008103727714F'	
00003074	00000810 3727714F						
				2563			
				2564 *			m5=15(P1=1, P2=1, P3=1)
				2565	VRI_F	VDP, - 999999999999999999, - 1234, 159, 15, 2	
00003080				2566+	DS	0FD	
00003080		00003080		2567+	USING	*, R5	base for test data and test routine
00003080	000030B0			2568+T63	DC	A(X63)	address of test routine
00003084	003F			2569+	DC	H' 63'	test number
00003086	00			2570+	DC	X' 00'	
00003087	9F			2571+	DC	HL1' 159'	i4
00003088	0F			2572+	DC	HL1' 15'	m5
00003089	02			2573+	DC	HL1' 2'	cc
0000308A	0D			2574+	DC	HL1' 13'	cc failed mask
				2575+V2_63	DC	FD' - 999999999999999999' \	
00003090	F21F494C 589C0001			+			binary value for v2 packed decimal
00003098	FFFFFFFF FFFFB2E			2576+V3_63	DC	FD' - 1234'	binary value for v3 packed decimal
000030A0	E5C4D740 40404040			2577+	DC	CL8' VDP'	instruction name
000030A8	00000010			2578+	DC	A(16)	result length
000030AC	000030EC			2579+REA63	DC	A(RE63)	result address
				2580+*			INSTRUCTION UNDER TEST ROUTINE
000030B0				2581+X63	DS	0F	
000030B0	E320 5010 0004		00003090	2582+	LG	R2, V2_63	convert v2
000030B6	E320 8F4F 002E		0000114F	2583+	CVDG	R2, V2PACKED	
000030BC	E720 8F4F 0006		0000114F	2584+	VL	V2, V2PACKED	
000030C2	E320 5018 0004		00003098	2585+	LG	R2, V3_63	convert v3
000030C8	E320 8F5F 002E		0000115F	2586+	CVDG	R2, V3PACKED	
000030CE	E730 8F5F 0006		0000115F	2587+	VL	V3, V3PACKED	
000030D4	E612 30F9 F07A			2588+	VDP	V1, V2, V3, 159, 15	test instruction
000030DA	E710 8F00 000E		00001100	2589+	VST	V1, V10OUTPUT	save result
000030E0	B98D 0020			2590+	EPSW	R2, R0	exptract psw
000030E4	5020 8EE4		000010E4	2591+	ST	R2, CCPSW	to save CC
000030E8	07FB			2592+	BR	R11	return
000030EC				2593+RE63	DC	0F	
000030EC				2594+	DROP	R5	
000030EC	00000000 00000000			2595	DC	XL16' 0000000000000000000810372771474878F'	
000030F4	81037277 1474878F						
				2596			
				2597 *			
				2598 *	VRP	- VECTOR REMAINDER DECIMAL	
				2599 *			
				2600 *	VRP simple	+ CC checks	
00003100				2601	VRI_F	VRP, +10, +12, 7, 1, 2	
00003100		00003100		2602+	DS	0FD	
00003100	00003130			2603+	USING	*, R5	base for test data and test routine
00003104	0040			2604+T64	DC	A(X64)	address of test routine
				2605+	DC	H' 64'	test number

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00003106	00			2606+	DC	X' 00'	
00003107	07			2607+	DC	HL1' 7'	i4
00003108	01			2608+	DC	HL1' 1'	m5
00003109	02			2609+	DC	HL1' 2'	cc
0000310A	0D			2610+	DC	HL1' 13'	cc failed mask
00003110	00000000 0000000A			2611+V2_64	DC	FD' +10'	binary value for v2 packed decimal
00003118	00000000 0000000C			2612+V3_64	DC	FD' +12'	binary value for v3 packed decimal
00003120	E5D9D740 40404040			2613+	DC	CL8' VRP'	instruction name
00003128	00000010			2614+	DC	A(16)	result length
0000312C	0000316C			2615+REA64	DC	A(RE64)	result address
				2616+*			INSTRUCTION UNDER TEST ROUTINE
00003130				2617+X64	DS	0F	
00003130	E320 5010 0004		00003110	2618+	LG	R2, V2_64	convert v2
00003136	E320 8F4F 002E		0000114F	2619+	CVDG	R2, V2PACKED	
0000313C	E720 8F4F 0006		0000114F	2620+	VL	V2, V2PACKED	
00003142	E320 5018 0004		00003118	2621+	LG	R2, V3_64	convert v3
00003148	E320 8F5F 002E		0000115F	2622+	CVDG	R2, V3PACKED	
0000314E	E730 8F5F 0006		0000115F	2623+	VL	V3, V3PACKED	
00003154	E612 3010 707B			2624+	VRP	V1, V2, V3, 7, 1	test instruction
0000315A	E710 8F00 000E		00001100	2625+	VST	V1, V10OUTPUT	save result
00003160	B98D 0020			2626+	EPSW	R2, R0	exptract psw
00003164	5020 8EE4		000010E4	2627+	ST	R2, CCPSW	to save CC
00003168	07FB			2628+	BR	R11	return
0000316C				2629+RE64	DC	0F	
0000316C				2630+	DROP	R5	
0000316C	00000000 00000000			2631	DC	XL16' 0000000000000000000000000000000010C'	
00003174	00000000 0000010C						
				2632			
				2633	VRI_F	VRP, - 100, +12, 7, 1, 1	
00003180				2634+	DS	0FD	
00003180		00003180		2635+	USING	*, R5	base for test data and test routine
00003180	000031B0			2636+T65	DC	A(X65)	address of test routine
00003184	0041			2637+	DC	H' 65'	test number
00003186	00			2638+	DC	X' 00'	
00003187	07			2639+	DC	HL1' 7'	i4
00003188	01			2640+	DC	HL1' 1'	m5
00003189	01			2641+	DC	HL1' 1'	cc
0000318A	0B			2642+	DC	HL1' 11'	cc failed mask
00003190	FFFFFFFF FFFFFFF9C			2643+V2_65	DC	FD' - 100'	binary value for v2 packed decimal
00003198	00000000 0000000C			2644+V3_65	DC	FD' +12'	binary value for v3 packed decimal
000031A0	E5D9D740 40404040			2645+	DC	CL8' VRP'	instruction name
000031A8	00000010			2646+	DC	A(16)	result length
000031AC	000031EC			2647+REA65	DC	A(RE65)	result address
				2648+*			INSTRUCTION UNDER TEST ROUTINE
000031B0				2649+X65	DS	0F	
000031B0	E320 5010 0004		00003190	2650+	LG	R2, V2_65	convert v2
000031B6	E320 8F4F 002E		0000114F	2651+	CVDG	R2, V2PACKED	
000031BC	E720 8F4F 0006		0000114F	2652+	VL	V2, V2PACKED	
000031C2	E320 5018 0004		00003198	2653+	LG	R2, V3_65	convert v3
000031C8	E320 8F5F 002E		0000115F	2654+	CVDG	R2, V3PACKED	
000031CE	E730 8F5F 0006		0000115F	2655+	VL	V3, V3PACKED	
000031D4	E612 3010 707B			2656+	VRP	V1, V2, V3, 7, 1	test instruction
000031DA	E710 8F00 000E		00001100	2657+	VST	V1, V10OUTPUT	save result
000031E0	B98D 0020			2658+	EPSW	R2, R0	exptract psw
000031E4	5020 8EE4		000010E4	2659+	ST	R2, CCPSW	to save CC
000031E8	07FB			2660+	BR	R11	return

LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
000031EC				2661+RE65	DC	0F
000031EC				2662+	DROP	R5
000031EC	00000000 00000000			2663	DC	XL16' 000000000000000000000000000000004D'
000031F4	00000000 0000004D					
				2664		
				2665	VRI_F	VRP, +100, - 12, 1, 1, 2 note rdc=1
00003200				2666+	DS	0FD
00003200		00003200		2667+	USING	*, R5 base for test data and test routine
00003200	00003230			2668+T66	DC	A(X66) address of test routine
00003204	0042			2669+	DC	H' 66' test number
00003206	00			2670+	DC	X' 00'
00003207	01			2671+	DC	HL1' 1' i4
00003208	01			2672+	DC	HL1' 1' m5
00003209	02			2673+	DC	HL1' 2' cc
0000320A	0D			2674+	DC	HL1' 13' cc failed mask
00003210	00000000 00000064			2675+V2_66	DC	FD' +100' binary value for v2 packed decimal
00003218	FFFFFFFF FFFFFFFF4			2676+V3_66	DC	FD' - 12' binary value for v3 packed decimal
00003220	E5D9D740 40404040			2677+	DC	CL8' VRP' instruction name
00003228	00000010			2678+	DC	A(16) result length
0000322C	0000326C			2679+REA66	DC	A(RE66) result address
				2680+*		INSTRUCTION UNDER TEST ROUTINE
00003230				2681+X66	DS	0F
00003230	E320 5010 0004		00003210	2682+	LG	R2, V2_66 convert v2
00003236	E320 8F4F 002E		0000114F	2683+	CVDG	R2, V2PACKED
0000323C	E720 8F4F 0006		0000114F	2684+	VL	V2, V2PACKED
00003242	E320 5018 0004		00003218	2685+	LG	R2, V3_66 convert v3
00003248	E320 8F5F 002E		0000115F	2686+	CVDG	R2, V3PACKED
0000324E	E730 8F5F 0006		0000115F	2687+	VL	V3, V3PACKED
00003254	E612 3010 107B			2688+	VRP	V1, V2, V3, 1, 1 test instruction
0000325A	E710 8F00 000E		00001100	2689+	VST	V1, V10UTPUT save result
00003260	B98D 0020			2690+	EPSW	R2, R0 exptract psw
00003264	5020 8EE4		000010E4	2691+	ST	R2, CCPSW to save CC
00003268	07FB			2692+	BR	R11 return
0000326C				2693+RE66	DC	0F
0000326C				2694+	DROP	R5
0000326C	00000000 00000000			2695	DC	XL16' 000000000000000000000000000000004C'
00003274	00000000 0000004C					
				2696		
				2697	VRI_F	VRP, +100, - 12, 7, 1, 2
00003280				2698+	DS	0FD
00003280		00003280		2699+	USING	*, R5 base for test data and test routine
00003280	000032B0			2700+T67	DC	A(X67) address of test routine
00003284	0043			2701+	DC	H' 67' test number
00003286	00			2702+	DC	X' 00'
00003287	07			2703+	DC	HL1' 7' i4
00003288	01			2704+	DC	HL1' 1' m5
00003289	02			2705+	DC	HL1' 2' cc
0000328A	0D			2706+	DC	HL1' 13' cc failed mask
00003290	00000000 00000064			2707+V2_67	DC	FD' +100' binary value for v2 packed decimal
00003298	FFFFFFFF FFFFFFFF4			2708+V3_67	DC	FD' - 12' binary value for v3 packed decimal
000032A0	E5D9D740 40404040			2709+	DC	CL8' VRP' instruction name
000032A8	00000010			2710+	DC	A(16) result length
000032AC	000032EC			2711+REA67	DC	A(RE67) result address
				2712+*		INSTRUCTION UNDER TEST ROUTINE
000032B0				2713+X67	DS	0F
000032B0	E320 5010 0004		00003290	2714+	LG	R2, V2_67 convert v2











LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00003536	E320 8F4F 002E		0000114F	2876+	CVDG	R2, V2PACKED	
0000353C	E720 8F4F 0006		0000114F	2877+	VL	V2, V2PACKED	
00003542	E320 5018 0004		00003518	2878+	LG	R2, V3_72	convert v3
00003548	E320 8F5F 002E		0000115F	2879+	CVDG	R2, V3PACKED	
0000354E	E730 8F5F 0006		0000115F	2880+	VL	V3, V3PACKED	
00003554	E612 3019 F07B			2881+	VRP	V1, V2, V3, 159, 1	test instruction
0000355A	E710 8F00 000E		00001100	2882+	VST	V1, V10OUTPUT	save result
00003560	B98D 0020			2883+	EPSW	R2, R0	exptract psw
00003564	5020 8EE4		000010E4	2884+	ST	R2, CCPSW	to save CC
00003568	07FB			2885+	BR	R11	return
0000356C				2886+RE72	DC	0F	
0000356C				2887+	DROP	R5	
0000356C	00000000 00000000			2888	DC	XL16' 0000000000000000000000000000999D'	
00003574	00000000 0000999D						
				2889			
				2890	VRI_F	VRP, - 9999999999999999, - 47, 159, 1, 1	
00003580				2891+	DS	0FD	
00003580		00003580		2892+	USING	*, R5	base for test data and test routine
00003580	000035B0			2893+T73	DC	A(X73)	address of test routine
00003584	0049			2894+	DC	H' 73'	test number
00003586	00			2895+	DC	X' 00'	
00003587	9F			2896+	DC	HL1' 159'	i4
00003588	01			2897+	DC	HL1' 1'	m5
00003589	01			2898+	DC	HL1' 1'	cc
0000358A	0B			2899+	DC	HL1' 11'	cc failed mask
				2900+V2_73	DC	FD' - 9999999999999999' \	
00003590	FFDC790D 903F0001			+			binary value for v2 packed decimal
00003598	FFFFFFFF FFFFFFFD1			2901+V3_73	DC	FD' - 47'	binary value for v3 packed decimal
000035A0	E5D9D740 40404040			2902+	DC	CL8' VRP'	instruction name
000035A8	00000010			2903+	DC	A(16)	result length
000035AC	000035EC			2904+REA73	DC	A(RE73)	result address
				2905+*			INSTRUCTION UNDER TEST ROUTINE
000035B0				2906+X73	DS	0F	
000035B0	E320 5010 0004		00003590	2907+	LG	R2, V2_73	convert v2
000035B6	E320 8F4F 002E		0000114F	2908+	CVDG	R2, V2PACKED	
000035BC	E720 8F4F 0006		0000114F	2909+	VL	V2, V2PACKED	
000035C2	E320 5018 0004		00003598	2910+	LG	R2, V3_73	convert v3
000035C8	E320 8F5F 002E		0000115F	2911+	CVDG	R2, V3PACKED	
000035CE	E730 8F5F 0006		0000115F	2912+	VL	V3, V3PACKED	
000035D4	E612 3019 F07B			2913+	VRP	V1, V2, V3, 159, 1	test instruction
000035DA	E710 8F00 000E		00001100	2914+	VST	V1, V10OUTPUT	save result
000035E0	B98D 0020			2915+	EPSW	R2, R0	exptract psw
000035E4	5020 8EE4		000010E4	2916+	ST	R2, CCPSW	to save CC
000035E8	07FB			2917+	BR	R11	return
000035EC				2918+RE73	DC	0F	
000035EC				2919+	DROP	R5	
000035EC	00000000 00000000			2920	DC	XL16' 000000000000000000000000000023D'	
000035F4	00000000 0000023D						
				2921			
				2922	VRI_F	VRP, - 9999999999999999, - 123456, 135, 1, 1 i4=135(iom=1 & rdc=7)	
00003600				2923+	DS	0FD	
00003600		00003600		2924+	USING	*, R5	base for test data and test routine
00003600	00003630			2925+T74	DC	A(X74)	address of test routine
00003604	004A			2926+	DC	H' 74'	test number
00003606	00			2927+	DC	X' 00'	
00003607	87			2928+	DC	HL1' 135'	i4

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	
00003608	01				2929+	DC HL1' 1' m5
00003609	01				2930+	DC HL1' 1' cc
0000360A	0B				2931+	DC HL1' 11' cc failed mask
00003610	FFFFFF17	2B5AF001			2932+V2_74	DC FD' - 999999999999' binary value for v2 packed decimal
00003618	FFFFFFFF	FFFE1DC0			2933+V3_74	DC FD' - 123456' binary value for v3 packed decimal
00003620	E5D9D740	40404040			2934+	DC CL8' VRP' instruction name
00003628	00000010				2935+	DC A(16) result length
0000362C	0000366C				2936+REA74	DC A(RE74) result address
					2937+*	INSTRUCTION UNDER TEST ROUTINE
00003630					2938+X74	DS OF
00003630	E320	5010	0004	00003610	2939+	LG R2, V2_74 convert v2
00003636	E320	8F4F	002E	0000114F	2940+	CVDG R2, V2PACKED
0000363C	E720	8F4F	0006	0000114F	2941+	VL V2, V2PACKED
00003642	E320	5018	0004	00003618	2942+	LG R2, V3_74 convert v3
00003648	E320	8F5F	002E	0000115F	2943+	CVDG R2, V3PACKED
0000364E	E730	8F5F	0006	0000115F	2944+	VL V3, V3PACKED
00003654	E612	3018	707B		2945+	VRP V1, V2, V3, 135, 1 test instruction
0000365A	E710	8F00	000E	00001100	2946+	VST V1, V10UTPUT save result
00003660	B98D	0020			2947+	EPSW R2, R0 exptract psw
00003664	5020	8EE4		000010E4	2948+	ST R2, CCPSW to save CC
00003668	07FB				2949+	BR R11 return
0000366C					2950+RE74	DC OF
0000366C					2951+	DROP R5
0000366C	00000000	00000000			2952	DC XL16' 0000000000000000000000000103743D'
00003674	00000000	0103743D				
					2953	
					2954	VRI_F VRP, +9999999999999, +1234, 159, 1, 2
00003680					2955+	DS OFD
00003680			00003680		2956+	USING *, R5 base for test data and test routine
00003680	000036B0				2957+T75	DC A(X75) address of test routine
00003684	004B				2958+	DC H' 75' test number
00003686	00				2959+	DC X' 00'
00003687	9F				2960+	DC HL1' 159' i4
00003688	01				2961+	DC HL1' 1' m5
00003689	02				2962+	DC HL1' 2' cc
0000368A	0D				2963+	DC HL1' 13' cc failed mask
					2964+V2_75	DC FD' +9999999999999' \
00003690	00000918	4E729FFF			+	binary value for v2 packed decimal
00003698	00000000	000004D2			2965+V3_75	DC FD' +1234' binary value for v3 packed decimal
000036A0	E5D9D740	40404040			2966+	DC CL8' VRP' instruction name
000036A8	00000010				2967+	DC A(16) result length
000036AC	000036EC				2968+REA75	DC A(RE75) result address
					2969+*	INSTRUCTION UNDER TEST ROUTINE
000036B0					2970+X75	DS OF
000036B0	E320	5010	0004	00003690	2971+	LG R2, V2_75 convert v2
000036B6	E320	8F4F	002E	0000114F	2972+	CVDG R2, V2PACKED
000036BC	E720	8F4F	0006	0000114F	2973+	VL V2, V2PACKED
000036C2	E320	5018	0004	00003698	2974+	LG R2, V3_75 convert v3
000036C8	E320	8F5F	002E	0000115F	2975+	CVDG R2, V3PACKED
000036CE	E730	8F5F	0006	0000115F	2976+	VL V3, V3PACKED
000036D4	E612	3019	F07B		2977+	VRP V1, V2, V3, 159, 1 test instruction
000036DA	E710	8F00	000E	00001100	2978+	VST V1, V10UTPUT save result
000036E0	B98D	0020			2979+	EPSW R2, R0 exptract psw
000036E4	5020	8EE4		000010E4	2980+	ST R2, CCPSW to save CC
000036E8	07FB				2981+	BR R11 return
000036EC					2982+RE75	DC OF



LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
000036EC				2983+	DROP R5	
000036EC	00000000 00000000			2984	DC	XL16' 000000000000000000000000000923C'
000036F4	00000000 0000923C					
				2985		
				2986	VRI_F VRP, +9999999999999999, +1234, 159, 1, 2	
00003700				2987+	DS	OFD
00003700		00003700		2988+	USING	*, R5
00003700	00003730			2989+T76	DC	A(X76)
00003704	004C			2990+	DC	H' 76'
00003706	00			2991+	DC	X' 00'
00003707	9F			2992+	DC	HL1' 159'
00003708	01			2993+	DC	HL1' 1'
00003709	02			2994+	DC	HL1' 2'
0000370A	0D			2995+	DC	HL1' 13'
				2996+V2_76	DC	FD' +9999999999999999' \
00003710	0DE0B6B3 A763FFFF			+		binary value for v2 packed decimal
00003718	00000000 000004D2			2997+V3_76	DC	FD' +1234'
00003720	E5D9D740 40404040			2998+	DC	CL8' VRP'
00003728	00000010			2999+	DC	A(16)
0000372C	0000376C			3000+REA76	DC	A(RE76)
				3001+*		INSTRUCTION UNDER TEST ROUTINE
00003730				3002+X76	DS	OF
00003730	E320 5010 0004		00003710	3003+	LG	R2, V2_76
00003736	E320 8F4F 002E		0000114F	3004+	CVDG	R2, V2PACKED
0000373C	E720 8F4F 0006		0000114F	3005+	VL	V2, V2PACKED
00003742	E320 5018 0004		00003718	3006+	LG	R2, V3_76
00003748	E320 8F5F 002E		0000115F	3007+	CVDG	R2, V3PACKED
0000374E	E730 8F5F 0006		0000115F	3008+	VL	V3, V3PACKED
00003754	E612 3019 F07B			3009+	VRP	V1, V2, V3, 159, 1
0000375A	E710 8F00 000E		00001100	3010+	VST	V1, V10UTPUT
00003760	B98D 0020			3011+	EPSW	R2, R0
00003764	5020 8EE4		000010E4	3012+	ST	R2, CCPSW
00003768	07FB			3013+	BR	R11
0000376C				3014+RE76	DC	OF
0000376C				3015+	DROP	R5
0000376C	00000000 00000000			3016	DC	XL16' 000000000000000000000000000547C'
00003774	00000000 0000547C					
				3017		
				3018 *	VRP larger #'s , i4=159(iom=1 & rdc=31)	CS=1 for all m5
				3019 *	check forced positive	
				3020	VRI_F VRP, - 9999999999999999, +13, 159, 9, 2	m5=9(P2=1)
00003780				3021+	DS	OFD
00003780		00003780		3022+	USING	*, R5
00003780	000037B0			3023+T77	DC	A(X77)
00003784	004D			3024+	DC	H' 77'
00003786	00			3025+	DC	X' 00'
00003787	9F			3026+	DC	HL1' 159'
00003788	09			3027+	DC	HL1' 9'
00003789	02			3028+	DC	HL1' 2'
0000378A	0D			3029+	DC	HL1' 13'
				3030+V2_77	DC	FD' - 9999999999999999' \
00003790	FE9CBA87 A2760001			+		binary value for v2 packed decimal
00003798	00000000 0000000D			3031+V3_77	DC	FD' +13'
000037A0	E5D9D740 40404040			3032+	DC	CL8' VRP'
000037A8	00000010			3033+	DC	A(16)
000037AC	000037EC			3034+REA77	DC	A(RE77)





LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
00003884	004F			3088+	DC	H' 79' test number
00003886	00			3089+	DC	X' 00'
00003887	9F			3090+	DC	HL1' 159' i4
00003888	03			3091+	DC	HL1' 3' m5
00003889	02			3092+	DC	HL1' 2' cc
0000388A	0D			3093+	DC	HL1' 13' cc failed mask
				3094+V2_79	DC	FD' - 9999999999999999' \
00003890	FFDC790D 903F0001			+		binary value for v2 packed decimal
00003898	FFFFFFFF FFFFD1			3095+V3_79	DC	FD' - 47' binary value for v3 packed decimal
000038A0	E5D9D740 40404040			3096+	DC	CL8' VRP' instruction name
000038A8	00000010			3097+	DC	A(16) result length
000038AC	000038EC			3098+REA79	DC	A(RE79) result address
				3099+*		INSTRUCTION UNDER TEST ROUTINE
000038B0				3100+X79	DS	0F
000038B0	E320 5010 0004		00003890	3101+	LG	R2, V2_79 convert v2
000038B6	E320 8F4F 002E		0000114F	3102+	CVDG	R2, V2PACKED
000038BC	E720 8F4F 0006		0000114F	3103+	VL	V2, V2PACKED
000038C2	E320 5018 0004		00003898	3104+	LG	R2, V3_79 convert v3
000038C8	E320 8F5F 002E		0000115F	3105+	CVDG	R2, V3PACKED
000038CE	E730 8F5F 0006		0000115F	3106+	VL	V3, V3PACKED
000038D4	E612 3039 F07B			3107+	VRP	V1, V2, V3, 159, 3 test instruction
000038DA	E710 8F00 000E		00001100	3108+	VST	V1, V10OUTPUT save result
000038E0	B98D 0020			3109+	EPSW	R2, R0 exptrect psw
000038E4	5020 8EE4		000010E4	3110+	ST	R2, CCPSW to save CC
000038E8	07FB			3111+	BR	R11 return
000038EC				3112+RE79	DC	0F
000038EC				3113+	DROP	R5
000038EC	00000000 00000000			3114	DC	XL16' 0000000000000000000000000000023F'
000038F4	00000000 0000023F					
				3115		
				3116 *		m5=13(P2=1, P3=1)
				3117	VRI_F	VRP, - 999999999999, - 123456, 135, 13, 2 i4=135(iom=1 & rdc=7)
00003900				3118+	DS	0FD
00003900		00003900		3119+	USING	*, R5 base for test data and test routine
00003900	00003930			3120+T80	DC	A(X80) address of test routine
00003904	0050			3121+	DC	H' 80' test number
00003906	00			3122+	DC	X' 00'
00003907	87			3123+	DC	HL1' 135' i4
00003908	0D			3124+	DC	HL1' 13' m5
00003909	02			3125+	DC	HL1' 2' cc
0000390A	0D			3126+	DC	HL1' 13' cc failed mask
00003910	FFFFFF17 2B5AF001			3127+V2_80	DC	FD' - 999999999999' binary value for v2 packed decimal
00003918	FFFFFFFF FFFE1DC0			3128+V3_80	DC	FD' - 123456' binary value for v3 packed decimal
00003920	E5D9D740 40404040			3129+	DC	CL8' VRP' instruction name
00003928	00000010			3130+	DC	A(16) result length
0000392C	0000396C			3131+REA80	DC	A(RE80) result address
				3132+*		INSTRUCTION UNDER TEST ROUTINE
00003930				3133+X80	DS	0F
00003930	E320 5010 0004		00003910	3134+	LG	R2, V2_80 convert v2
00003936	E320 8F4F 002E		0000114F	3135+	CVDG	R2, V2PACKED
0000393C	E720 8F4F 0006		0000114F	3136+	VL	V2, V2PACKED
00003942	E320 5018 0004		00003918	3137+	LG	R2, V3_80 convert v3
00003948	E320 8F5F 002E		0000115F	3138+	CVDG	R2, V3PACKED
0000394E	E730 8F5F 0006		0000115F	3139+	VL	V3, V3PACKED
00003954	E612 30D8 707B			3140+	VRP	V1, V2, V3, 135, 13 test instruction
0000395A	E710 8F00 000E		00001100	3141+	VST	V1, V10OUTPUT save result



LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00003A28	00000010			3194+	DC	A(16)	result length
00003A2C	00003A6C			3195+REA82	DC	A(RE82)	result address
				3196+*			INSTRUCTION UNDER TEST ROUTINE
00003A30				3197+X82	DS	0F	
00003A30	E320 5010 0004		00003A10	3198+	LG	R2, V2_82	convert v2
00003A36	E320 8F4F 002E		0000114F	3199+	CVDG	R2, V2PACKED	
00003A3C	E720 8F4F 0006		0000114F	3200+	VL	V2, V2PACKED	
00003A42	E320 5018 0004		00003A18	3201+	LG	R2, V3_82	convert v3
00003A48	E320 8F5F 002E		0000115F	3202+	CVDG	R2, V3PACKED	
00003A4E	E730 8F5F 0006		0000115F	3203+	VL	V3, V3PACKED	
00003A54	E612 3039 F07B			3204+	VRP	V1, V2, V3, 159, 3	test instruction
00003A5A	E710 8F00 000E		00001100	3205+	VST	V1, V10OUTPUT	save result
00003A60	B98D 0020			3206+	EPSW	R2, R0	exptract psw
00003A64	5020 8EE4		000010E4	3207+	ST	R2, CCPSW	to save CC
00003A68	07FB			3208+	BR	R11	return
00003A6C				3209+RE82	DC	0F	
00003A6C				3210+	DROP	R5	
00003A6C	00000000 00000000			3211	DC	XL16' 0000000000000000000000000000000547F'	
00003A74	00000000 0000547F						
				3212			
				3213 *			
				3214 * VMSP - VECTOR MULTIPLY AND SHIFT DECIMAL			
				3215 *			
				3216 * VMSP simple + CC checks			
				3217 *		i4=128(iom=1 & shamt=0)	
				3218 *		i4=129(iom=1 & shamt=1)	
				3219 *		i4=132(iom=1 & shamt=4)	
				3220 *		i4=135(iom=1 & shamt=7)	
				3221 *		i4=142(iom=1 & shamt=14)	
				3222 *		i4=159(iom=1 & shamt=31)	
				3223			
				3224	VRI_F	VMSP, +10, +12, 129, 1, 2	shamt=1
00003A80				3225+	DS	0FD	
00003A80		00003A80		3226+	USING	*, R5	base for test data and test routine
00003A80	00003AB0			3227+T83	DC	A(X83)	address of test routine
00003A84	0053			3228+	DC	H' 83'	test number
00003A86	00			3229+	DC	X' 00'	
00003A87	81			3230+	DC	HL1' 129'	i4
00003A88	01			3231+	DC	HL1' 1'	m5
00003A89	02			3232+	DC	HL1' 2'	cc
00003A8A	0D			3233+	DC	HL1' 13'	cc failed mask
00003A90	00000000 0000000A			3234+V2_83	DC	FD' +10'	binary value for v2 packed decimal
00003A98	00000000 0000000C			3235+V3_83	DC	FD' +12'	binary value for v3 packed decimal
00003AA0	E5D4E2D7 40404040			3236+	DC	CL8' VMSP'	instruction name
00003AA8	00000010			3237+	DC	A(16)	result length
00003AAC	00003AEC			3238+REA83	DC	A(RE83)	result address
				3239+*			INSTRUCTION UNDER TEST ROUTINE
00003AB0				3240+X83	DS	0F	
00003AB0	E320 5010 0004		00003A90	3241+	LG	R2, V2_83	convert v2
00003AB6	E320 8F4F 002E		0000114F	3242+	CVDG	R2, V2PACKED	
00003ABC	E720 8F4F 0006		0000114F	3243+	VL	V2, V2PACKED	
00003AC2	E320 5018 0004		00003A98	3244+	LG	R2, V3_83	convert v3
00003AC8	E320 8F5F 002E		0000115F	3245+	CVDG	R2, V3PACKED	
00003ACE	E730 8F5F 0006		0000115F	3246+	VL	V3, V3PACKED	
00003AD4	E612 3018 1079			3247+	VMSP	V1, V2, V3, 129, 1	test instruction
00003ADA	E710 8F00 000E		00001100	3248+	VST	V1, V10OUTPUT	save result



LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00003AE0	B98D 0020			3249+	EPSW	R2, R0	exptract psw
00003AE4	5020 8EE4		000010E4	3250+	ST	R2, CCPSW	to save CC
00003AE8	07FB			3251+	BR	R11	return
00003AEC				3252+RE83	DC	0F	
00003AEC				3253+	DROP	R5	
00003AEC	00000000 00000000			3254	DC	XL16' 0000000000000000000000000000000012C'	
00003AF4	00000000 0000012C						
				3255			
				3256	VRI_F	VMSP, - 100, +12, 129, 1, 1	shamt=1
00003B00				3257+	DS	0FD	
00003B00		00003B00		3258+	USING	*, R5	base for test data and test routine
00003B00	00003B30			3259+T84	DC	A(X84)	address of test routine
00003B04	0054			3260+	DC	H' 84'	test number
00003B06	00			3261+	DC	X' 00'	
00003B07	81			3262+	DC	HL1' 129'	i4
00003B08	01			3263+	DC	HL1' 1'	m5
00003B09	01			3264+	DC	HL1' 1'	cc
00003B0A	0B			3265+	DC	HL1' 11'	cc failed mask
00003B10	FFFFFFFF FFFFFFF9C			3266+V2_84	DC	FD' - 100'	binary value for v2 packed decimal
00003B18	00000000 0000000C			3267+V3_84	DC	FD' +12'	binary value for v3 packed decimal
00003B20	E5D4E2D7 40404040			3268+	DC	CL8' VMSP'	instruction name
00003B28	00000010			3269+	DC	A(16)	result length
00003B2C	00003B6C			3270+REA84	DC	A(RE84)	result address
				3271+*			INSTRUCTION UNDER TEST ROUTINE
00003B30				3272+X84	DS	0F	
00003B30	E320 5010 0004		00003B10	3273+	LG	R2, V2_84	convert v2
00003B36	E320 8F4F 002E		0000114F	3274+	CVDG	R2, V2PACKED	
00003B3C	E720 8F4F 0006		0000114F	3275+	VL	V2, V2PACKED	
00003B42	E320 5018 0004		00003B18	3276+	LG	R2, V3_84	convert v3
00003B48	E320 8F5F 002E		0000115F	3277+	CVDG	R2, V3PACKED	
00003B4E	E730 8F5F 0006		0000115F	3278+	VL	V3, V3PACKED	
00003B54	E612 3018 1079			3279+	VMSP	V1, V2, V3, 129, 1	test instruction
00003B5A	E710 8F00 000E		00001100	3280+	VST	V1, V10UTPUT	save result
00003B60	B98D 0020			3281+	EPSW	R2, R0	exptract psw
00003B64	5020 8EE4		000010E4	3282+	ST	R2, CCPSW	to save CC
00003B68	07FB			3283+	BR	R11	return
00003B6C				3284+RE84	DC	0F	
00003B6C				3285+	DROP	R5	
00003B6C	00000000 00000000			3286	DC	XL16' 00000000000000000000000000000000120D'	
00003B74	00000000 0000120D						
				3287			
				3288	VRI_F	VMSP, +100, - 12, 128, 1, 1	shamt=0
00003B80				3289+	DS	0FD	
00003B80		00003B80		3290+	USING	*, R5	base for test data and test routine
00003B80	00003BB0			3291+T85	DC	A(X85)	address of test routine
00003B84	0055			3292+	DC	H' 85'	test number
00003B86	00			3293+	DC	X' 00'	
00003B87	80			3294+	DC	HL1' 128'	i4
00003B88	01			3295+	DC	HL1' 1'	m5
00003B89	01			3296+	DC	HL1' 1'	cc
00003B8A	0B			3297+	DC	HL1' 11'	cc failed mask
00003B90	00000000 00000064			3298+V2_85	DC	FD' +100'	binary value for v2 packed decimal
00003B98	FFFFFFFF FFFFFFFF4			3299+V3_85	DC	FD' - 12'	binary value for v3 packed decimal
00003BA0	E5D4E2D7 40404040			3300+	DC	CL8' VMSP'	instruction name
00003BA8	00000010			3301+	DC	A(16)	result length
00003BAC	00003BEC			3302+REA85	DC	A(RE85)	result address



[illegible]

LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
00003D6C				3412+RE88	DC	0F
00003D6C				3413+	DROP	R5
00003D6C	00000000 00000000			3414	DC	XL16' 00000000000000000000000000001000C'
00003D74	00000000 0001000C					
				3415		
00003D80				3416	VRI_F	VMSP, +1000001111, +10, 135, 1, 2 shamt=7
00003D80		00003D80		3417+	DS	0FD
00003D80	00003DB0			3418+	USING	*, R5 base for test data and test routine
00003D84	0059			3419+T89	DC	A(X89) address of test routine
00003D86	00			3420+	DC	H' 89' test number
00003D87	87			3421+	DC	X' 00'
00003D88	01			3422+	DC	HL1' 135' i4
00003D89	02			3423+	DC	HL1' 1' m5
00003D8A	0D			3424+	DC	HL1' 2' cc
00003D90	00000000 3B9ACE57			3425+	DC	HL1' 13' cc failed mask
00003D98	00000000 0000000A			3426+V2_89	DC	FD' +1000001111' binary value for v2 packed decimal
00003DA0	E5D4E2D7 40404040			3427+V3_89	DC	FD' +10' binary value for v3 packed decimal
00003DA8	00000010			3428+	DC	CL8' VMSP' instruction name
00003DAC	00003DEC			3429+	DC	A(16) result length
				3430+REA89	DC	A(RE89) result address
				3431+*		INSTRUCTION UNDER TEST ROUTINE
00003DB0				3432+X89	DS	0F
00003DB0	E320 5010 0004		00003D90	3433+	LG	R2, V2_89 convert v2
00003DB6	E320 8F4F 002E		0000114F	3434+	CVDG	R2, V2PACKED
00003DBC	E720 8F4F 0006		0000114F	3435+	VL	V2, V2PACKED
00003DC2	E320 5018 0004		00003D98	3436+	LG	R2, V3_89 convert v3
00003DC8	E320 8F5F 002E		0000115F	3437+	CVDG	R2, V3PACKED
00003DCE	E730 8F5F 0006		0000115F	3438+	VL	V3, V3PACKED
00003DD4	E612 3018 7079			3439+	VMSP	V1, V2, V3, 135, 1 test instruction
00003DDA	E710 8F00 000E		00001100	3440+	VST	V1, V10UTPUT save result
00003DE0	B98D 0020			3441+	EPSW	R2, R0 exptract psw
00003DE4	5020 8EE4		000010E4	3442+	ST	R2, CCPSW to save CC
00003DE8	07FB			3443+	BR	R11 return
00003DEC				3444+RE89	DC	0F
00003DEC				3445+	DROP	R5
00003DEC	00000000 00000000			3446	DC	XL16' 00000000000000000000000000001000C'
00003DF4	00000000 0001000C					
				3447		
				3448 * VMSP larger #'s		
00003E00				3449	VRI_F	VMSP, +9999999999999999, +1, 142, 1, 2 shamt=14
00003E00		00003E00		3450+	DS	0FD
00003E00	00003E30			3451+	USING	*, R5 base for test data and test routine
00003E04	005A			3452+T90	DC	A(X90) address of test routine
00003E06	00			3453+	DC	H' 90' test number
00003E07	8E			3454+	DC	X' 00'
00003E08	01			3455+	DC	HL1' 142' i4
00003E09	02			3456+	DC	HL1' 1' m5
00003E0A	0D			3457+	DC	HL1' 2' cc
				3458+	DC	HL1' 13' cc failed mask
00003E10	01634578 5D89FFFF			3459+V2_90	DC	FD' +9999999999999999' \
00003E18	00000000 00000001			+		binary value for v2 packed decimal
00003E20	E5D4E2D7 40404040			3460+V3_90	DC	FD' +1' binary value for v3 packed decimal
00003E28	00000010			3461+	DC	CL8' VMSP' instruction name
00003E2C	00003E6C			3462+	DC	A(16) result length
				3463+REA90	DC	A(RE90) result address
				3464+*		INSTRUCTION UNDER TEST ROUTINE



LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00003E30				3465+X90	DS	0F	
00003E30	E320 5010 0004		00003E10	3466+	LG	R2, V2_90	convert v2
00003E36	E320 8F4F 002E		0000114F	3467+	CVDG	R2, V2PACKED	
00003E3C	E720 8F4F 0006		0000114F	3468+	VL	V2, V2PACKED	
00003E42	E320 5018 0004		00003E18	3469+	LG	R2, V3_90	convert v3
00003E48	E320 8F5F 002E		0000115F	3470+	CVDG	R2, V3PACKED	
00003E4E	E730 8F5F 0006		0000115F	3471+	VL	V3, V3PACKED	
00003E54	E612 3018 E079			3472+	VMSP	V1, V2, V3, 142, 1	test instruction
00003E5A	E710 8F00 000E		00001100	3473+	VST	V1, V10UTPUT	save result
00003E60	B98D 0020			3474+	EPSW	R2, R0	exptract psw
00003E64	5020 8EE4		000010E4	3475+	ST	R2, CCPSW	to save CC
00003E68	07FB			3476+	BR	R11	return
00003E6C				3477+RE90	DC	0F	
00003E6C				3478+	DROP	R5	
00003E6C	00000000 00000000			3479	DC	XL16' 0000000000000000000000000000999C'	
00003E74	00000000 0000999C						
				3480			
				3481 *			shamt=14
				3482	VRI_F	VMSP, +9999999999999999, +10000000000000000, 142, 1, 2	
00003E80				3483+	DS	0FD	
00003E80		00003E80		3484+	USING	*, R5	base for test data and test routine
00003E80	00003EB0			3485+T91	DC	A(X91)	address of test routine
00003E84	005B			3486+	DC	H' 91'	test number
00003E86	00			3487+	DC	X' 00'	
00003E87	8E			3488+	DC	HL1' 142'	i4
00003E88	01			3489+	DC	HL1' 1'	m5
00003E89	02			3490+	DC	HL1' 2'	cc
00003E8A	0D			3491+	DC	HL1' 13'	cc failed mask
				3492+V2_91	DC	FD' +9999999999999999' \	
00003E90	01634578 5D89FFFF			+			binary value for v2 packed decimal
				3493+V3_91	DC	FD' +10000000000000000' \	
				+			binary value for v3 packed decimal
00003E98	002386F2 6FC10000			3494+	DC	CL8' VMSP'	instruction name
00003EA0	E5D4E2D7 40404040			3495+	DC	A(16)	result length
00003EA8	00000010			3496+REA91	DC	A(RE91)	result address
00003EAC	00003EEC			3497+*			INSTRUCTION UNDER TEST ROUTINE
00003EB0				3498+X91	DS	0F	
00003EB0	E320 5010 0004		00003E90	3499+	LG	R2, V2_91	convert v2
00003EB6	E320 8F4F 002E		0000114F	3500+	CVDG	R2, V2PACKED	
00003EBC	E720 8F4F 0006		0000114F	3501+	VL	V2, V2PACKED	
00003EC2	E320 5018 0004		00003E98	3502+	LG	R2, V3_91	convert v3
00003EC8	E320 8F5F 002E		0000115F	3503+	CVDG	R2, V3PACKED	
00003ECE	E730 8F5F 0006		0000115F	3504+	VL	V3, V3PACKED	
00003ED4	E612 3018 E079			3505+	VMSP	V1, V2, V3, 142, 1	test instruction
00003EDA	E710 8F00 000E		00001100	3506+	VST	V1, V10UTPUT	save result
00003EE0	B98D 0020			3507+	EPSW	R2, R0	exptract psw
00003EE4	5020 8EE4		000010E4	3508+	ST	R2, CCPSW	to save CC
00003EE8	07FB			3509+	BR	R11	return
00003EEC				3510+RE91	DC	0F	
00003EEC				3511+	DROP	R5	
00003EEC	00000000 00009999			3512	DC	XL16' 000000000000999999999999999900C'	
00003EF4	99999999 9999900C						
				3513			
				3514	VRI_F	VMSP, - 9999999999999999, - 1, 159, 1, 0	shamt=31
00003F00				3515+	DS	0FD	
00003F00		00003F00		3516+	USING	*, R5	base for test data and test routine

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00003F00	00003F30			3517+T92	DC	A(X92)	address of test routine
00003F04	005C			3518+	DC	H' 92'	test number
00003F06	00			3519+	DC	X' 00'	
00003F07	9F			3520+	DC	HL1' 159'	i4
00003F08	01			3521+	DC	HL1' 1'	m5
00003F09	00			3522+	DC	HL1' 0'	cc
00003F0A	07			3523+	DC	HL1' 7'	cc failed mask
				3524+V2_92	DC	FD' - 9999999999999999' \	
00003F10	FFDC790D 903F0001			+			binary value for v2 packed decimal
00003F18	FFFFFFFF FFFFFFFF			3525+V3_92	DC	FD' - 1'	binary value for v3 packed decimal
00003F20	E5D4E2D7 40404040			3526+	DC	CL8' VMSP'	instruction name
00003F28	00000010			3527+	DC	A(16)	result length
00003F2C	00003F6C			3528+REA92	DC	A(RE92)	result address
				3529+*			INSTRUCTION UNDER TEST ROUTINE
00003F30				3530+X92	DS	0F	
00003F30	E320 5010 0004		00003F10	3531+	LG	R2, V2_92	convert v2
00003F36	E320 8F4F 002E		0000114F	3532+	CVDG	R2, V2PACKED	
00003F3C	E720 8F4F 0006		0000114F	3533+	VL	V2, V2PACKED	
00003F42	E320 5018 0004		00003F18	3534+	LG	R2, V3_92	convert v3
00003F48	E320 8F5F 002E		0000115F	3535+	CVDG	R2, V3PACKED	
00003F4E	E730 8F5F 0006		0000115F	3536+	VL	V3, V3PACKED	
00003F54	E612 3019 F079			3537+	VMSP	V1, V2, V3, 159, 1	test instruction
00003F5A	E710 8F00 000E		00001100	3538+	VST	V1, V10UTPUT	save result
00003F60	B98D 0020			3539+	EPSW	R2, R0	exptract psw
00003F64	5020 8EE4		000010E4	3540+	ST	R2, CCPSW	to save CC
00003F68	07FB			3541+	BR	R11	return
00003F6C				3542+RE92	DC	0F	
00003F6C				3543+	DROP	R5	
00003F6C	00000000 00000000			3544	DC	XL16' 00000000000000000000000000000000C'	
00003F74	00000000 0000000C						
				3545			
				3546	VRI_F	VMSP, - 9999999999999999, - 1, 135, 1, 2	shamt=7
00003F80				3547+	DS	0FD	
00003F80		00003F80		3548+	USING	*, R5	base for test data and test routine
00003F80	00003FB0			3549+T93	DC	A(X93)	address of test routine
00003F84	005D			3550+	DC	H' 93'	test number
00003F86	00			3551+	DC	X' 00'	
00003F87	87			3552+	DC	HL1' 135'	i4
00003F88	01			3553+	DC	HL1' 1'	m5
00003F89	02			3554+	DC	HL1' 2'	cc
00003F8A	0D			3555+	DC	HL1' 13'	cc failed mask
				3556+V2_93	DC	FD' - 9999999999999999' \	
00003F90	FFDC790D 903F0001			+			binary value for v2 packed decimal
00003F98	FFFFFFFF FFFFFFFF			3557+V3_93	DC	FD' - 1'	binary value for v3 packed decimal
00003FA0	E5D4E2D7 40404040			3558+	DC	CL8' VMSP'	instruction name
00003FA8	00000010			3559+	DC	A(16)	result length
00003FAC	00003FEC			3560+REA93	DC	A(RE93)	result address
				3561+*			INSTRUCTION UNDER TEST ROUTINE
00003FB0				3562+X93	DS	0F	
00003FB0	E320 5010 0004		00003F90	3563+	LG	R2, V2_93	convert v2
00003FB6	E320 8F4F 002E		0000114F	3564+	CVDG	R2, V2PACKED	
00003FBC	E720 8F4F 0006		0000114F	3565+	VL	V2, V2PACKED	
00003FC2	E320 5018 0004		00003F98	3566+	LG	R2, V3_93	convert v3
00003FC8	E320 8F5F 002E		0000115F	3567+	CVDG	R2, V3PACKED	
00003FCE	E730 8F5F 0006		0000115F	3568+	VL	V3, V3PACKED	
00003FD4	E612 3018 7079			3569+	VMSP	V1, V2, V3, 135, 1	test instruction



LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
0000408A	0D			3622+	DC	HL1' 13'	cc failed mask
				3623+V2_95	DC	FD' - 9999999999999999'	\
00004090	FE9CBA87 A2760001			+			binary value for v2 packed decimal
00004098	00000000 00000001			3624+V3_95	DC	FD' +1'	binary value for v3 packed decimal
000040A0	E5D4E2D7 40404040			3625+	DC	CL8' VMSP'	instruction name
000040A8	00000010			3626+	DC	A(16)	result length
000040AC	000040EC			3627+REA95	DC	A(RE95)	result address
				3628+*			INSTRUCTION UNDER TEST ROUTINE
000040B0				3629+X95	DS	0F	
000040B0	E320 5010 0004		00004090	3630+	LG	R2, V2_95	convert v2
000040B6	E320 8F4F 002E		0000114F	3631+	CVDG	R2, V2PACKED	
000040BC	E720 8F4F 0006		0000114F	3632+	VL	V2, V2PACKED	
000040C2	E320 5018 0004		00004098	3633+	LG	R2, V3_95	convert v3
000040C8	E320 8F5F 002E		0000115F	3634+	CVDG	R2, V3PACKED	
000040CE	E730 8F5F 0006		0000115F	3635+	VL	V3, V3PACKED	
000040D4	E612 3098 1079			3636+	VMSP	V1, V2, V3, 129, 9	test instruction
000040DA	E710 8F00 000E		00001100	3637+	VST	V1, V10OUTPUT	save result
000040E0	B98D 0020			3638+	EPSW	R2, R0	exptract psw
000040E4	5020 8EE4		000010E4	3639+	ST	R2, CCPSW	to save CC
000040E8	07FB			3640+	BR	R11	return
000040EC				3641+RE95	DC	0F	
000040EC				3642+	DROP	R5	
000040EC	00000000 00000009			3643	DC	XL16' 00000000000000009999999999999999C'	
000040F4	99999999 9999999C						
				3644			
				3645 *			shamt=7
				3646 *			m5=13(P2=1, P3=1)
				3647	VRI_F	VMSP, - 9999999999999999, - 1000000000000000, 135, 13, 2	
00004100				3648+	DS	0FD	
00004100		00004100		3649+	USING	*, R5	base for test data and test routine
00004100	00004130			3650+T96	DC	A(X96)	address of test routine
00004104	0060			3651+	DC	H' 96'	test number
00004106	00			3652+	DC	X' 00'	
00004107	87			3653+	DC	HL1' 135'	i4
00004108	0D			3654+	DC	HL1' 13'	m5
00004109	02			3655+	DC	HL1' 2'	cc
0000410A	0D			3656+	DC	HL1' 13'	cc failed mask
				3657+V2_96	DC	FD' - 9999999999999999'	\
00004110	FE9CBA87 A2760001			+			binary value for v2 packed decimal
				3658+V3_96	DC	FD' - 1000000000000000'	\
				+			binary value for v3 packed decimal
00004118	FFDC790D 903F0000						
00004120	E5D4E2D7 40404040			3659+	DC	CL8' VMSP'	instruction name
00004128	00000010			3660+	DC	A(16)	result length
0000412C	0000416C			3661+REA96	DC	A(RE96)	result address
				3662+*			INSTRUCTION UNDER TEST ROUTINE
00004130				3663+X96	DS	0F	
00004130	E320 5010 0004		00004110	3664+	LG	R2, V2_96	convert v2
00004136	E320 8F4F 002E		0000114F	3665+	CVDG	R2, V2PACKED	
0000413C	E720 8F4F 0006		0000114F	3666+	VL	V2, V2PACKED	
00004142	E320 5018 0004		00004118	3667+	LG	R2, V3_96	convert v3
00004148	E320 8F5F 002E		0000115F	3668+	CVDG	R2, V3PACKED	
0000414E	E730 8F5F 0006		0000115F	3669+	VL	V3, V3PACKED	
00004154	E612 30D8 7079			3670+	VMSP	V1, V2, V3, 135, 13	test instruction
0000415A	E710 8F00 000E		00001100	3671+	VST	V1, V10OUTPUT	save result
00004160	B98D 0020			3672+	EPSW	R2, R0	exptract psw
00004164	5020 8EE4		000010E4	3673+	ST	R2, CCPSW	to save CC



[illegible]

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00004220	E5D4E2D7 40404040			3726+	DC	CL8' VMSP'	instruction name
00004228	00000010			3727+	DC	A(16)	result length
0000422C	0000426C			3728+REA98	DC	A(RE98)	result address
				3729+*			INSTRUCTION UNDER TEST ROUTINE
00004230				3730+X98	DS	0F	
00004230	E320 5010 0004		00004210	3731+	LG	R2, V2_98	convert v2
00004236	E320 8F4F 002E		0000114F	3732+	CVDG	R2, V2PACKED	
0000423C	E720 8F4F 0006		0000114F	3733+	VL	V2, V2PACKED	
00004242	E320 5018 0004		00004218	3734+	LG	R2, V3_98	convert v3
00004248	E320 8F5F 002E		0000115F	3735+	CVDG	R2, V3PACKED	
0000424E	E730 8F5F 0006		0000115F	3736+	VL	V3, V3PACKED	
00004254	E612 30D8 4079			3737+	VMSP	V1, V2, V3, 132, 13	test instruction
0000425A	E710 8F00 000E		00001100	3738+	VST	V1, V10OUTPUT	save result
00004260	B98D 0020			3739+	EPSW	R2, R0	exptract psw
00004264	5020 8EE4		000010E4	3740+	ST	R2, CCPSW	to save CC
00004268	07FB			3741+	BR	R11	return
0000426C				3742+RE98	DC	0F	
0000426C				3743+	DROP	R5	
0000426C	00000000 00000000			3744	DC	XL16' 00000000000000000000099999999999C'	
00004274	00099999 9999999C						
				3745			
				3746 *			shamt=31
				3747 *			m5=3(P1=1)
				3748	VRI_F	VMSP, +9999999999999999, +1000000000000000, 159, 3, 2	
00004280				3749+	DS	0FD	
00004280		00004280		3750+	USING	*, R5	base for test data and test routine
00004280	000042B0			3751+T99	DC	A(X99)	address of test routine
00004284	0063			3752+	DC	H' 99'	test number
00004286	00			3753+	DC	X' 00'	
00004287	9F			3754+	DC	HL1' 159'	i4
00004288	03			3755+	DC	HL1' 3'	m5
00004289	02			3756+	DC	HL1' 2'	cc
0000428A	0D			3757+	DC	HL1' 13'	cc failed mask
				3758+V2_99	DC	FD' +9999999999999999' \	
00004290	01634578 5D89FFFF			+			binary value for v2 packed decimal
				3759+V3_99	DC	FD' +1000000000000000' \	
				+			binary value for v3 packed decimal
00004298	002386F2 6FC10000			3760+	DC	CL8' VMSP'	instruction name
000042A0	E5D4E2D7 40404040			3761+	DC	A(16)	result length
000042A8	00000010			3762+REA99	DC	A(RE99)	result address
000042AC	000042EC			3763+*			INSTRUCTION UNDER TEST ROUTINE
000042B0				3764+X99	DS	0F	
000042B0	E320 5010 0004		00004290	3765+	LG	R2, V2_99	convert v2
000042B6	E320 8F4F 002E		0000114F	3766+	CVDG	R2, V2PACKED	
000042BC	E720 8F4F 0006		0000114F	3767+	VL	V2, V2PACKED	
000042C2	E320 5018 0004		00004298	3768+	LG	R2, V3_99	convert v3
000042C8	E320 8F5F 002E		0000115F	3769+	CVDG	R2, V3PACKED	
000042CE	E730 8F5F 0006		0000115F	3770+	VL	V3, V3PACKED	
000042D4	E612 3039 F079			3771+	VMSP	V1, V2, V3, 159, 3	test instruction
000042DA	E710 8F00 000E		00001100	3772+	VST	V1, V10OUTPUT	save result
000042E0	B98D 0020			3773+	EPSW	R2, R0	exptract psw
000042E4	5020 8EE4		000010E4	3774+	ST	R2, CCPSW	to save CC
000042E8	07FB			3775+	BR	R11	return
000042EC				3776+RE99	DC	0F	
000042EC				3777+	DROP	R5	
000042EC	00000000 00000000			3778	DC	XL16' 000000000000000000000000000099F'	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	
000042F4	00000000 0000099F			3779	
				3780 *	-----
				3781 * VSDP	- VECTOR SHIFT AND DIVIDE DECIMAL
				3782 *	-----
				3783 *	VSDP simple + CC checks
				3784 *	i4=128(iom=1 & shamt=0)
				3785 *	i4=129(iom=1 & shamt=1)
				3786 *	i4=132(iom=1 & shamt=4)
				3787 *	i4=135(iom=1 & shamt=7)
				3788 *	i4=142(iom=1 & shamt=14)
				3789 *	i4=159(iom=1 & shamt=31)
				3790	
				3791	VRI_F VSDP, +10, +12, 128, 1, 0 shamt=0
00004300				3792+	DS OFD
00004300		00004300		3793+	USING *, R5 base for test data and test routine
00004300	00004330			3794+T100	DC A(X100) address of test routine
00004304	0064			3795+	DC H' 100' test number
00004306	00			3796+	DC X' 00'
00004307	80			3797+	DC HL1' 128' i4
00004308	01			3798+	DC HL1' 1' m5
00004309	00			3799+	DC HL1' 0' cc
0000430A	07			3800+	DC HL1' 7' cc failed mask
00004310	00000000 0000000A			3801+V2_100	DC FD' +10' binary value for v2 packed decimal
00004318	00000000 0000000C			3802+V3_100	DC FD' +12' binary value for v3 packed decimal
00004320	E5E2C4D7 40404040			3803+	DC CL8' VSDP' instruction name
00004328	00000010			3804+	DC A(16) result length
0000432C	0000436C			3805+REA100	DC A(RE100) result address
				3806+*	INSTRUCTION UNDER TEST ROUTINE
00004330				3807+X100	DS OF
00004330	E320 5010 0004		00004310	3808+	LG R2, V2_100 convert v2
00004336	E320 8F4F 002E		0000114F	3809+	CVDG R2, V2PACKED
0000433C	E720 8F4F 0006		0000114F	3810+	VL V2, V2PACKED
00004342	E320 5018 0004		00004318	3811+	LG R2, V3_100 convert v3
00004348	E320 8F5F 002E		0000115F	3812+	CVDG R2, V3PACKED
0000434E	E730 8F5F 0006		0000115F	3813+	VL V3, V3PACKED
00004354	E612 3018 007E			3814+	VSDP V1, V2, V3, 128, 1 test instruction
0000435A	E710 8F00 000E		00001100	3815+	VST V1, V10UTPUT save result
00004360	B98D 0020			3816+	EPSW R2, R0 exptrect psw
00004364	5020 8EE4		000010E4	3817+	ST R2, CCPSW to save CC
00004368	07FB			3818+	BR R11 return
0000436C				3819+RE100	DC OF
0000436C				3820+	DROP R5
0000436C	00000000 00000000			3821	DC XL16' 00000000000000000000000000000000C'
00004374	00000000 0000000C				
				3822	
				3823	VRI_F VSDP, +10, +12, 129, 1, 2 shamt=1
00004380				3824+	DS OFD
00004380		00004380		3825+	USING *, R5 base for test data and test routine
00004380	000043B0			3826+T101	DC A(X101) address of test routine
00004384	0065			3827+	DC H' 101' test number
00004386	00			3828+	DC X' 00'
00004387	81			3829+	DC HL1' 129' i4
00004388	01			3830+	DC HL1' 1' m5
00004389	02			3831+	DC HL1' 2' cc
0000438A	0D			3832+	DC HL1' 13' cc failed mask

[illegible]



LOC	OBJECT	CODE	ADDR1	ADDR2	STMT		
					3887	VRI_F	VSDP, +100, - 12, 132, 1, 1
00004480					3888+	DS	OFD
00004480			00004480		3889+	USING	*, R5
00004480	000044B0				3890+T103	DC	A(X103)
00004484	0067				3891+	DC	H' 103'
00004486	00				3892+	DC	X' 00'
00004487	84				3893+	DC	HL1' 132'
00004488	01				3894+	DC	HL1' 1'
00004489	01				3895+	DC	HL1' 1'
0000448A	0B				3896+	DC	HL1' 11'
00004490	00000000	00000064			3897+V2_103	DC	FD' +100'
00004498	FFFFFFFF	FFFFFFF4			3898+V3_103	DC	FD' - 12'
000044A0	E5E2C4D7	40404040			3899+	DC	CL8' VSDP'
000044A8	00000010				3900+	DC	A(16)
000044AC	000044EC				3901+REA103	DC	A(RE103)
					3902+*		
000044B0					3903+X103	DS	OF
000044B0	E320	5010	0004	00004490	3904+	LG	R2, V2_103
000044B6	E320	8F4F	002E	0000114F	3905+	CVDG	R2, V2PACKED
000044BC	E720	8F4F	0006	0000114F	3906+	VL	V2, V2PACKED
000044C2	E320	5018	0004	00004498	3907+	LG	R2, V3_103
000044C8	E320	8F5F	002E	0000115F	3908+	CVDG	R2, V3PACKED
000044CE	E730	8F5F	0006	0000115F	3909+	VL	V3, V3PACKED
000044D4	E612	3018	407E		3910+	VSDP	V1, V2, V3, 132, 1
000044DA	E710	8F00	000E	00001100	3911+	VST	V1, V10UTPUT
000044E0	B98D	0020			3912+	EPSW	R2, R0
000044E4	5020	8EE4		000010E4	3913+	ST	R2, CCPSW
000044E8	07FB				3914+	BR	R11
000044EC					3915+RE103	DC	OF
000044EC					3916+	DROP	R5
000044EC	00000000	00000000			3917	DC	XL16' 000000000000000000000000083333D'
000044F4	00000000	0083333D					
					3918		
					3919	VRI_F	VSDP, +100, - 12, 128, 1, 1
00004500					3920+	DS	OFD
00004500			00004500		3921+	USING	*, R5
00004500	00004530				3922+T104	DC	A(X104)
00004504	0068				3923+	DC	H' 104'
00004506	00				3924+	DC	X' 00'
00004507	80				3925+	DC	HL1' 128'
00004508	01				3926+	DC	HL1' 1'
00004509	01				3927+	DC	HL1' 1'
0000450A	0B				3928+	DC	HL1' 11'
00004510	00000000	00000064			3929+V2_104	DC	FD' +100'
00004518	FFFFFFFF	FFFFFFF4			3930+V3_104	DC	FD' - 12'
00004520	E5E2C4D7	40404040			3931+	DC	CL8' VSDP'
00004528	00000010				3932+	DC	A(16)
0000452C	0000456C				3933+REA104	DC	A(RE104)
					3934+*		
00004530					3935+X104	DS	OF
00004530	E320	5010	0004	00004510	3936+	LG	R2, V2_104
00004536	E320	8F4F	002E	0000114F	3937+	CVDG	R2, V2PACKED
0000453C	E720	8F4F	0006	0000114F	3938+	VL	V2, V2PACKED
00004542	E320	5018	0004	00004518	3939+	LG	R2, V3_104
00004548	E320	8F5F	002E	0000115F	3940+	CVDG	R2, V3PACKED
0000454E	E730	8F5F	0006	0000115F	3941+	VL	V3, V3PACKED



LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00004628	00000010			3996+	DC	A(16)	result length
0000462C	0000466C			3997+REA106	DC	A(RE106)	result address
				3998+*			INSTRUCTION UNDER TEST ROUTINE
00004630				3999+X106	DS	0F	
00004630	E320 5010 0004		00004610	4000+	LG	R2, V2_106	convert v2
00004636	E320 8F4F 002E		0000114F	4001+	CVDG	R2, V2PACKED	
0000463C	E720 8F4F 0006		0000114F	4002+	VL	V2, V2PACKED	
00004642	E320 5018 0004		00004618	4003+	LG	R2, V3_106	convert v3
00004648	E320 8F5F 002E		0000115F	4004+	CVDG	R2, V3PACKED	
0000464E	E730 8F5F 0006		0000115F	4005+	VL	V3, V3PACKED	
00004654	E612 3018 707E			4006+	VSDP	V1, V2, V3, 135, 1	test instruction
0000465A	E710 8F00 000E		00001100	4007+	VST	V1, V10UTPUT	save result
00004660	B98D 0020			4008+	EPSW	R2, R0	exptract psw
00004664	5020 8EE4		000010E4	4009+	ST	R2, CCPSW	to save CC
00004668	07FB			4010+	BR	R11	return
0000466C				4011+RE106	DC	0F	
0000466C				4012+	DROP	R5	
0000466C	00000000 00000000			4013	DC	XL16' 000000000000000000000000100000000C'	
00004674	00000010 0000000C						
				4014			
				4015	VRI_F	VSDP, +10000000010, +10, 135, 1, 2	shamt=7
00004680				4016+	DS	0FD	
00004680		00004680		4017+	USING	*, R5	base for test data and test routine
00004680	000046B0			4018+T107	DC	A(X107)	address of test routine
00004684	006B			4019+	DC	H' 107'	test number
00004686	00			4020+	DC	X' 00'	
00004687	87			4021+	DC	HL1' 135'	i4
00004688	01			4022+	DC	HL1' 1'	m5
00004689	02			4023+	DC	HL1' 2'	cc
0000468A	0D			4024+	DC	HL1' 13'	cc failed mask
00004690	00000002 540BE40A			4025+V2_107	DC	FD' +10000000010'	binary value for v2 packed decimal
00004698	00000000 0000000A			4026+V3_107	DC	FD' +10'	binary value for v3 packed decimal
000046A0	E5E2C4D7 40404040			4027+	DC	CL8' VSDP'	instruction name
000046A8	00000010			4028+	DC	A(16)	result length
000046AC	000046EC			4029+REA107	DC	A(RE107)	result address
				4030+*			INSTRUCTION UNDER TEST ROUTINE
000046B0				4031+X107	DS	0F	
000046B0	E320 5010 0004		00004690	4032+	LG	R2, V2_107	convert v2
000046B6	E320 8F4F 002E		0000114F	4033+	CVDG	R2, V2PACKED	
000046BC	E720 8F4F 0006		0000114F	4034+	VL	V2, V2PACKED	
000046C2	E320 5018 0004		00004698	4035+	LG	R2, V3_107	convert v3
000046C8	E320 8F5F 002E		0000115F	4036+	CVDG	R2, V3PACKED	
000046CE	E730 8F5F 0006		0000115F	4037+	VL	V3, V3PACKED	
000046D4	E612 3018 707E			4038+	VSDP	V1, V2, V3, 135, 1	test instruction
000046DA	E710 8F00 000E		00001100	4039+	VST	V1, V10UTPUT	save result
000046E0	B98D 0020			4040+	EPSW	R2, R0	exptract psw
000046E4	5020 8EE4		000010E4	4041+	ST	R2, CCPSW	to save CC
000046E8	07FB			4042+	BR	R11	return
000046EC				4043+RE107	DC	0F	
000046EC				4044+	DROP	R5	
000046EC	00000000 00000010			4045	DC	XL16' 000000000000000010000000010000000C'	
000046F4	00000001 0000000C						
				4046			
				4047 * VSDP larger #'s			
				4048	VRI_F	VSDP, +9999999999999999, +1, 132, 1, 2	shamt=4
00004700				4049+	DS	0FD	





LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
000047D4	E612 3018 007E			4103+	VSDP	V1, V2, V3, 128, 1	test instruction
000047DA	E710 8F00 000E		00001100	4104+	VST	V1, V10OUTPUT	save result
000047E0	B98D 0020			4105+	EPSW	R2, R0	exptract psw
000047E4	5020 8EE4		000010E4	4106+	ST	R2, CCPSW	to save CC
000047E8	07FB			4107+	BR	R11	return
000047EC				4108+RE109	DC	0F	
000047EC				4109+	DROP	R5	
000047EC	00000000 00000000			4110	DC	XL16' 0000000000000000009999999999999D'	
000047F4	09999999 9999999D						
				4111			
				4112	VRI_F	VSDP, - 9999999999999999, - 1, 128, 1, 2	shamt=0
00004800				4113+	DS	0FD	
00004800		00004800		4114+	USING	*, R5	base for test data and test routine
00004800	00004830			4115+T110	DC	A(X110)	address of test routine
00004804	006E			4116+	DC	H' 110'	test number
00004806	00			4117+	DC	X' 00'	
00004807	80			4118+	DC	HL1' 128'	i4
00004808	01			4119+	DC	HL1' 1'	m5
00004809	02			4120+	DC	HL1' 2'	cc
0000480A	0D			4121+	DC	HL1' 13'	cc failed mask
				4122+V2_110	DC	FD' - 9999999999999999' \	
00004810	FFDC790D 903F0001			+			binary value for v2 packed decimal
00004818	FFFFFFFF FFFFFFFF			4123+V3_110	DC	FD' - 1'	binary value for v3 packed decimal
00004820	E5E2C4D7 40404040			4124+	DC	CL8' VSDP'	instruction name
00004828	00000010			4125+	DC	A(16)	result length
0000482C	0000486C			4126+REA110	DC	A(RE110)	result address
				4127+*			INSTRUCTION UNDER TEST ROUTINE
00004830				4128+X110	DS	0F	
00004830	E320 5010 0004		00004810	4129+	LG	R2, V2_110	convert v2
00004836	E320 8F4F 002E		0000114F	4130+	CVDG	R2, V2PACKED	
0000483C	E720 8F4F 0006		0000114F	4131+	VL	V2, V2PACKED	
00004842	E320 5018 0004		00004818	4132+	LG	R2, V3_110	convert v3
00004848	E320 8F5F 002E		0000115F	4133+	CVDG	R2, V3PACKED	
0000484E	E730 8F5F 0006		0000115F	4134+	VL	V3, V3PACKED	
00004854	E612 3018 007E			4135+	VSDP	V1, V2, V3, 128, 1	test instruction
0000485A	E710 8F00 000E		00001100	4136+	VST	V1, V10OUTPUT	save result
00004860	B98D 0020			4137+	EPSW	R2, R0	exptract psw
00004864	5020 8EE4		000010E4	4138+	ST	R2, CCPSW	to save CC
00004868	07FB			4139+	BR	R11	return
0000486C				4140+RE110	DC	0F	
0000486C				4141+	DROP	R5	
0000486C	00000000 00000009			4142	DC	XL16' 0000000000000000009999999999999C'	
00004874	99999999 9999999C						
				4143			
				4144	VRI_F	VSDP, - 9999999999999999, - 1, 142, 1, 2	shamt=14
00004880				4145+	DS	0FD	
00004880		00004880		4146+	USING	*, R5	base for test data and test routine
00004880	000048B0			4147+T111	DC	A(X111)	address of test routine
00004884	006F			4148+	DC	H' 111'	test number
00004886	00			4149+	DC	X' 00'	
00004887	8E			4150+	DC	HL1' 142'	i4
00004888	01			4151+	DC	HL1' 1'	m5
00004889	02			4152+	DC	HL1' 2'	cc
0000488A	0D			4153+	DC	HL1' 13'	cc failed mask
				4154+V2_111	DC	FD' - 9999999999999999' \	
00004890	FFDC790D 903F0001			+			binary value for v2 packed decimal

LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
00004898	FFFFFFFF FFFFFFFF			4155+V3_111	DC	FD' - 1'
000048A0	E5E2C4D7 40404040			4156+	DC	CL8' VSDP'
000048A8	00000010			4157+	DC	A(16)
000048AC	000048EC			4158+REA111	DC	A(RE111)
				4159+*		INSTRUCTION UNDER TEST ROUTINE
000048B0				4160+X111	DS	OF
000048B0	E320 5010 0004		00004890	4161+	LG	R2, V2_111
000048B6	E320 8F4F 002E		0000114F	4162+	CVDG	R2, V2PACKED
000048BC	E720 8F4F 0006		0000114F	4163+	VL	V2, V2PACKED
000048C2	E320 5018 0004		00004898	4164+	LG	R2, V3_111
000048C8	E320 8F5F 002E		0000115F	4165+	CVDG	R2, V3PACKED
000048CE	E730 8F5F 0006		0000115F	4166+	VL	V3, V3PACKED
000048D4	E612 3018 E07E			4167+	VSDP	V1, V2, V3, 142, 1
000048DA	E710 8F00 000E		00001100	4168+	VST	V1, V10OUTPUT
000048E0	B98D 0020			4169+	EPSW	R2, R0
000048E4	5020 8EE4		000010E4	4170+	ST	R2, CCPSW
000048E8	07FB			4171+	BR	R11
000048EC				4172+RE111	DC	OF
000048EC				4173+	DROP	R5
000048EC	09999999 99999999			4174	DC	XL16' 099999999999999900000000000000C'
000048F4	90000000 0000000C					
				4175		
				4176	VRI_F	VSDP, +99999999999999, +1234, 129, 1, 2
00004900				4177+	DS	OFD
00004900		00004900		4178+	USING	*, R5
00004900	00004930			4179+T112	DC	A(X112)
00004904	0070			4180+	DC	H' 112'
00004906	00			4181+	DC	X' 00'
00004907	81			4182+	DC	HL1' 129'
00004908	01			4183+	DC	HL1' 1'
00004909	02			4184+	DC	HL1' 2'
0000490A	0D			4185+	DC	HL1' 13'
				4186+V2_112	DC	FD' +99999999999999' \
00004910	00000918 4E729FFF			+		binary value for v2 packed decimal
00004918	00000000 000004D2			4187+V3_112	DC	FD' +1234'
00004920	E5E2C4D7 40404040			4188+	DC	CL8' VSDP'
00004928	00000010			4189+	DC	A(16)
0000492C	0000496C			4190+REA112	DC	A(RE112)
				4191+*		INSTRUCTION UNDER TEST ROUTINE
00004930				4192+X112	DS	OF
00004930	E320 5010 0004		00004910	4193+	LG	R2, V2_112
00004936	E320 8F4F 002E		0000114F	4194+	CVDG	R2, V2PACKED
0000493C	E720 8F4F 0006		0000114F	4195+	VL	V2, V2PACKED
00004942	E320 5018 0004		00004918	4196+	LG	R2, V3_112
00004948	E320 8F5F 002E		0000115F	4197+	CVDG	R2, V3PACKED
0000494E	E730 8F5F 0006		0000115F	4198+	VL	V3, V3PACKED
00004954	E612 3018 107E			4199+	VSDP	V1, V2, V3, 129, 1
0000495A	E710 8F00 000E		00001100	4200+	VST	V1, V10OUTPUT
00004960	B98D 0020			4201+	EPSW	R2, R0
00004964	5020 8EE4		000010E4	4202+	ST	R2, CCPSW
00004968	07FB			4203+	BR	R11
0000496C				4204+RE112	DC	OF
0000496C				4205+	DROP	R5
0000496C	00000000 00000000			4206	DC	XL16' 0000000000000000000000081037277147C'
00004974	00008103 7277147C					

LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
				4208	VRI_F VSDP, +999999999999999, +12345, 129, 1, 2	shamt=1
00004980				4209+	DS OFD	
00004980		00004980		4210+	USING *, R5	base for test data and test routine
00004980	000049B0			4211+T113	DC A(X113)	address of test routine
00004984	0071			4212+	DC H' 113'	test number
00004986	00			4213+	DC X' 00'	
00004987	81			4214+	DC HL1' 129'	i4
00004988	01			4215+	DC HL1' 1'	m5
00004989	02			4216+	DC HL1' 2'	cc
0000498A	0D			4217+	DC HL1' 13'	cc failed mask
				4218+V2_113	DC FD' +999999999999999' \	
00004990	00038D7E A4C67FFF			+		binary value for v2 packed decimal
00004998	00000000 00003039			4219+V3_113	DC FD' +12345'	binary value for v3 packed decimal
000049A0	E5E2C4D7 40404040			4220+	DC CL8' VSDP'	instruction name
000049A8	00000010			4221+	DC A(16)	result length
000049AC	000049EC			4222+REA113	DC A(RE113)	result address
				4223+*		INSTRUCTION UNDER TEST ROUTINE
000049B0				4224+X113	DS OF	
000049B0	E320 5010 0004		00004990	4225+	LG R2, V2_113	convert v2
000049B6	E320 8F4F 002E		0000114F	4226+	CVDG R2, V2PACKED	
000049BC	E720 8F4F 0006		0000114F	4227+	VL V2, V2PACKED	
000049C2	E320 5018 0004		00004998	4228+	LG R2, V3_113	convert v3
000049C8	E320 8F5F 002E		0000115F	4229+	CVDG R2, V3PACKED	
000049CE	E730 8F5F 0006		0000115F	4230+	VL V3, V3PACKED	
000049D4	E612 3018 107E			4231+	VSDP V1, V2, V3, 129, 1	test instruction
000049DA	E710 8F00 000E		00001100	4232+	VST V1, V10UTPUT	save result
000049E0	B98D 0020			4233+	EPSW R2, R0	exptract psw
000049E4	5020 8EE4		000010E4	4234+	ST R2, CCPSW	to save CC
000049E8	07FB			4235+	BR R11	return
000049EC				4236+RE113	DC OF	
000049EC				4237+	DROP R5	
000049EC	00000000 00000000			4238	DC XL16' 000000000000000000000810044552450C'	
000049F4	00081004 4552450C					
				4239		
				4240 *	VSDP larger #'s	CS=1 for all m5
				4241 *	check forced positive	
				4242 *		
				4243	VRI_F VSDP, - 999999999999999, +1, 129, 9, 2	shamt=1 m5=9(P2=1)
00004A00				4244+	DS OFD	
00004A00		00004A00		4245+	USING *, R5	base for test data and test routine
00004A00	00004A30			4246+T114	DC A(X114)	address of test routine
00004A04	0072			4247+	DC H' 114'	test number
00004A06	00			4248+	DC X' 00'	
00004A07	81			4249+	DC HL1' 129'	i4
00004A08	09			4250+	DC HL1' 9'	m5
00004A09	02			4251+	DC HL1' 2'	cc
00004A0A	0D			4252+	DC HL1' 13'	cc failed mask
				4253+V2_114	DC FD' - 999999999999999' \	
00004A10	FE9CBA87 A2760001			+		binary value for v2 packed decimal
00004A18	00000000 00000001			4254+V3_114	DC FD' +1'	binary value for v3 packed decimal
00004A20	E5E2C4D7 40404040			4255+	DC CL8' VSDP'	instruction name
00004A28	00000010			4256+	DC A(16)	result length
00004A2C	00004A6C			4257+REA114	DC A(RE114)	result address
				4258+*		INSTRUCTION UNDER TEST ROUTINE
00004A30				4259+X114	DS OF	
00004A30	E320 5010 0004		00004A10	4260+	LG R2, V2_114	convert v2

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00004A36	E320 8F4F 002E		0000114F	4261+	CVDG	R2, V2PACKED	
00004A3C	E720 8F4F 0006		0000114F	4262+	VL	V2, V2PACKED	
00004A42	E320 5018 0004		00004A18	4263+	LG	R2, V3_114	convert v3
00004A48	E320 8F5F 002E		0000115F	4264+	CVDG	R2, V3PACKED	
00004A4E	E730 8F5F 0006		0000115F	4265+	VL	V3, V3PACKED	
00004A54	E612 3098 107E			4266+	VSDP	V1, V2, V3, 129, 9	test instruction
00004A5A	E710 8F00 000E		00001100	4267+	VST	V1, V10UTPUT	save result
00004A60	B98D 0020			4268+	EPSW	R2, R0	exptract psw
00004A64	5020 8EE4		000010E4	4269+	ST	R2, CCPSW	to save CC
00004A68	07FB			4270+	BR	R11	return
00004A6C				4271+RE114	DC	0F	
00004A6C				4272+	DROP	R5	
00004A6C	00000000 00000999			4273	DC	XL16' 00000000000000999999999999999999C'	
00004A74	99999999 9999990C						
				4274			
				4275 *			shamt=3
				4276	VRI_F	VSDP, +9999999999999999, - 1000, 131, 13, 2	m5=13(P2=1, P3=1)
00004A80				4277+	DS	0FD	
00004A80		00004A80		4278+	USING	*, R5	base for test data and test routine
00004A80	00004AB0			4279+T115	DC	A(X115)	address of test routine
00004A84	0073			4280+	DC	H' 115'	test number
00004A86	00			4281+	DC	X' 00'	
00004A87	83			4282+	DC	HL1' 131'	i4
00004A88	0D			4283+	DC	HL1' 13'	m5
00004A89	02			4284+	DC	HL1' 2'	cc
00004A8A	0D			4285+	DC	HL1' 13'	cc failed mask
				4286+V2_115	DC	FD' +9999999999999999' \	
00004A90	01634578 5D89FFFF			+			binary value for v2 packed decimal
00004A98	FFFFFFFF FFFFC18			4287+V3_115	DC	FD' - 1000'	binary value for v3 packed decimal
00004AA0	E5E2C4D7 40404040			4288+	DC	CL8' VSDP'	instruction name
00004AA8	00000010			4289+	DC	A(16)	result length
00004AAC	00004AEC			4290+REA115	DC	A(RE115)	result address
				4291+*			INSTRUCTION UNDER TEST ROUTINE
00004AB0				4292+X115	DS	0F	
00004AB0	E320 5010 0004		00004A90	4293+	LG	R2, V2_115	convert v2
00004AB6	E320 8F4F 002E		0000114F	4294+	CVDG	R2, V2PACKED	
00004ABC	E720 8F4F 0006		0000114F	4295+	VL	V2, V2PACKED	
00004AC2	E320 5018 0004		00004A98	4296+	LG	R2, V3_115	convert v3
00004AC8	E320 8F5F 002E		0000115F	4297+	CVDG	R2, V3PACKED	
00004ACE	E730 8F5F 0006		0000115F	4298+	VL	V3, V3PACKED	
00004AD4	E612 30D8 307E			4299+	VSDP	V1, V2, V3, 131, 13	test instruction
00004ADA	E710 8F00 000E		00001100	4300+	VST	V1, V10UTPUT	save result
00004AE0	B98D 0020			4301+	EPSW	R2, R0	exptract psw
00004AE4	5020 8EE4		000010E4	4302+	ST	R2, CCPSW	to save CC
00004AE8	07FB			4303+	BR	R11	return
00004AEC				4304+RE115	DC	0F	
00004AEC				4305+	DROP	R5	
00004AEC	00000000 00000099			4306	DC	XL16' 00000000000000009999999999999999C'	
00004AF4	99999999 9999999C						
				4307			
				4308 *			shamt=3
				4309	VRI_F	VSDP, - 9999999999999999, - 1, 131, 3, 2	m5=3(P1=1)
00004B00				4310+	DS	0FD	
00004B00		00004B00		4311+	USING	*, R5	base for test data and test routine
00004B00	00004B30			4312+T116	DC	A(X116)	address of test routine
00004B04	0074			4313+	DC	H' 116'	test number



LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00004B06	00			4314+	DC	X' 00'	
00004B07	83			4315+	DC	HL1' 131'	i4
00004B08	03			4316+	DC	HL1' 3'	m5
00004B09	02			4317+	DC	HL1' 2'	cc
00004B0A	0D			4318+	DC	HL1' 13'	cc failed mask
				4319+V2_116	DC	FD' - 9999999999999999'	\
00004B10	FFDC790D 903F0001			+			binary value for v2 packed decimal
00004B18	FFFFFFFF FFFFFFFF			4320+V3_116	DC	FD' - 1'	binary value for v3 packed decimal
00004B20	E5E2C4D7 40404040			4321+	DC	CL8' VSDP'	instruction name
00004B28	00000010			4322+	DC	A(16)	result length
00004B2C	00004B6C			4323+REA116	DC	A(RE116)	result address
				4324+*			INSTRUCTION UNDER TEST ROUTINE
00004B30				4325+X116	DS	0F	
00004B30	E320 5010 0004		00004B10	4326+	LG	R2, V2_116	convert v2
00004B36	E320 8F4F 002E		0000114F	4327+	CVDG	R2, V2PACKED	
00004B3C	E720 8F4F 0006		0000114F	4328+	VL	V2, V2PACKED	
00004B42	E320 5018 0004		00004B18	4329+	LG	R2, V3_116	convert v3
00004B48	E320 8F5F 002E		0000115F	4330+	CVDG	R2, V3PACKED	
00004B4E	E730 8F5F 0006		0000115F	4331+	VL	V3, V3PACKED	
00004B54	E612 3038 307E			4332+	VSDP	V1, V2, V3, 131, 3	test instruction
00004B5A	E710 8F00 000E		00001100	4333+	VST	V1, V10UTPUT	save result
00004B60	B98D 0020			4334+	EPSW	R2, R0	exptract psw
00004B64	5020 8EE4		000010E4	4335+	ST	R2, CCPSW	to save CC
00004B68	07FB			4336+	BR	R11	return
00004B6C				4337+RE116	DC	0F	
00004B6C				4338+	DROP	R5	
00004B6C	00000000 00009999			4339	DC	XL16' 0000000000000999999999999999000F'	
00004B74	99999999 9999000F						
				4340			
				4341 *			shamt=7
				4342 *			m5=13(P2=1, P3=1)
				4343	VRI_F	VSDP, +9999999999999999, - 1, 135, 13, 2	
00004B80				4344+	DS	0FD	
00004B80		00004B80		4345+	USING	*, R5	base for test data and test routine
00004B80	00004BB0			4346+T117	DC	A(X117)	address of test routine
00004B84	0075			4347+	DC	H' 117'	test number
00004B86	00			4348+	DC	X' 00'	
00004B87	87			4349+	DC	HL1' 135'	i4
00004B88	0D			4350+	DC	HL1' 13'	m5
00004B89	02			4351+	DC	HL1' 2'	cc
00004B8A	0D			4352+	DC	HL1' 13'	cc failed mask
				4353+V2_117	DC	FD' +9999999999999999'	\
00004B90	002386F2 6FC0FFFF			+			binary value for v2 packed decimal
00004B98	FFFFFFFF FFFFFFFF			4354+V3_117	DC	FD' - 1'	binary value for v3 packed decimal
00004BA0	E5E2C4D7 40404040			4355+	DC	CL8' VSDP'	instruction name
00004BA8	00000010			4356+	DC	A(16)	result length
00004BAC	00004BEC			4357+REA117	DC	A(RE117)	result address
				4358+*			INSTRUCTION UNDER TEST ROUTINE
00004BB0				4359+X117	DS	0F	
00004BB0	E320 5010 0004		00004B90	4360+	LG	R2, V2_117	convert v2
00004BB6	E320 8F4F 002E		0000114F	4361+	CVDG	R2, V2PACKED	
00004BBC	E720 8F4F 0006		0000114F	4362+	VL	V2, V2PACKED	
00004BC2	E320 5018 0004		00004B98	4363+	LG	R2, V3_117	convert v3
00004BC8	E320 8F5F 002E		0000115F	4364+	CVDG	R2, V3PACKED	
00004BCE	E730 8F5F 0006		0000115F	4365+	VL	V3, V3PACKED	
00004BD4	E612 30D8 707E			4366+	VSDP	V1, V2, V3, 135, 13	test instruction

LOC	OBJECT CODE		ADDR1	ADDR2	STMT				
00004BDA	E710	8F00	000E		00001100	4367+	VST	V1, V10OUTPUT	save result
00004BE0	B98D	0020				4368+	EPSW	R2, R0	expract psw
00004BE4	5020	8EE4			000010E4	4369+	ST	R2, CCPSW	to save CC
00004BE8	07FB					4370+	BR	R11	return
00004BEC						4371+RE117	DC	OF	
00004BEC						4372+	DROP	R5	
00004BEC	00000000	99999999				4373	DC	XL16' 00000000999999999999999900000000C'	
00004BF4	99999999	0000000C							
						4374			
						4375 *	shamt=14		
						4376	VRI_F	VSDP, +99999999999999, +3, 142, 3, 2	m5=3(P1=1)
00004C00						4377+	DS	OFD	
00004C00	00004C00					4378+	USING	*, R5	base for test data and test routine
00004C00	00004C30					4379+T118	DC	A(X118)	address of test routine
00004C04	0076					4380+	DC	H' 118'	test number
00004C06	00					4381+	DC	X' 00'	
00004C07	8E					4382+	DC	HL1' 142'	i4
00004C08	03					4383+	DC	HL1' 3'	m5
00004C09	02					4384+	DC	HL1' 2'	cc
00004C0A	0D					4385+	DC	HL1' 13'	cc failed mask
						4386+V2_118	DC	FD' +99999999999999'	\
00004C10	00000918	4E729FFF				+	binary value for v2 packed decimal		
00004C18	00000000	00000003				4387+V3_118	DC	FD' +3'	binary value for v3 packed decimal
00004C20	E5E2C4D7	40404040				4388+	DC	CL8' VSDP'	instruction name
00004C28	00000010					4389+	DC	A(16)	result length
00004C2C	00004C6C					4390+REA118	DC	A(RE118)	result address
						4391+*	INSTRUCTION UNDER TEST ROUTINE		
00004C30						4392+X118	DS	OF	
00004C30	E320	5010	0004		00004C10	4393+	LG	R2, V2_118	convert v2
00004C36	E320	8F4F	002E		0000114F	4394+	CVDG	R2, V2PACKED	
00004C3C	E720	8F4F	0006		0000114F	4395+	VL	V2, V2PACKED	
00004C42	E320	5018	0004		00004C18	4396+	LG	R2, V3_118	convert v3
00004C48	E320	8F5F	002E		0000115F	4397+	CVDG	R2, V3PACKED	
00004C4E	E730	8F5F	0006		0000115F	4398+	VL	V3, V3PACKED	
00004C54	E612	3038	E07E			4399+	VSDP	V1, V2, V3, 142, 3	test instruction
00004C5A	E710	8F00	000E		00001100	4400+	VST	V1, V10OUTPUT	save result
00004C60	B98D	0020				4401+	EPSW	R2, R0	expract psw
00004C64	5020	8EE4			000010E4	4402+	ST	R2, CCPSW	to save CC
00004C68	07FB					4403+	BR	R11	return
00004C6C						4404+RE118	DC	OF	
00004C6C						4405+	DROP	R5	
00004C6C	00003333	33333333				4406	DC	XL16' 00003333333333333300000000000000F'	
00004C74	30000000	0000000F							
						4407			
						4408 *	shamt=31		
						4409 *	m5=15(P1=1, P2=1, P3=1)		
						4410	VRI_F	VSDP, - 999999999999999999, - 3, 159, 15, 3	
00004C80						4411+	DS	OFD	
00004C80	00004C80					4412+	USING	*, R5	base for test data and test routine
00004C80	00004CB0					4413+T119	DC	A(X119)	address of test routine
00004C84	0077					4414+	DC	H' 119'	test number
00004C86	00					4415+	DC	X' 00'	
00004C87	9F					4416+	DC	HL1' 159'	i4
00004C88	0F					4417+	DC	HL1' 15'	m5
00004C89	03					4418+	DC	HL1' 3'	cc
00004C8A	0E					4419+	DC	HL1' 14'	cc failed mask

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	
					4420+V2_119	DC FD' - 999999999999999999' \
00004C90	F21F494C	589C0001			+	binary value for v2 packed decimal
00004C98	FFFFFFFF	FFFFFFFFD			4421+V3_119	DC FD' - 3' binary value for v3 packed decimal
00004CA0	E5E2C4D7	40404040			4422+	DC CL8' VSDP' instruction name
00004CA8	00000010				4423+	DC A(16) result length
00004CAC	00004CEC				4424+REA119	DC A(RE119) result address
					4425+*	INSTRUCTION UNDER TEST ROUTINE
00004CB0					4426+X119	DS OF
00004CB0	E320	5010	0004	00004C90	4427+	LG R2, V2_119 convert v2
00004CB6	E320	8F4F	002E	0000114F	4428+	CVDG R2, V2PACKED
00004CBC	E720	8F4F	0006	0000114F	4429+	VL V2, V2PACKED
00004CC2	E320	5018	0004	00004C98	4430+	LG R2, V3_119 convert v3
00004CC8	E320	8F5F	002E	0000115F	4431+	CVDG R2, V3PACKED
00004CCE	E730	8F5F	0006	0000115F	4432+	VL V3, V3PACKED
00004CD4	E612	30F9	F07E		4433+	VSDP V1, V2, V3, 159, 15 test instruction
00004CDA	E710	8F00	000E	00001100	4434+	VST V1, V10UTPUT save result
00004CE0	B98D	0020			4435+	EPSW R2, R0 exptract psw
00004CE4	5020	8EE4		000010E4	4436+	ST R2, CCPSW to save CC
00004CE8	07FB				4437+	BR R11 return
00004CEC					4438+RE119	DC OF
00004CEC					4439+	DROP R5
00004CEC	00000000	00000000			4440	DC XL16' 00000000000000000000000000000000F'
00004CF4	00000000	0000000F				
					4441	
					4442	
00004CFC	00000000				4443	DC F' 0' END OF TABLE
00004D00	00000000				4444	DC F' 0'
					4445 *	
					4446 *	table of pointers to individual load test
					4447 *	
00004D04					4448 E6TESTS	DS OF
					4449	PTTABLE
00004D04					4450+TTABLE	DS OF
00004D04	00001180				4451+	DC A(T1) address of test
00004D08	00001200				4452+	DC A(T2) address of test
00004D0C	00001280				4453+	DC A(T3) address of test
00004D10	00001300				4454+	DC A(T4) address of test
00004D14	00001380				4455+	DC A(T5) address of test
00004D18	00001400				4456+	DC A(T6) address of test
00004D1C	00001480				4457+	DC A(T7) address of test
00004D20	00001500				4458+	DC A(T8) address of test
00004D24	00001580				4459+	DC A(T9) address of test
00004D28	00001600				4460+	DC A(T10) address of test
00004D2C	00001680				4461+	DC A(T11) address of test
00004D30	00001700				4462+	DC A(T12) address of test
00004D34	00001780				4463+	DC A(T13) address of test
00004D38	00001800				4464+	DC A(T14) address of test
00004D3C	00001880				4465+	DC A(T15) address of test
00004D40	00001900				4466+	DC A(T16) address of test
00004D44	00001980				4467+	DC A(T17) address of test
00004D48	00001A00				4468+	DC A(T18) address of test
00004D4C	00001A80				4469+	DC A(T19) address of test
00004D50	00001B00				4470+	DC A(T20) address of test
00004D54	00001B80				4471+	DC A(T21) address of test
00004D58	00001C00				4472+	DC A(T22) address of test
00004D5C	00001C80				4473+	DC A(T23) address of test

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00004D60	00001D00			4474+	DC	A(T24)	address of test
00004D64	00001D80			4475+	DC	A(T25)	address of test
00004D68	00001E00			4476+	DC	A(T26)	address of test
00004D6C	00001E80			4477+	DC	A(T27)	address of test
00004D70	00001F00			4478+	DC	A(T28)	address of test
00004D74	00001F80			4479+	DC	A(T29)	address of test
00004D78	00002000			4480+	DC	A(T30)	address of test
00004D7C	00002080			4481+	DC	A(T31)	address of test
00004D80	00002100			4482+	DC	A(T32)	address of test
00004D84	00002180			4483+	DC	A(T33)	address of test
00004D88	00002200			4484+	DC	A(T34)	address of test
00004D8C	00002280			4485+	DC	A(T35)	address of test
00004D90	00002300			4486+	DC	A(T36)	address of test
00004D94	00002380			4487+	DC	A(T37)	address of test
00004D98	00002400			4488+	DC	A(T38)	address of test
00004D9C	00002480			4489+	DC	A(T39)	address of test
00004DA0	00002500			4490+	DC	A(T40)	address of test
00004DA4	00002580			4491+	DC	A(T41)	address of test
00004DA8	00002600			4492+	DC	A(T42)	address of test
00004DAC	00002680			4493+	DC	A(T43)	address of test
00004DB0	00002700			4494+	DC	A(T44)	address of test
00004DB4	00002780			4495+	DC	A(T45)	address of test
00004DB8	00002800			4496+	DC	A(T46)	address of test
00004DBC	00002880			4497+	DC	A(T47)	address of test
00004DC0	00002900			4498+	DC	A(T48)	address of test
00004DC4	00002980			4499+	DC	A(T49)	address of test
00004DC8	00002A00			4500+	DC	A(T50)	address of test
00004DCC	00002A80			4501+	DC	A(T51)	address of test
00004DD0	00002B00			4502+	DC	A(T52)	address of test
00004DD4	00002B80			4503+	DC	A(T53)	address of test
00004DD8	00002C00			4504+	DC	A(T54)	address of test
00004DDC	00002C80			4505+	DC	A(T55)	address of test
00004DE0	00002D00			4506+	DC	A(T56)	address of test
00004DE4	00002D80			4507+	DC	A(T57)	address of test
00004DE8	00002E00			4508+	DC	A(T58)	address of test
00004DEC	00002E80			4509+	DC	A(T59)	address of test
00004DF0	00002F00			4510+	DC	A(T60)	address of test
00004DF4	00002F80			4511+	DC	A(T61)	address of test
00004DF8	00003000			4512+	DC	A(T62)	address of test
00004DFC	00003080			4513+	DC	A(T63)	address of test
00004E00	00003100			4514+	DC	A(T64)	address of test
00004E04	00003180			4515+	DC	A(T65)	address of test
00004E08	00003200			4516+	DC	A(T66)	address of test
00004E0C	00003280			4517+	DC	A(T67)	address of test
00004E10	00003300			4518+	DC	A(T68)	address of test
00004E14	00003380			4519+	DC	A(T69)	address of test
00004E18	00003400			4520+	DC	A(T70)	address of test
00004E1C	00003480			4521+	DC	A(T71)	address of test
00004E20	00003500			4522+	DC	A(T72)	address of test
00004E24	00003580			4523+	DC	A(T73)	address of test
00004E28	00003600			4524+	DC	A(T74)	address of test
00004E2C	00003680			4525+	DC	A(T75)	address of test
00004E30	00003700			4526+	DC	A(T76)	address of test
00004E34	00003780			4527+	DC	A(T77)	address of test
00004E38	00003800			4528+	DC	A(T78)	address of test
00004E3C	00003880			4529+	DC	A(T79)	address of test



LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00004E40	00003900			4530+	DC	A(T80)	address of test
00004E44	00003980			4531+	DC	A(T81)	address of test
00004E48	00003A00			4532+	DC	A(T82)	address of test
00004E4C	00003A80			4533+	DC	A(T83)	address of test
00004E50	00003B00			4534+	DC	A(T84)	address of test
00004E54	00003B80			4535+	DC	A(T85)	address of test
00004E58	00003C00			4536+	DC	A(T86)	address of test
00004E5C	00003C80			4537+	DC	A(T87)	address of test
00004E60	00003D00			4538+	DC	A(T88)	address of test
00004E64	00003D80			4539+	DC	A(T89)	address of test
00004E68	00003E00			4540+	DC	A(T90)	address of test
00004E6C	00003E80			4541+	DC	A(T91)	address of test
00004E70	00003F00			4542+	DC	A(T92)	address of test
00004E74	00003F80			4543+	DC	A(T93)	address of test
00004E78	00004000			4544+	DC	A(T94)	address of test
00004E7C	00004080			4545+	DC	A(T95)	address of test
00004E80	00004100			4546+	DC	A(T96)	address of test
00004E84	00004180			4547+	DC	A(T97)	address of test
00004E88	00004200			4548+	DC	A(T98)	address of test
00004E8C	00004280			4549+	DC	A(T99)	address of test
00004E90	00004300			4550+	DC	A(T100)	address of test
00004E94	00004380			4551+	DC	A(T101)	address of test
00004E98	00004400			4552+	DC	A(T102)	address of test
00004E9C	00004480			4553+	DC	A(T103)	address of test
00004EA0	00004500			4554+	DC	A(T104)	address of test
00004EA4	00004580			4555+	DC	A(T105)	address of test
00004EA8	00004600			4556+	DC	A(T106)	address of test
00004EAC	00004680			4557+	DC	A(T107)	address of test
00004EB0	00004700			4558+	DC	A(T108)	address of test
00004EB4	00004780			4559+	DC	A(T109)	address of test
00004EB8	00004800			4560+	DC	A(T110)	address of test
00004EBC	00004880			4561+	DC	A(T111)	address of test
00004EC0	00004900			4562+	DC	A(T112)	address of test
00004EC4	00004980			4563+	DC	A(T113)	address of test
00004EC8	00004A00			4564+	DC	A(T114)	address of test
00004ECC	00004A80			4565+	DC	A(T115)	address of test
00004ED0	00004B00			4566+	DC	A(T116)	address of test
00004ED4	00004B80			4567+	DC	A(T117)	address of test
00004ED8	00004C00			4568+	DC	A(T118)	address of test
00004EDC	00004C80			4569+	DC	A(T119)	address of test
				4570+*			
00004EE0	00000000			4571+	DC	A(0)	END OF TABLE
00004EE4	00000000			4572+	DC	A(0)	
				4573			
00004EE8	00000000			4574	DC	F' 0'	END OF TABLE
00004EEC	00000000			4575	DC	F' 0'	

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	
				4577 *****	
				4578 *            Register equates	
				4579 *****	
		00000000	00000001	4581 R0	EQU 0
		00000001	00000001	4582 R1	EQU 1
		00000002	00000001	4583 R2	EQU 2
		00000003	00000001	4584 R3	EQU 3
		00000004	00000001	4585 R4	EQU 4
		00000005	00000001	4586 R5	EQU 5
		00000006	00000001	4587 R6	EQU 6
		00000007	00000001	4588 R7	EQU 7
		00000008	00000001	4589 R8	EQU 8
		00000009	00000001	4590 R9	EQU 9
		0000000A	00000001	4591 R10	EQU 10
		0000000B	00000001	4592 R11	EQU 11
		0000000C	00000001	4593 R12	EQU 12
		0000000D	00000001	4594 R13	EQU 13
		0000000E	00000001	4595 R14	EQU 14
		0000000F	00000001	4596 R15	EQU 15
				4598 *****	
				4599 *            Register equates	
				4600 *****	
		00000000	00000001	4602 V0	EQU 0
		00000001	00000001	4603 V1	EQU 1
		00000002	00000001	4604 V2	EQU 2
		00000003	00000001	4605 V3	EQU 3
		00000004	00000001	4606 V4	EQU 4
		00000005	00000001	4607 V5	EQU 5
		00000006	00000001	4608 V6	EQU 6
		00000007	00000001	4609 V7	EQU 7
		00000008	00000001	4610 V8	EQU 8
		00000009	00000001	4611 V9	EQU 9
		0000000A	00000001	4612 V10	EQU 10
		0000000B	00000001	4613 V11	EQU 11
		0000000C	00000001	4614 V12	EQU 12
		0000000D	00000001	4615 V13	EQU 13
		0000000E	00000001	4616 V14	EQU 14
		0000000F	00000001	4617 V15	EQU 15
		00000010	00000001	4618 V16	EQU 16
		00000011	00000001	4619 V17	EQU 17
		00000012	00000001	4620 V18	EQU 18
		00000013	00000001	4621 V19	EQU 19
		00000014	00000001	4622 V20	EQU 20
		00000015	00000001	4623 V21	EQU 21







SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES													
PRTM5	C	0000104D	2	369	223													
PRTNAME	C	0000102F	8	364	209													
PRTNUM	C	00001014	3	362	207													
R0	U	00000000	1	4581	64	114	117	130	191	225	233	234	260	262	278	281	283	
					285	287	298	578	610	642	674	706	738	771	803	835	869	
					901	933	969	1001	1033	1065	1097	1129	1161	1194	1226	1258	1290	
					1324	1356	1388	1420	1456	1488	1520	1552	1584	1616	1648	1681	1713	
					1745	1777	1809	1843	1876	1908	1940	1973	2009	2041	2073	2105	2137	
					2169	2201	2234	2266	2298	2330	2362	2394	2428	2460	2492	2525	2557	
					2590	2626	2658	2690	2722	2754	2786	2818	2851	2883	2915	2947	2979	
					3011	3045	3077	3109	3142	3174	3206	3249	3281	3313	3345	3377	3409	
					3441	3474	3507	3539	3571	3603	3638	3672	3705	3739	3773	3816	3848	
					3880	3912	3944	3976	4008	4040	4073	4105	4137	4169	4201	4233	4268	
					4301	4334	4368	4401	4435									
R1	U	00000001	1	4582	137	138	139	142	143	155	156	157	162	163	164	165	192	
					226	243	244	292	302									
R10	U	0000000A	1	4591	111	112												
R11	U	0000000B	1	4592	134	135	580	612	644	676	708	740	773	805	837	871	903	
					935	971	1003	1035	1067	1099	1131	1163	1196	1228	1260	1292	1326	
					1358	1390	1422	1458	1490	1522	1554	1586	1618	1650	1683	1715	1747	
					1779	1811	1845	1878	1910	1942	1975	2011	2043	2075	2107	2139	2171	
					2203	2236	2268	2300	2332	2364	2396	2430	2462	2494	2527	2559	2592	
					2628	2660	2692	2724	2756	2788	2820	2853	2885	2917	2949	2981	3013	
					3047	3079	3111	3144	3176	3208	3251	3283	3315	3347	3379	3411	3443	
					3476	3509	3541	3573	3605	3640	3674	3707	3741	3775	3818	3850	3882	
					3914	3946	3978	4010	4042	4075	4107	4139	4171	4203	4235	4270	4303	
					4336	4370	4403	4437										
R12	U	0000000C	1	4593	123	126	146	236										
R13	U	0000000D	1	4594														
R14	U	0000000E	1	4595														
R15	U	0000000F	1	4596	193	227	255	265	266									
R2	U	00000002	1	4583	169	170	177	178	179	184	185	186	203	204	211	212	213	
					218	219	220	260	261	262	279	281	287	288	289	291	298	
					299	570	571	573	574	578	579	602	603	605	606	610	611	
					634	635	637	638	642	643	666	667	669	670	674	675	698	
					699	701	702	706	707	730	731	733	734	738	739	763	764	
					766	767	771	772	795	796	798	799	803	804	827	828	830	
					831	835	836	861	862	864	865	869	870	893	894	896	897	
					901	902	925	926	928	929	933	934	961	962	964	965	969	
					970	993	994	996	997	1001	1002	1025	1026	1028	1029	1033	1034	
					1057	1058	1060	1061	1065	1066	1089	1090	1092	1093	1097	1098	1121	
					1122	1124	1125	1129	1130	1153	1154	1156	1157	1161	1162	1186	1187	
					1189	1190	1194	1195	1218	1219	1221	1222	1226	1227	1250	1251	1253	
					1254	1258	1259	1282	1283	1285	1286	1290	1291	1316	1317	1319	1320	
					1324	1325	1348	1349	1351	1352	1356	1357	1380	1381	1383	1384	1388	
					1389	1412	1413	1415	1416	1420	1421	1448	1449	1451	1452	1456	1457	
					1480	1481	1483	1484	1488	1489	1512	1513	1515	1516	1520	1521	1544	
					1545	1547	1548	1552	1553	1576	1577	1579	1580	1584	1585	1608	1609	
					1611	1612	1616	1617	1640	1641	1643	1644	1648	1649	1673	1674	1676	
					1677	1681	1682	1705	1706	1708	1709	1713	1714	1737	1738	1740	1741	
					1745	1746	1769	1770	1772	1773	1777	1778	1801	1802	1804	1805	1809	
					1810	1835	1836	1838	1839	1843	1844	1868	1869	1871	1872	1876	1877	
					1900	1901	1903	1904	1908	1909	1932	1933	1935	1936	1940	1941	1965	
					1966	1968	1969	1973	1974	2001	2002	2004	2005	2009	2010	2033	2034	
					2036	2037	2041	2042	2065	2066	2068	2069	2073	2074	2097	2098	2100	
					2101	2105	2106	2129	2130	2132	2133	2137	2138	2161	2162	2164	2165	

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES													
						2169	2170	2193	2194	2196	2197	2201	2202	2226	2227	2229	2230	2234
						2235	2258	2259	2261	2262	2266	2267	2290	2291	2293	2294	2298	2299
						2322	2323	2325	2326	2330	2331	2354	2355	2357	2358	2362	2363	2386
						2387	2389	2390	2394	2395	2420	2421	2423	2424	2428	2429	2452	2453
						2455	2456	2460	2461	2484	2485	2487	2488	2492	2493	2517	2518	2520
						2521	2525	2526	2549	2550	2552	2553	2557	2558	2582	2583	2585	2586
						2590	2591	2618	2619	2621	2622	2626	2627	2650	2651	2653	2654	2658
						2659	2682	2683	2685	2686	2690	2691	2714	2715	2717	2718	2722	2723
						2746	2747	2749	2750	2754	2755	2778	2779	2781	2782	2786	2787	2810
						2811	2813	2814	2818	2819	2843	2844	2846	2847	2851	2852	2875	2876
						2878	2879	2883	2884	2907	2908	2910	2911	2915	2916	2939	2940	2942
						2943	2947	2948	2971	2972	2974	2975	2979	2980	3003	3004	3006	3007
						3011	3012	3037	3038	3040	3041	3045	3046	3069	3070	3072	3073	3077
						3078	3101	3102	3104	3105	3109	3110	3134	3135	3137	3138	3142	3143
						3166	3167	3169	3170	3174	3175	3198	3199	3201	3202	3206	3207	3241
						3242	3244	3245	3249	3250	3273	3274	3276	3277	3281	3282	3305	3306
						3308	3309	3313	3314	3337	3338	3340	3341	3345	3346	3369	3370	3372
						3373	3377	3378	3401	3402	3404	3405	3409	3410	3433	3434	3436	3437
						3441	3442	3466	3467	3469	3470	3474	3475	3499	3500	3502	3503	3507
						3508	3531	3532	3534	3535	3539	3540	3563	3564	3566	3567	3571	3572
						3595	3596	3598	3599	3603	3604	3630	3631	3633	3634	3638	3639	3664
						3665	3667	3668	3672	3673	3697	3698	3700	3701	3705	3706	3731	3732
						3734	3735	3739	3740	3765	3766	3768	3769	3773	3774	3808	3809	3811
						3812	3816	3817	3840	3841	3843	3844	3848	3849	3872	3873	3875	3876
						3880	3881	3904	3905	3907	3908	3912	3913	3936	3937	3939	3940	3944
						3945	3968	3969	3971	3972	3976	3977	4000	4001	4003	4004	4008	4009
						4032	4033	4035	4036	4040	4041	4065	4066	4068	4069	4073	4074	4097
						4098	4100	4101	4105	4106	4129	4130	4132	4133	4137	4138	4161	4162
						4164	4165	4169	4170	4193	4194	4196	4197	4201	4202	4225	4226	4228
						4229	4233	4234	4260	4261	4263	4264	4268	4269	4293	4294	4296	4297
						4301	4302	4326	4327	4329	4330	4334	4335	4360	4361	4363	4364	4368
						4369	4393	4394	4396	4397	4401	4402	4427	4428	4430	4431	4435	4436
R3	U	00000003	1	4584														
R4	U	00000004	1	4585														
R5	U	00000005	1	4586	126	127	132	256	264	555	582	587	614	619	646	651	678	
					683	710	715	742	748	775	780	807	812	839	846	873	878	
					905	910	937	946	973	978	1005	1010	1037	1042	1069	1074	1101	
					1106	1133	1138	1165	1171	1198	1203	1230	1235	1262	1267	1294	1301	
					1328	1333	1360	1365	1392	1397	1424	1433	1460	1465	1492	1497	1524	
					1529	1556	1561	1588	1593	1620	1625	1652	1658	1685	1690	1717	1722	
					1749	1754	1781	1786	1813	1820	1847	1853	1880	1885	1912	1917	1944	
					1950	1977	1986	2013	2018	2045	2050	2077	2082	2109	2114	2141	2146	
					2173	2178	2205	2211	2238	2243	2270	2275	2302	2307	2334	2339	2366	
					2371	2398	2405	2432	2437	2464	2469	2496	2502	2529	2534	2561	2567	
					2594	2603	2630	2635	2662	2667	2694	2699	2726	2731	2758	2763	2790	
					2795	2822	2828	2855	2860	2887	2892	2919	2924	2951	2956	2983	2988	
					3015	3022	3049	3054	3081	3086	3113	3119	3146	3151	3178	3183	3210	
					3226	3253	3258	3285	3290	3317	3322	3349	3354	3381	3386	3413	3418	
					3445	3451	3478	3484	3511	3516	3543	3548	3575	3580	3607	3615	3642	
					3649	3676	3682	3709	3716	3743	3750	3777	3793	3820	3825	3852	3857	
					3884	3889	3916	3921	3948	3953	3980	3985	4012	4017	4044	4050	4077	
					4082	4109	4114	4141	4146	4173	4178	4205	4210	4237	4245	4272	4278	
					4305	4311	4338	4345	4372	4378	4405	4412	4439					
R6	U	00000006	1	4587														
R7	U	00000007	1	4588														
R8	U	00000008	1	4589	101	104	105	106	108									

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES				
R9	U	00000009	1	4590	102	108	109	111	
RE1	F	000011EC	4	581	567				
RE10	F	0000166C	4	872	858				
RE100	F	0000436C	4	3819	3805				
RE101	F	000043EC	4	3851	3837				
RE102	F	0000446C	4	3883	3869				
RE103	F	000044EC	4	3915	3901				
RE104	F	0000456C	4	3947	3933				
RE105	F	000045EC	4	3979	3965				
RE106	F	0000466C	4	4011	3997				
RE107	F	000046EC	4	4043	4029				
RE108	F	0000476C	4	4076	4062				
RE109	F	000047EC	4	4108	4094				
RE11	F	000016EC	4	904	890				
RE110	F	0000486C	4	4140	4126				
RE111	F	000048EC	4	4172	4158				
RE112	F	0000496C	4	4204	4190				
RE113	F	000049EC	4	4236	4222				
RE114	F	00004A6C	4	4271	4257				
RE115	F	00004AEC	4	4304	4290				
RE116	F	00004B6C	4	4337	4323				
RE117	F	00004BEC	4	4371	4357				
RE118	F	00004C6C	4	4404	4390				
RE119	F	00004CEC	4	4438	4424				
RE12	F	0000176C	4	936	922				
RE13	F	000017EC	4	972	958				
RE14	F	0000186C	4	1004	990				
RE15	F	000018EC	4	1036	1022				
RE16	F	0000196C	4	1068	1054				
RE17	F	000019EC	4	1100	1086				
RE18	F	00001A6C	4	1132	1118				
RE19	F	00001AEC	4	1164	1150				
RE2	F	0000126C	4	613	599				
RE20	F	00001B6C	4	1197	1183				
RE21	F	00001BEC	4	1229	1215				
RE22	F	00001C6C	4	1261	1247				
RE23	F	00001CEC	4	1293	1279				
RE24	F	00001D6C	4	1327	1313				
RE25	F	00001DEC	4	1359	1345				
RE26	F	00001E6C	4	1391	1377				
RE27	F	00001EEC	4	1423	1409				
RE28	F	00001F6C	4	1459	1445				
RE29	F	00001FEC	4	1491	1477				
RE3	F	000012EC	4	645	631				
RE30	F	0000206C	4	1523	1509				
RE31	F	000020EC	4	1555	1541				
RE32	F	0000216C	4	1587	1573				
RE33	F	000021EC	4	1619	1605				
RE34	F	0000226C	4	1651	1637				
RE35	F	000022EC	4	1684	1670				
RE36	F	0000236C	4	1716	1702				
RE37	F	000023EC	4	1748	1734				
RE38	F	0000246C	4	1780	1766				
RE39	F	000024EC	4	1812	1798				
RE4	F	0000136C	4	677	663				
RE40	F	0000256C	4	1846	1832				

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
RE41	F	000025EC	4	1879	1865
RE42	F	0000266C	4	1911	1897
RE43	F	000026EC	4	1943	1929
RE44	F	0000276C	4	1976	1962
RE45	F	000027EC	4	2012	1998
RE46	F	0000286C	4	2044	2030
RE47	F	000028EC	4	2076	2062
RE48	F	0000296C	4	2108	2094
RE49	F	000029EC	4	2140	2126
RE5	F	000013EC	4	709	695
RE50	F	00002A6C	4	2172	2158
RE51	F	00002AEC	4	2204	2190
RE52	F	00002B6C	4	2237	2223
RE53	F	00002BEC	4	2269	2255
RE54	F	00002C6C	4	2301	2287
RE55	F	00002CEC	4	2333	2319
RE56	F	00002D6C	4	2365	2351
RE57	F	00002DEC	4	2397	2383
RE58	F	00002E6C	4	2431	2417
RE59	F	00002EEC	4	2463	2449
RE6	F	0000146C	4	741	727
RE60	F	00002F6C	4	2495	2481
RE61	F	00002FEC	4	2528	2514
RE62	F	0000306C	4	2560	2546
RE63	F	000030EC	4	2593	2579
RE64	F	0000316C	4	2629	2615
RE65	F	000031EC	4	2661	2647
RE66	F	0000326C	4	2693	2679
RE67	F	000032EC	4	2725	2711
RE68	F	0000336C	4	2757	2743
RE69	F	000033EC	4	2789	2775
RE7	F	000014EC	4	774	760
RE70	F	0000346C	4	2821	2807
RE71	F	000034EC	4	2854	2840
RE72	F	0000356C	4	2886	2872
RE73	F	000035EC	4	2918	2904
RE74	F	0000366C	4	2950	2936
RE75	F	000036EC	4	2982	2968
RE76	F	0000376C	4	3014	3000
RE77	F	000037EC	4	3048	3034
RE78	F	0000386C	4	3080	3066
RE79	F	000038EC	4	3112	3098
RE8	F	0000156C	4	806	792
RE80	F	0000396C	4	3145	3131
RE81	F	000039EC	4	3177	3163
RE82	F	00003A6C	4	3209	3195
RE83	F	00003AEC	4	3252	3238
RE84	F	00003B6C	4	3284	3270
RE85	F	00003BEC	4	3316	3302
RE86	F	00003C6C	4	3348	3334
RE87	F	00003CEC	4	3380	3366
RE88	F	00003D6C	4	3412	3398
RE89	F	00003DEC	4	3444	3430
RE9	F	000015EC	4	838	824
RE90	F	00003E6C	4	3477	3463
RE91	F	00003EEC	4	3510	3496



SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
RE92	F	00003F6C	4	3542	3528
RE93	F	00003FEC	4	3574	3560
RE94	F	0000406C	4	3606	3592
RE95	F	000040EC	4	3641	3627
RE96	F	0000416C	4	3675	3661
RE97	F	000041EC	4	3708	3694
RE98	F	0000426C	4	3742	3728
RE99	F	000042EC	4	3776	3762
REA1	A	000011AC	4	567	
REA10	A	0000162C	4	858	
REA100	A	0000432C	4	3805	
REA101	A	000043AC	4	3837	
REA102	A	0000442C	4	3869	
REA103	A	000044AC	4	3901	
REA104	A	0000452C	4	3933	
REA105	A	000045AC	4	3965	
REA106	A	0000462C	4	3997	
REA107	A	000046AC	4	4029	
REA108	A	0000472C	4	4062	
REA109	A	000047AC	4	4094	
REA11	A	000016AC	4	890	
REA110	A	0000482C	4	4126	
REA111	A	000048AC	4	4158	
REA112	A	0000492C	4	4190	
REA113	A	000049AC	4	4222	
REA114	A	00004A2C	4	4257	
REA115	A	00004AAC	4	4290	
REA116	A	00004B2C	4	4323	
REA117	A	00004BAC	4	4357	
REA118	A	00004C2C	4	4390	
REA119	A	00004CAC	4	4424	
REA12	A	0000172C	4	922	
REA13	A	000017AC	4	958	
REA14	A	0000182C	4	990	
REA15	A	000018AC	4	1022	
REA16	A	0000192C	4	1054	
REA17	A	000019AC	4	1086	
REA18	A	00001A2C	4	1118	
REA19	A	00001AAC	4	1150	
REA2	A	0000122C	4	599	
REA20	A	00001B2C	4	1183	
REA21	A	00001BAC	4	1215	
REA22	A	00001C2C	4	1247	
REA23	A	00001CAC	4	1279	
REA24	A	00001D2C	4	1313	
REA25	A	00001DAC	4	1345	
REA26	A	00001E2C	4	1377	
REA27	A	00001EAC	4	1409	
REA28	A	00001F2C	4	1445	
REA29	A	00001FAC	4	1477	
REA3	A	000012AC	4	631	
REA30	A	0000202C	4	1509	
REA31	A	000020AC	4	1541	
REA32	A	0000212C	4	1573	
REA33	A	000021AC	4	1605	
REA34	A	0000222C	4	1637	

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
REA35	A	000022AC	4	1670	
REA36	A	0000232C	4	1702	
REA37	A	000023AC	4	1734	
REA38	A	0000242C	4	1766	
REA39	A	000024AC	4	1798	
REA4	A	0000132C	4	663	
REA40	A	0000252C	4	1832	
REA41	A	000025AC	4	1865	
REA42	A	0000262C	4	1897	
REA43	A	000026AC	4	1929	
REA44	A	0000272C	4	1962	
REA45	A	000027AC	4	1998	
REA46	A	0000282C	4	2030	
REA47	A	000028AC	4	2062	
REA48	A	0000292C	4	2094	
REA49	A	000029AC	4	2126	
REA5	A	000013AC	4	695	
REA50	A	00002A2C	4	2158	
REA51	A	00002AAC	4	2190	
REA52	A	00002B2C	4	2223	
REA53	A	00002BAC	4	2255	
REA54	A	00002C2C	4	2287	
REA55	A	00002CAC	4	2319	
REA56	A	00002D2C	4	2351	
REA57	A	00002DAC	4	2383	
REA58	A	00002E2C	4	2417	
REA59	A	00002EAC	4	2449	
REA6	A	0000142C	4	727	
REA60	A	00002F2C	4	2481	
REA61	A	00002FAC	4	2514	
REA62	A	0000302C	4	2546	
REA63	A	000030AC	4	2579	
REA64	A	0000312C	4	2615	
REA65	A	000031AC	4	2647	
REA66	A	0000322C	4	2679	
REA67	A	000032AC	4	2711	
REA68	A	0000332C	4	2743	
REA69	A	000033AC	4	2775	
REA7	A	000014AC	4	760	
REA70	A	0000342C	4	2807	
REA71	A	000034AC	4	2840	
REA72	A	0000352C	4	2872	
REA73	A	000035AC	4	2904	
REA74	A	0000362C	4	2936	
REA75	A	000036AC	4	2968	
REA76	A	0000372C	4	3000	
REA77	A	000037AC	4	3034	
REA78	A	0000382C	4	3066	
REA79	A	000038AC	4	3098	
REA8	A	0000152C	4	792	
REA80	A	0000392C	4	3131	
REA81	A	000039AC	4	3163	
REA82	A	00003A2C	4	3195	
REA83	A	00003AAC	4	3238	
REA84	A	00003B2C	4	3270	
REA85	A	00003BAC	4	3302	

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES	
REA86	A	00003C2C	4	3334		
REA87	A	00003CAC	4	3366		
REA88	A	00003D2C	4	3398		
REA89	A	00003DAC	4	3430		
REA9	A	000015AC	4	824		
REA90	A	00003E2C	4	3463		
REA91	A	00003EAC	4	3496		
REA92	A	00003F2C	4	3528		
REA93	A	00003FAC	4	3560		
REA94	A	0000402C	4	3592		
REA95	A	000040AC	4	3627		
REA96	A	0000412C	4	3661		
REA97	A	000041AC	4	3694		
REA98	A	0000422C	4	3728		
REA99	A	000042AC	4	3762		
READDR	A	0000002C	4	440	142	
REG2LOW	U	000000DD	1	343		
REG2PATT	U	AABBCCDD	1	342		
RELEN	A	00000028	4	439		
RPTDWSAV	D	000003B0	8	271	260	262
RPTERROR	I	00000384	4	255	193	227
RPTSAVE	F	000003A4	4	268	255	265
RPTSVR5	F	000003A8	4	269	256	264
SVOLDPSW	U	00000140	0	66		
T1	A	00001180	4	556	4451	
T10	A	00001600	4	847	4460	
T100	A	00004300	4	3794	4550	
T101	A	00004380	4	3826	4551	
T102	A	00004400	4	3858	4552	
T103	A	00004480	4	3890	4553	
T104	A	00004500	4	3922	4554	
T105	A	00004580	4	3954	4555	
T106	A	00004600	4	3986	4556	
T107	A	00004680	4	4018	4557	
T108	A	00004700	4	4051	4558	
T109	A	00004780	4	4083	4559	
T11	A	00001680	4	879	4461	
T110	A	00004800	4	4115	4560	
T111	A	00004880	4	4147	4561	
T112	A	00004900	4	4179	4562	
T113	A	00004980	4	4211	4563	
T114	A	00004A00	4	4246	4564	
T115	A	00004A80	4	4279	4565	
T116	A	00004B00	4	4312	4566	
T117	A	00004B80	4	4346	4567	
T118	A	00004C00	4	4379	4568	
T119	A	00004C80	4	4413	4569	
T12	A	00001700	4	911	4462	
T13	A	00001780	4	947	4463	
T14	A	00001800	4	979	4464	
T15	A	00001880	4	1011	4465	
T16	A	00001900	4	1043	4466	
T17	A	00001980	4	1075	4467	
T18	A	00001A00	4	1107	4468	
T19	A	00001A80	4	1139	4469	
T2	A	00001200	4	588	4452	

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
T20	A	00001B00	4	1172	4470
T21	A	00001B80	4	1204	4471
T22	A	00001C00	4	1236	4472
T23	A	00001C80	4	1268	4473
T24	A	00001D00	4	1302	4474
T25	A	00001D80	4	1334	4475
T26	A	00001E00	4	1366	4476
T27	A	00001E80	4	1398	4477
T28	A	00001F00	4	1434	4478
T29	A	00001F80	4	1466	4479
T3	A	00001280	4	620	4453
T30	A	00002000	4	1498	4480
T31	A	00002080	4	1530	4481
T32	A	00002100	4	1562	4482
T33	A	00002180	4	1594	4483
T34	A	00002200	4	1626	4484
T35	A	00002280	4	1659	4485
T36	A	00002300	4	1691	4486
T37	A	00002380	4	1723	4487
T38	A	00002400	4	1755	4488
T39	A	00002480	4	1787	4489
T4	A	00001300	4	652	4454
T40	A	00002500	4	1821	4490
T41	A	00002580	4	1854	4491
T42	A	00002600	4	1886	4492
T43	A	00002680	4	1918	4493
T44	A	00002700	4	1951	4494
T45	A	00002780	4	1987	4495
T46	A	00002800	4	2019	4496
T47	A	00002880	4	2051	4497
T48	A	00002900	4	2083	4498
T49	A	00002980	4	2115	4499
T5	A	00001380	4	684	4455
T50	A	00002A00	4	2147	4500
T51	A	00002A80	4	2179	4501
T52	A	00002B00	4	2212	4502
T53	A	00002B80	4	2244	4503
T54	A	00002C00	4	2276	4504
T55	A	00002C80	4	2308	4505
T56	A	00002D00	4	2340	4506
T57	A	00002D80	4	2372	4507
T58	A	00002E00	4	2406	4508
T59	A	00002E80	4	2438	4509
T6	A	00001400	4	716	4456
T60	A	00002F00	4	2470	4510
T61	A	00002F80	4	2503	4511
T62	A	00003000	4	2535	4512
T63	A	00003080	4	2568	4513
T64	A	00003100	4	2604	4514
T65	A	00003180	4	2636	4515
T66	A	00003200	4	2668	4516
T67	A	00003280	4	2700	4517
T68	A	00003300	4	2732	4518
T69	A	00003380	4	2764	4519
T7	A	00001480	4	749	4457
T70	A	00003400	4	2796	4520





SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES												
V10	U	0000000A	1	4612													
V11	U	0000000B	1	4613													
V12	U	0000000C	1	4614													
V13	U	0000000D	1	4615													
V14	U	0000000E	1	4616													
V15	U	0000000F	1	4617													
V16	U	00000010	1	4618													
V17	U	00000011	1	4619													
V18	U	00000012	1	4620													
V19	U	00000013	1	4621													
V1FUDGE	X	00001120	16	413	133												
V1INPUT	C	00001130	16	414													
V10OUTPUT	X	00001100	16	411	143	577	609	641	673	705	737	770	802	834	868	900	932
					968	1000	1032	1064	1096	1128	1160	1193	1225	1257	1289	1323	1355
					1387	1419	1455	1487	1519	1551	1583	1615	1647	1680	1712	1744	1776
					1808	1842	1875	1907	1939	1972	2008	2040	2072	2104	2136	2168	2200
					2233	2265	2297	2329	2361	2393	2427	2459	2491	2524	2556	2589	2625
					2657	2689	2721	2753	2785	2817	2850	2882	2914	2946	2978	3010	3044
					3076	3108	3141	3173	3205	3248	3280	3312	3344	3376	3408	3440	3473
					3506	3538	3570	3602	3637	3671	3704	3738	3772	3815	3847	3879	3911
					3943	3975	4007	4039	4072	4104	4136	4168	4200	4232	4267	4300	4333
					4367	4400	4434										
V2	U	00000002	1	4604	572	576	604	608	636	640	668	672	700	704	732	736	765
					769	797	801	829	833	863	867	895	899	927	931	963	967
					995	999	1027	1031	1059	1063	1091	1095	1123	1127	1155	1159	1188
					1192	1220	1224	1252	1256	1284	1288	1318	1322	1350	1354	1382	1386
					1414	1418	1450	1454	1482	1486	1514	1518	1546	1550	1578	1582	1610
					1614	1642	1646	1675	1679	1707	1711	1739	1743	1771	1775	1803	1807
					1837	1841	1870	1874	1902	1906	1934	1938	1967	1971	2003	2007	2035
					2039	2067	2071	2099	2103	2131	2135	2163	2167	2195	2199	2228	2232
					2260	2264	2292	2296	2324	2328	2356	2360	2388	2392	2422	2426	2454
					2458	2486	2490	2519	2523	2551	2555	2584	2588	2620	2624	2652	2656
					2684	2688	2716	2720	2748	2752	2780	2784	2812	2816	2845	2849	2877
					2881	2909	2913	2941	2945	2973	2977	3005	3009	3039	3043	3071	3075
					3103	3107	3136	3140	3168	3172	3200	3204	3243	3247	3275	3279	3307
					3311	3339	3343	3371	3375	3403	3407	3435	3439	3468	3472	3501	3505
					3533	3537	3565	3569	3597	3601	3632	3636	3666	3670	3699	3703	3733
					3737	3767	3771	3810	3814	3842	3846	3874	3878	3906	3910	3938	3942
					3970	3974	4002	4006	4034	4038	4067	4071	4099	4103	4131	4135	4163
					4167	4195	4199	4227	4231	4262	4266	4295	4299	4328	4332	4362	4366
					4395	4399	4429	4433									
V20	U	00000014	1	4622													
V21	U	00000015	1	4623													
V22	U	00000016	1	4624													
V23	U	00000017	1	4625													
V24	U	00000018	1	4626													
V25	U	00000019	1	4627													
V26	U	0000001A	1	4628													
V27	U	0000001B	1	4629													
V28	U	0000001C	1	4630													
V29	U	0000001D	1	4631													
V2PACKED	X	0000114F	16	417	571	572	603	604	635	636	667	668	699	700	731	732	764
					765	796	797	828	829	862	863	894	895	926	927	962	963
					994	995	1026	1027	1058	1059	1090	1091	1122	1123	1154	1155	1187
					1188	1219	1220	1251	1252	1283	1284	1317	1318	1349	1350	1381	1382
					1413	1414	1449	1450	1481	1482	1513	1514	1545	1546	1577	1578	1609

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
					1610 1641 1642 1674 1675 1706 1707 1738 1739 1770 1771 1802 1803
					1836 1837 1869 1870 1901 1902 1933 1934 1966 1967 2002 2003 2034
					2035 2066 2067 2098 2099 2130 2131 2162 2163 2194 2195 2227 2228
					2259 2260 2291 2292 2323 2324 2355 2356 2387 2388 2421 2422 2453
					2454 2485 2486 2518 2519 2550 2551 2583 2584 2619 2620 2651 2652
					2683 2684 2715 2716 2747 2748 2779 2780 2811 2812 2844 2845 2876
					2877 2908 2909 2940 2941 2972 2973 3004 3005 3038 3039 3070 3071
					3102 3103 3135 3136 3167 3168 3199 3200 3242 3243 3274 3275 3306
					3307 3338 3339 3370 3371 3402 3403 3434 3435 3467 3468 3500 3501
					3532 3533 3564 3565 3596 3597 3631 3632 3665 3666 3698 3699 3732
					3733 3766 3767 3809 3810 3841 3842 3873 3874 3905 3906 3937 3938
					3969 3970 4001 4002 4033 4034 4066 4067 4098 4099 4130 4131 4162
					4163 4194 4195 4226 4227 4261 4262 4294 4295 4327 4328 4361 4362
					4394 4395 4428 4429
V2VALUE	F	00000010	8	434	
V2_1	F	00001190	8	563	570
V2_10	F	00001610	8	854	861
V2_100	F	00004310	8	3801	3808
V2_101	F	00004390	8	3833	3840
V2_102	F	00004410	8	3865	3872
V2_103	F	00004490	8	3897	3904
V2_104	F	00004510	8	3929	3936
V2_105	F	00004590	8	3961	3968
V2_106	F	00004610	8	3993	4000
V2_107	F	00004690	8	4025	4032
V2_108	F	00004710	8	4058	4065
V2_109	F	00004790	8	4090	4097
V2_11	F	00001690	8	886	893
V2_110	F	00004810	8	4122	4129
V2_111	F	00004890	8	4154	4161
V2_112	F	00004910	8	4186	4193
V2_113	F	00004990	8	4218	4225
V2_114	F	00004A10	8	4253	4260
V2_115	F	00004A90	8	4286	4293
V2_116	F	00004B10	8	4319	4326
V2_117	F	00004B90	8	4353	4360
V2_118	F	00004C10	8	4386	4393
V2_119	F	00004C90	8	4420	4427
V2_12	F	00001710	8	918	925
V2_13	F	00001790	8	954	961
V2_14	F	00001810	8	986	993
V2_15	F	00001890	8	1018	1025
V2_16	F	00001910	8	1050	1057
V2_17	F	00001990	8	1082	1089
V2_18	F	00001A10	8	1114	1121
V2_19	F	00001A90	8	1146	1153
V2_2	F	00001210	8	595	602
V2_20	F	00001B10	8	1179	1186
V2_21	F	00001B90	8	1211	1218
V2_22	F	00001C10	8	1243	1250
V2_23	F	00001C90	8	1275	1282
V2_24	F	00001D10	8	1309	1316
V2_25	F	00001D90	8	1341	1348
V2_26	F	00001E10	8	1373	1380
V2_27	F	00001E90	8	1405	1412
V2_28	F	00001F10	8	1441	1448

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
V2_29	F	00001F90	8	1473	1480
V2_3	F	00001290	8	627	634
V2_30	F	00002010	8	1505	1512
V2_31	F	00002090	8	1537	1544
V2_32	F	00002110	8	1569	1576
V2_33	F	00002190	8	1601	1608
V2_34	F	00002210	8	1633	1640
V2_35	F	00002290	8	1666	1673
V2_36	F	00002310	8	1698	1705
V2_37	F	00002390	8	1730	1737
V2_38	F	00002410	8	1762	1769
V2_39	F	00002490	8	1794	1801
V2_4	F	00001310	8	659	666
V2_40	F	00002510	8	1828	1835
V2_41	F	00002590	8	1861	1868
V2_42	F	00002610	8	1893	1900
V2_43	F	00002690	8	1925	1932
V2_44	F	00002710	8	1958	1965
V2_45	F	00002790	8	1994	2001
V2_46	F	00002810	8	2026	2033
V2_47	F	00002890	8	2058	2065
V2_48	F	00002910	8	2090	2097
V2_49	F	00002990	8	2122	2129
V2_5	F	00001390	8	691	698
V2_50	F	00002A10	8	2154	2161
V2_51	F	00002A90	8	2186	2193
V2_52	F	00002B10	8	2219	2226
V2_53	F	00002B90	8	2251	2258
V2_54	F	00002C10	8	2283	2290
V2_55	F	00002C90	8	2315	2322
V2_56	F	00002D10	8	2347	2354
V2_57	F	00002D90	8	2379	2386
V2_58	F	00002E10	8	2413	2420
V2_59	F	00002E90	8	2445	2452
V2_6	F	00001410	8	723	730
V2_60	F	00002F10	8	2477	2484
V2_61	F	00002F90	8	2510	2517
V2_62	F	00003010	8	2542	2549
V2_63	F	00003090	8	2575	2582
V2_64	F	00003110	8	2611	2618
V2_65	F	00003190	8	2643	2650
V2_66	F	00003210	8	2675	2682
V2_67	F	00003290	8	2707	2714
V2_68	F	00003310	8	2739	2746
V2_69	F	00003390	8	2771	2778
V2_7	F	00001490	8	756	763
V2_70	F	00003410	8	2803	2810
V2_71	F	00003490	8	2836	2843
V2_72	F	00003510	8	2868	2875
V2_73	F	00003590	8	2900	2907
V2_74	F	00003610	8	2932	2939
V2_75	F	00003690	8	2964	2971
V2_76	F	00003710	8	2996	3003
V2_77	F	00003790	8	3030	3037
V2_78	F	00003810	8	3062	3069
V2_79	F	00003890	8	3094	3101



SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES												
V2_8	F	00001510	8	788	795												
V2_80	F	00003910	8	3127	3134												
V2_81	F	00003990	8	3159	3166												
V2_82	F	00003A10	8	3191	3198												
V2_83	F	00003A90	8	3234	3241												
V2_84	F	00003B10	8	3266	3273												
V2_85	F	00003B90	8	3298	3305												
V2_86	F	00003C10	8	3330	3337												
V2_87	F	00003C90	8	3362	3369												
V2_88	F	00003D10	8	3394	3401												
V2_89	F	00003D90	8	3426	3433												
V2_9	F	00001590	8	820	827												
V2_90	F	00003E10	8	3459	3466												
V2_91	F	00003E90	8	3492	3499												
V2_92	F	00003F10	8	3524	3531												
V2_93	F	00003F90	8	3556	3563												
V2_94	F	00004010	8	3588	3595												
V2_95	F	00004090	8	3623	3630												
V2_96	F	00004110	8	3657	3664												
V2_97	F	00004190	8	3690	3697												
V2_98	F	00004210	8	3724	3731												
V2_99	F	00004290	8	3758	3765												
V3	U	00000003	1	4605	575	576	607	608	639	640	671	672	703	704	735	736	768
					769	800	801	832	833	866	867	898	899	930	931	966	967
					998	999	1030	1031	1062	1063	1094	1095	1126	1127	1158	1159	1191
					1192	1223	1224	1255	1256	1287	1288	1321	1322	1353	1354	1385	1386
					1417	1418	1453	1454	1485	1486	1517	1518	1549	1550	1581	1582	1613
					1614	1645	1646	1678	1679	1710	1711	1742	1743	1774	1775	1806	1807
					1840	1841	1873	1874	1905	1906	1937	1938	1970	1971	2006	2007	2038
					2039	2070	2071	2102	2103	2134	2135	2166	2167	2198	2199	2231	2232
					2263	2264	2295	2296	2327	2328	2359	2360	2391	2392	2425	2426	2457
					2458	2489	2490	2522	2523	2554	2555	2587	2588	2623	2624	2655	2656
					2687	2688	2719	2720	2751	2752	2783	2784	2815	2816	2848	2849	2880
					2881	2912	2913	2944	2945	2976	2977	3008	3009	3042	3043	3074	3075
					3106	3107	3139	3140	3171	3172	3203	3204	3246	3247	3278	3279	3310
					3311	3342	3343	3374	3375	3406	3407	3438	3439	3471	3472	3504	3505
					3536	3537	3568	3569	3600	3601	3635	3636	3669	3670	3702	3703	3736
					3737	3770	3771	3813	3814	3845	3846	3877	3878	3909	3910	3941	3942
					3973	3974	4005	4006	4037	4038	4070	4071	4102	4103	4134	4135	4166
					4167	4198	4199	4230	4231	4265	4266	4298	4299	4331	4332	4365	4366
					4398	4399	4432	4433									
V30	U	0000001E	1	4632													
V31	U	0000001F	1	4633													
V3PACKED	X	0000115F	16	418	574	575	606	607	638	639	670	671	702	703	734	735	767
					768	799	800	831	832	865	866	897	898	929	930	965	966
					997	998	1029	1030	1061	1062	1093	1094	1125	1126	1157	1158	1190
					1191	1222	1223	1254	1255	1286	1287	1320	1321	1352	1353	1384	1385
					1416	1417	1452	1453	1484	1485	1516	1517	1548	1549	1580	1581	1612
					1613	1644	1645	1677	1678	1709	1710	1741	1742	1773	1774	1805	1806
					1839	1840	1872	1873	1904	1905	1936	1937	1969	1970	2005	2006	2037
					2038	2069	2070	2101	2102	2133	2134	2165	2166	2197	2198	2230	2231
					2262	2263	2294	2295	2326	2327	2358	2359	2390	2391	2424	2425	2456
					2457	2488	2489	2521	2522	2553	2554	2586	2587	2622	2623	2654	2655
					2686	2687	2718	2719	2750	2751	2782	2783	2814	2815	2847	2848	2879
					2880	2911	2912	2943	2944	2975	2976	3007	3008	3041	3042	3073	3074
					3105	3106	3138	3139	3170	3171	3202	3203	3245	3246	3277	3278	3309

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
					3310 3341 3342 3373 3374 3405 3406 3437 3438 3470 3471 3503 3504
					3535 3536 3567 3568 3599 3600 3634 3635 3668 3669 3701 3702 3735
					3736 3769 3770 3812 3813 3844 3845 3876 3877 3908 3909 3940 3941
					3972 3973 4004 4005 4036 4037 4069 4070 4101 4102 4133 4134 4165
					4166 4197 4198 4229 4230 4264 4265 4297 4298 4330 4331 4364 4365
					4397 4398 4431 4432
V3VALUE	F	00000018	8	435	
V3_1	F	00001198	8	564	573
V3_10	F	00001618	8	855	864
V3_100	F	00004318	8	3802	3811
V3_101	F	00004398	8	3834	3843
V3_102	F	00004418	8	3866	3875
V3_103	F	00004498	8	3898	3907
V3_104	F	00004518	8	3930	3939
V3_105	F	00004598	8	3962	3971
V3_106	F	00004618	8	3994	4003
V3_107	F	00004698	8	4026	4035
V3_108	F	00004718	8	4059	4068
V3_109	F	00004798	8	4091	4100
V3_11	F	00001698	8	887	896
V3_110	F	00004818	8	4123	4132
V3_111	F	00004898	8	4155	4164
V3_112	F	00004918	8	4187	4196
V3_113	F	00004998	8	4219	4228
V3_114	F	00004A18	8	4254	4263
V3_115	F	00004A98	8	4287	4296
V3_116	F	00004B18	8	4320	4329
V3_117	F	00004B98	8	4354	4363
V3_118	F	00004C18	8	4387	4396
V3_119	F	00004C98	8	4421	4430
V3_12	F	00001718	8	919	928
V3_13	F	00001798	8	955	964
V3_14	F	00001818	8	987	996
V3_15	F	00001898	8	1019	1028
V3_16	F	00001918	8	1051	1060
V3_17	F	00001998	8	1083	1092
V3_18	F	00001A18	8	1115	1124
V3_19	F	00001A98	8	1147	1156
V3_2	F	00001218	8	596	605
V3_20	F	00001B18	8	1180	1189
V3_21	F	00001B98	8	1212	1221
V3_22	F	00001C18	8	1244	1253
V3_23	F	00001C98	8	1276	1285
V3_24	F	00001D18	8	1310	1319
V3_25	F	00001D98	8	1342	1351
V3_26	F	00001E18	8	1374	1383
V3_27	F	00001E98	8	1406	1415
V3_28	F	00001F18	8	1442	1451
V3_29	F	00001F98	8	1474	1483
V3_3	F	00001298	8	628	637
V3_30	F	00002018	8	1506	1515
V3_31	F	00002098	8	1538	1547
V3_32	F	00002118	8	1570	1579
V3_33	F	00002198	8	1602	1611
V3_34	F	00002218	8	1634	1643
V3_35	F	00002298	8	1667	1676

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
V3_36	F	00002318	8	1699	1708
V3_37	F	00002398	8	1731	1740
V3_38	F	00002418	8	1763	1772
V3_39	F	00002498	8	1795	1804
V3_4	F	00001318	8	660	669
V3_40	F	00002518	8	1829	1838
V3_41	F	00002598	8	1862	1871
V3_42	F	00002618	8	1894	1903
V3_43	F	00002698	8	1926	1935
V3_44	F	00002718	8	1959	1968
V3_45	F	00002798	8	1995	2004
V3_46	F	00002818	8	2027	2036
V3_47	F	00002898	8	2059	2068
V3_48	F	00002918	8	2091	2100
V3_49	F	00002998	8	2123	2132
V3_5	F	00001398	8	692	701
V3_50	F	00002A18	8	2155	2164
V3_51	F	00002A98	8	2187	2196
V3_52	F	00002B18	8	2220	2229
V3_53	F	00002B98	8	2252	2261
V3_54	F	00002C18	8	2284	2293
V3_55	F	00002C98	8	2316	2325
V3_56	F	00002D18	8	2348	2357
V3_57	F	00002D98	8	2380	2389
V3_58	F	00002E18	8	2414	2423
V3_59	F	00002E98	8	2446	2455
V3_6	F	00001418	8	724	733
V3_60	F	00002F18	8	2478	2487
V3_61	F	00002F98	8	2511	2520
V3_62	F	00003018	8	2543	2552
V3_63	F	00003098	8	2576	2585
V3_64	F	00003118	8	2612	2621
V3_65	F	00003198	8	2644	2653
V3_66	F	00003218	8	2676	2685
V3_67	F	00003298	8	2708	2717
V3_68	F	00003318	8	2740	2749
V3_69	F	00003398	8	2772	2781
V3_7	F	00001498	8	757	766
V3_70	F	00003418	8	2804	2813
V3_71	F	00003498	8	2837	2846
V3_72	F	00003518	8	2869	2878
V3_73	F	00003598	8	2901	2910
V3_74	F	00003618	8	2933	2942
V3_75	F	00003698	8	2965	2974
V3_76	F	00003718	8	2997	3006
V3_77	F	00003798	8	3031	3040
V3_78	F	00003818	8	3063	3072
V3_79	F	00003898	8	3095	3104
V3_8	F	00001518	8	789	798
V3_80	F	00003918	8	3128	3137
V3_81	F	00003998	8	3160	3169
V3_82	F	00003A18	8	3192	3201
V3_83	F	00003A98	8	3235	3244
V3_84	F	00003B18	8	3267	3276
V3_85	F	00003B98	8	3299	3308
V3_86	F	00003C18	8	3331	3340

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
V3_87	F	00003C98	8	3363	3372
V3_88	F	00003D18	8	3395	3404
V3_89	F	00003D98	8	3427	3436
V3_9	F	00001598	8	821	830
V3_90	F	00003E18	8	3460	3469
V3_91	F	00003E98	8	3493	3502
V3_92	F	00003F18	8	3525	3534
V3_93	F	00003F98	8	3557	3566
V3_94	F	00004018	8	3589	3598
V3_95	F	00004098	8	3624	3633
V3_96	F	00004118	8	3658	3667
V3_97	F	00004198	8	3691	3700
V3_98	F	00004218	8	3725	3734
V3_99	F	00004298	8	3759	3768
V4	U	00000004	1	4606	
V5	U	00000005	1	4607	
V6	U	00000006	1	4608	
V7	U	00000007	1	4609	
V8	U	00000008	1	4610	
V9	U	00000009	1	4611	
X1	F	000011B0	4	569	556
X10	F	00001630	4	860	847
X100	F	00004330	4	3807	3794
X101	F	000043B0	4	3839	3826
X102	F	00004430	4	3871	3858
X103	F	000044B0	4	3903	3890
X104	F	00004530	4	3935	3922
X105	F	000045B0	4	3967	3954
X106	F	00004630	4	3999	3986
X107	F	000046B0	4	4031	4018
X108	F	00004730	4	4064	4051
X109	F	000047B0	4	4096	4083
X11	F	000016B0	4	892	879
X110	F	00004830	4	4128	4115
X111	F	000048B0	4	4160	4147
X112	F	00004930	4	4192	4179
X113	F	000049B0	4	4224	4211
X114	F	00004A30	4	4259	4246
X115	F	00004AB0	4	4292	4279
X116	F	00004B30	4	4325	4312
X117	F	00004BB0	4	4359	4346
X118	F	00004C30	4	4392	4379
X119	F	00004CB0	4	4426	4413
X12	F	00001730	4	924	911
X13	F	000017B0	4	960	947
X14	F	00001830	4	992	979
X15	F	000018B0	4	1024	1011
X16	F	00001930	4	1056	1043
X17	F	000019B0	4	1088	1075
X18	F	00001A30	4	1120	1107
X19	F	00001AB0	4	1152	1139
X2	F	00001230	4	601	588
X20	F	00001B30	4	1185	1172
X21	F	00001BB0	4	1217	1204
X22	F	00001C30	4	1249	1236
X23	F	00001CB0	4	1281	1268



SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
X24	F	00001D30	4	1315	1302
X25	F	00001DB0	4	1347	1334
X26	F	00001E30	4	1379	1366
X27	F	00001EB0	4	1411	1398
X28	F	00001F30	4	1447	1434
X29	F	00001FB0	4	1479	1466
X3	F	000012B0	4	633	620
X30	F	00002030	4	1511	1498
X31	F	000020B0	4	1543	1530
X32	F	00002130	4	1575	1562
X33	F	000021B0	4	1607	1594
X34	F	00002230	4	1639	1626
X35	F	000022B0	4	1672	1659
X36	F	00002330	4	1704	1691
X37	F	000023B0	4	1736	1723
X38	F	00002430	4	1768	1755
X39	F	000024B0	4	1800	1787
X4	F	00001330	4	665	652
X40	F	00002530	4	1834	1821
X41	F	000025B0	4	1867	1854
X42	F	00002630	4	1899	1886
X43	F	000026B0	4	1931	1918
X44	F	00002730	4	1964	1951
X45	F	000027B0	4	2000	1987
X46	F	00002830	4	2032	2019
X47	F	000028B0	4	2064	2051
X48	F	00002930	4	2096	2083
X49	F	000029B0	4	2128	2115
X5	F	000013B0	4	697	684
X50	F	00002A30	4	2160	2147
X51	F	00002AB0	4	2192	2179
X52	F	00002B30	4	2225	2212
X53	F	00002BB0	4	2257	2244
X54	F	00002C30	4	2289	2276
X55	F	00002CB0	4	2321	2308
X56	F	00002D30	4	2353	2340
X57	F	00002DB0	4	2385	2372
X58	F	00002E30	4	2419	2406
X59	F	00002EB0	4	2451	2438
X6	F	00001430	4	729	716
X60	F	00002F30	4	2483	2470
X61	F	00002FB0	4	2516	2503
X62	F	00003030	4	2548	2535
X63	F	000030B0	4	2581	2568
X64	F	00003130	4	2617	2604
X65	F	000031B0	4	2649	2636
X66	F	00003230	4	2681	2668
X67	F	000032B0	4	2713	2700
X68	F	00003330	4	2745	2732
X69	F	000033B0	4	2777	2764
X7	F	000014B0	4	762	749
X70	F	00003430	4	2809	2796
X71	F	000034B0	4	2842	2829
X72	F	00003530	4	2874	2861
X73	F	000035B0	4	2906	2893
X74	F	00003630	4	2938	2925





DESC	SYMBOL	SIZE	POS	ADDR
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Entry: 0

Image Region CSECT	IMAGE	20208	0000-4EEF	0000-4EEF
		20208	0000-4EEF	0000-4EEF
	ZVE6TST	20208	0000-4EEF	0000-4EEF



STMT	FILE NAME
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2	2
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92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

```
1 /devstor/dev/tests/zvector-e6-05-packarith.asm
```

**\*\* NO ERRORS FOUND \*\***