ASMA Ver.	0.2.1 bfp-004-cvt	tolog: Test	IEEE Conve	ert To	Logical (uint-32)	17 Aug 2022 11:50:26 Page 1	
LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				2 * 3 *	*************	*********	
				4 * 5 * 6 *	Testcase IEEE CONVERT TO LOGICAL 32 Test case capability includes ieee otherwise. Test results, FPCR fla		
				7 * 8 * 9 *			
				10 * 11 * 12 *	**	Γ! **	
				13 * 14 * 15 * 16 * 17 *	This test uses the Hercules to display messages and thus MUST contain a "DIAG8CMD ENA	s your .tst runtest script	
				18 *		*********	
				71 ¥	***********	******	
				21 * 22 * 23 *			
				24 * 25 * 26 * 27 * 28 *	This assembly-language sourd Hercules Binary Floating Poi by Stephen F	int Validation Package	
				29 * 30 *	Copyright 2016 by Stephen R Orso. Runtest *Compare dependency removed PADCSECT macro/usage removed by Fis		
				34 *	Redistribution and use in source ar modification, are permitted provide are met:	nd binary forms, with or without ed that the following conditions	
					<ol> <li>Redistributions of source code motice, this list of conditions</li> </ol>		
					<ol><li>Redistributions in binary form m notice, this list of conditions</li></ol>	and the following disclaimer in	
				43 * 44 *	distribution.		
				45 * 46 * 47 * 48 *	permission.	pe used to endorse or promote ware without specific prior written	
				49 * 50 * 51 *	DISCLAMER: THIS SOFTWARE IS PROVIDE AND ANY EXPRESS OR IMPLIED WARRANTI THE IMPLIED WARRANTIES OF MERCHANTA PARTICULAR PURPOSE ARE DISCLAIMED.	IES, INCLUDING, BUT NOT LIMITED TO, ABILITY AND FITNESS FOR A	
				53 * 54 *	HOLDER BE LIABLE FOR ANY DIRECT, IN EXEMPLARY, OR CONSEQUENTIAL DAMAGES	NDIRECT, INCIDENTAL, SPECIAL, S (INCLUDING, BUT NOT LIMITED TO,	
					PROCUREMENT OF SUBSTITUTE GOODS OR PROFITS; OR BUSINESS INTERRUPTION)		

```
ASMA Ver. 0.2.1 bfp-004-cvttolog: Test IEEE Convert To Logical (uint-32)
                                                                                                  17 Aug 2022 11:50:26 Page
 LOC
            OBJECT CODE
                              ADDR1
                                        ADDR2
                                                 STMT
                                                   57 * OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
                                                   58 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
                                                   59 * OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
                                                   60 *
                                                   61 ***********************
                                                   64 *
                                                   65 * Tests the following three conversion instructions
                                                          CONVERT TO LOGICAL (short BFP to uint-32, RRF-e)
                                                          CONVERT TO LOGICAL (long BFP to uint-32, RRF-e)
                                                   68 *
                                                          CONVERT TO LOGICAL (extended BFP to uint-32, RRF-e)
                                                   69 *
                                                   70 * Test data is compiled into this program. The test script that runs
                                                   71 * this program can provide alternative test data through Hercules R
                                                   72 * commands.
                                                   73 *
                                                   74 * Test Case Order
                                                   75 * 1) Short BFP to uint-32
                                                   76 * 2) Short BFP to uint-32 with all rounding modes
                                                   77 * 3) Long BFP uint-32
                                                   78 * 3) Long BFP uint-32 with all rounding modes
                                                   79 * 4) Extended BFP to uint-32
                                                   80 * 4) Extended BFP to uint-32 with all rounding modes
                                                   81 *
                                                   82 * Three input test data sets are provided, one each for short, long,
                                                          and extended precision BFP. All are converted to uint-32.
                                                   84 *
                                                   85 * Provided test data is 1, 2, 4, 9, QNaN, SNaN, 4294967295.5.
                                                         The last three values will trigger inexact exceptions when
                                                          converted to uint-32. The last value is present only in the long
                                                   88 *
                                                          and extended BFP test cases and should overflow a uint-32.
                                                   89 * Provided test data for rounding tests is taken from Table 9-11 on
                                                   90 *
                                                          page 9-16 of SA22-7832-10.
                                                   91 *
                                                               -1.5, -0.5, +0.5, +1.5, +2.5, +5.5, +9.5.
                                                   92 *
                                                          While the table illustrates LOAD FP INTEGER, the same results
                                                          should be generated when creating a uint-32 or uint-64 from BFP.
                                                   94 * For long BFP and extended BFP rounding mode tests, ond additional
                                                          test case is included: 4294967294.5. This case rounds down to a
                                                   96 *
                                                          maximum uint-32 and rounds up to overflow; it tests the case where
                                                   97 *
                                                          the input is greater than a maximum uint-32 but rounds to a maximum
                                                   98 *
                                                          uint-32. See Table 19-19 on page 19-26 of SA22-7832-10 for details
                                                   99 *
                                                          on this boundary condition test.
                                                  100 *
                                                  101 * Also tests the following floating point support instructions
                                                          LOAD (Short)
                                                  102 *
                                                  103 *
                                                          LOAD (Long)
                                                  104 *
                                                          LOAD FPC
                                                  105 *
                                                          SRNMB (Set BFP Rounding Mode 2-bit)
                                                  106 *
                                                          SRNMB (Set BFP Rounding Mode 3-bit)
                                                  107 *
                                                          STORE (Short)
                                                  108 *
                                                          STORE (Long)
                                                  109 *
                                                          STORE FPC
                                                  110 *
                                                  111 *
```

				nvert To Logical (uint-32)	17 Aug 2022 11:50:26 Pag	e 3
LOC	OBJECT CODE	ADDR1	ADDR2	STMT		
				112 *****************	***************	*

```
ASMA Ver. 0.2.1 bfp-004-cvttolog: Test IEEE Convert To Logical (uint-32)
                                                                                             17 Aug 2022 11:50:26 Page
 LOC
            OBJECT CODE
                            ADDR1
                                      ADDR2
                                              STMT
                                               114 *
                                               115 *
                                                     Note: for compatibility with the z/CMS test rig, do not change
                                                      or use R11, R14, or R15. Everything else is fair game.
                                               117 *
                                               118 BFPCVTTL START 0
                           00000000
                                     0000784B
                            00000000
                                     00000001
                                               119 R0
                                                           EOU
                                                                 0
                            00000001
                                     00000001
                                               120 R1
                                                           EQU
                                                                 1
                                               121 R2
                                                           EOU
                                     00000001
                            00000002
                                     00000001
                                               122 R3
                                                           EQU
                                                                 3
                            00000003
                                               123 R4
                                                                 4
                           00000004
                                     00000001
                                                           EQU
                                               124 R5
                                                                 5
                            00000005
                                     00000001
                                                           EQU
                            0000006
                                               125 R6
                                                           EOU
                                                                 6
                                     00000001
                                                                 7
                           00000007
                                     00000001
                                               126 R7
                                                           EQU
                                                                 8
                                     00000001
                                               127 R8
                            80000008
                                                           EQU
                            00000009
                                     00000001
                                               128 R9
                                                           EQU
                                                                 9
                                               129 R10
                                                           EQU
                            A000000A
                                     00000001
                                                                 10
                           0000000B
                                     00000001
                                               130 R11
                                                           EOU
                                                                 11
                            000000C
                                     00000001
                                               131 R12
                                                           EQU
                                                                 12
                                                           EOU
                                     00000001
                                               132 R13
                                                                 13
                            000000D
                                     00000001
                                               133 R14
                                                           EQU
                                                                 14
                            000000E
                                    00000001
                                                                 15
                            0000000F
                                               134 R15
                                                           EQU
                                               135 *
                                               136 * Floating Point Register equates to keep the cross reference clean
                                               137 *
                                               138 FPR0
                            00000000
                                    00000001
                                                           EOU
                            00000001
                                     00000001
                                               139 FPR1
                                                           EQU
                                                                 1
                           00000002
                                     00000001
                                               140 FPR2
                                                           EQU
                                                                 2
                           00000003
                                     00000001
                                               141 FPR3
                                                                 3
                                                           EOU
                            00000004
                                     00000001
                                               142 FPR4
                                                           EQU
                                                                 5
                                     00000001
                                               143 FPR5
                                                           EOU
                            00000005
                                                                 6
                           0000006
                                     00000001
                                               144 FPR6
                                                           EQU
                            00000007
                                     00000001
                                               145 FPR7
                                                                 7
                                                           EQU
                            80000008
                                     00000001
                                               146 FPR8
                                                           EQU
                                                                 8
                                                                 9
                           00000009
                                     00000001
                                               147 FPR9
                                                           EQU
                           A000000A
                                     00000001
                                               148 FPR10
                                                           EQU
                                                                 10
                            0000000B
                                     00000001
                                               149 FPR11
                                                           EQU
                                                                 11
                            000000C
                                     00000001
                                               150 FPR12
                                                           EQU
                                                                 12
                                               151 FPR13
                                                           EQU
                            000000D
                                     00000001
                                                                 13
                                                                 14
                           000000E
                                     00000001
                                               152 FPR14
                                                           EOU
                            000000F
                                     00000001
                                               153 FPR15
                                                                 15
                                                           EQU
                                               154 *
0000000
                            00000000
                                               155
                                                           USING *,R15
                            00007480
0000000
                                               156
                                                           USING HELPERS, R12
                                               157 *
                                               158 * Above works on real iron (R15=0 after sysclear)
                                               159 * and in z/CMS (R15 points to start of load module)
                                               160 *
                                               163 *
                                               164 * Low core definitions, Restart PSW, and Program Check Routine.
```

DC

A(XINTRMOF) Extended BFP rounding mode test flags

289

LA

LA

LA

BR

BCTR

R3,4(,R3)

R7,8(,R7) R8,8(,R8)

R2,R12

R13

Point to next input values

Convert next input value.

All converted; return.

Point to next FPCR/CC result area

Point to next int-32 converted value pair

325

326

327

328

329

00000004

8000000

8000000

000003AA 4130 3004

000003AE 4170 7008

000003B2 4180 8008

000003B6 062C

000003B8 07FD

R1,9\*4(,R7)

STFPC 9\*4(R8)

ST

Store uint-32 result

Store resulting FPCR flags and DXC

000004E0

000004E4

5010 7024

B29C 8024

00000024

00000024

440

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LOC	ОВЈЕСТ СО	DE ADDR1	ADDR2	STMT					
				453 *				<pre>************************************</pre>	
				455 * 456 *	for each in with all ex	iput: one cceptions	e with al s trappat	ll exceptions non-trappable, and the second ble. The FPCR and condition code is	
				458 *	<pre>stored for ************************************</pre>			************	
00000504	9823 A000		00000000	461 CL	FDBR LM	R2,R3,	0(R10)	Get count and address of test input values	
00000508	9878 A008		00000008	462	LM	R7,R8,	8(R10)	Get address of result area and flag area.	
0000050C 0000050E	1222 078D			463 464	LTR BZR	R2,R2 R13		Any test cases?No, return to caller	
00000510	070D 0DC0			465	BASI			Set top of loop	
				466 *		,		·	
00000512	6800 3000		00000000	467	LD	FPR0,0		Get long BFP test value	
00000516	B29D F2F4		000002F4	468		FPCREG		Set exceptions non-trappable	
0000051A 0000051E	B39D 0010 5010 7000		0000000	469 470	ST	BR R1,0, R1,0(,		Cvt float in FPR0 to uint-32 in GPR1 Store long BFP result	
00000512	B29C 8000		00000000	471		C 0(R8)		Store resulting FPCR flags and DXC	
00000526				472	IPM	R1		Get condition code and program mask	
	8810 001C		0000001C	473	SRL			Isolate CC in low order byte	
0000052E	4210 8003		00000003	474 475 *	STC	R1,3(,	, K8)	Save condition code as low byte of FPCR	
00000532	B29D F2F8		000002F8	476	LFP	FPCREG	GTR	Set exceptions trappable	
00000536	1711			477	XR	R1,R1		Clear any residual result in R1	
00000538	0410			478	SPM		EDDO 0	Clear out any residual nz condition code	
0000053A 0000053E	B39D 0010 5010 7004		00000004	479 480	ST	BR R1,0, R1,4(,		Cvt float in FPR0 to uint-32 in GPR1 Store int-32 result	
00000532			00000004	481		C 4(R8)		Store resulting FPCR flags and DXC	
00000546				482	IPM	R1		Get condition code and program mask	
0000054A	8810 001C		0000001C	483	SRL			Isolate CC in low order byte	
0000054E	4210 8007		00000007	484 485 *	STC	R1,7(,	,R8)	Save condition code as low byte of FPCR	
00000552	4130 3008		00000008	486	LA	R3,8(,	.R3)	Point to next input values	
00000556			00000008	487	LA	R7,8(,	,R7)	Point to next uint-32 converted value pair	
	4180 8008		8000000	488	LA	R8,8(,	,R8)	Point to next FPCR/CC result area	
0000055E	062C			489	BCTI		<u>)</u>	Convert next input value.	
00000560	07FD			490	BR	R13		All converted; return.	

LFPC FPCREGNT

STFPC 8\*4(R8)

R1

LFPC FPCREGNT

STFPC 9\*4(R8)

R1,28

IPM

SRL

STC

ST

R1,8\*4(,R7)

R1,9\*4(,R7)

CLFDBR R1,6,FPR0,B'0000' RP, to +inf

CLFDBR R1,7,FPR0,B'0000' RM, to -inf

Set exceptions non-trappable, clear flags

Set exceptions non-trappable, clear flags

Store resulting FPCR flags and DXC Get condition code and program mask

Store resulting FPCR flags and DXC

Isolate CC in low order byte

R1,(8\*4)+3(,R8) Save condition code as low byte of FPCR

Store uint-32 result

Store uint-32 result

590 \*

591

592

593

594

595

596

597

599

600

601

602

598 \*

000002F4

00000020

00000020

0000001C

00000023

000002F4

00000024

00000024

00000664

00000668

0000066C

00000670

00000674

00000678

00000680

00000684

00000688

0000068C

0000067C 4210 8023

B29D F2F4

B39D 6010

5010 7020

B29C 8020

B222 0010

8810 001C

B29D F2F4

B39D 7010

5010 7024

B29C 8024

LA

BR

R8,8(,R8)

BCTR R2,R12

R13

Point to next FPCR/CC result area

Convert next input value.

All converted; return.

650

651

652

8000000

00000706 4180 8008

0000070A 062C

0000070C 07FD

OC OBJECT CODE	ADDR1	ADDR2	STMT		
			QQ7 *********	******	************
			888 *	ACTUAL results	
			889 *******	******	************
			890 *		
			891 *	Locations for AC	TUAL results
			892 *		
	00001000	9999999	893 * 894 SINTOUT EQU	BFPCVTTL+X'1000'	uint-32 values from short BFP
	00001000	0000000	895 *	DIFCVIIL+X 1000	9 pairs used, room for 16
	00001100	00000000	896 SINTFLGS EQU	BFPCVTTL+X'1100'	FPCR flags and DXC from short BFP
			897 *		9 pairs used, room for 16
	00001200	00000000	898 SINTRMO EQU	BFPCVTTL+X'1200'	Short rounding mode test results
	00001600	00000000	899 * 900 SINTRMOF EQU	BFPCVTTL+X'1600'	10 sets used, room for 20 Short rounding mode FPCR contents
	00001000	00000000	901 *	DEACALIFTY 1000	10 sets used, room for 20
			902 *		
	00002000	00000000	903 LINTOUT EQU	BFPCVTTL+X'2000'	uint-32 values from long BFP
			904 *		9 pairs used, room for 16
	00002100	00000000	905 LINTFLGS EQU	BFPCVTTL+X'2100'	FPCR flags and DXC from long BFP
	00002200	00000000	906 * 907 LINTRMO EQU	BFPCVTTL+X'2200'	9 pairs used, room for 16 Long rounding mode test results
	00002200	0000000	908 *	DIFCVIIL+X 2200	10 sets used, room for 20
	00002600	00000000	909 LINTRMOF EQU	BFPCVTTL+X'2600'	Long rounding mode FPCR contents
			910 *		10 sets used, room for 20
	0000000	0000000	911 *	DEDCUTTL VIDEOU	
	00003000	00000000	912 XINTOUT EQU 913 *	BFPCVTTL+X'3000'	uint-32 values from extended BFP
	00003100	00000000	914 XINTFLGS EQU	BFPCVTTL+X'3100'	9 pairs used, room for 16 FPCR flags and DXC from extended BFP
	00005100	0000000	915 *	DITEVITEIX SIOO	9 pairs used, room for 16
	00003200	00000000	916 XINTRMO EQU	BFPCVTTL+X'3200'	Extended rounding mode test results
			917 *		10 sets used, room for 20
	00003600	00000000	918 XINTRMOF EQU	BFPCVTTL+X'3600'	Extended rounding mode FPCR contents
			919 * 920 *		10 sets used, room for 20
			320		

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
0004530	00000002 00000001				DC XL16'00000002000000010000000200000001'			
	C3D3C6C5 C2D940F1				DC CL48'CLFEBR 1.5 M3 modes 6, 7'			
	00000002 00000001				DC XL16'0000000200000010000000000000000000000			
0004580 00045B0	C3D3C6C5 C2D940F2				DC CL48'CLFEBR 2.5 FPC modes 1-3, 7'			
	00000002 00000003 C3D3C6C5 C2D940F2				DC XL16'00000002000000030000000200000003' DC CL48'CLFEBR 2.5 M3 modes 1, 3-5'			
00045E0	00000003 00000003				DC XL16'00000003000000030000000200000002'			
					DC CL48'CLFEBR 2.5 M3 modes 6, 7'			
	0000003 00000002				DC XL16'00000030000000200000000000000000'			
	C3D3C6C5 C2D940F5				DC CL48'CLFEBR 5.5 FPC modes 1-3, 7'			
0004670	00000005 00000006				DC XL16'00000005000000060000000500000005'			
	C3D3C6C5 C2D940F5				DC CL48'CLFEBR 5.5 M3 modes 1, 3-5'			
00046B0	00000006 00000005				DC XL16'000000060000000500000000600000005'			
	C3D3C6C5 C2D940F5				DC CL48'CLFEBR 5.5 M3 modes 6, 7'			
	00000006 00000005				DC XL16'00000060000000500000000000000000'			
10004700 10004730	C3D3C6C5 C2D940F9 0000000A				DC CL48'CLFEBR 9.5 FPC modes 1-3, 7' DC XL16'0000000900000000000000090000009'			
					DC CL48'CLFEBR 9.5 M3 modes 1, 3-5'			
0004740	0000000A 00000009				DC XL16'0000000A00000000000000000000000000000			
	C3D3C6C5 C2D940F9				DC CL48'CLFEBR 9.5 M3 modes 6, 7'			
	000000A 0000009				DC XL16'000000A0000009000000000000000000			
	C3D3C6C5 C2D94094				DC CL48'CLFEBR max FPC modes 1-3, 7'			
					DC XL16'FFFFFF00FFFFFF00FFFFFF00'			
	C3D3C6C5 C2D94094				DC CL48'CLFEBR max M3 modes 1, 3-5'			
	FFFFFF00 FFFFFF00				DC XL16'FFFFFF00FFFFFF00FFFFFF00'			
	C3D3C6C5 C2D94094				DC CL48'CLFEBR max M3 modes 6, 7'			
	FFFFFF00 FFFFFF00				DC XL16'FFFFFF00FFFFFF00000000000000000000000			
	C3D3C6C5 C2D940F0				DC CL48'CLFEBR 0.75 FPC modes 1-3, 7'			
00048B0	00000000 00000001 C3D3C6C5 C2D940F0				DC XL16'00000000000000010000000000000001' DC CL48'CLFEBR 0.75 M3 modes 1, 3-5'			
	00000001 00000001				DC XL16'000000100000010000001000000000000000			
	C3D3C6C5 C2D940F0				DC CL48'CLFEBR 0.75 M3 modes 6, 7'			
	0000001 0000000				DC XL16'000000010000000000000000000000000000			
					DC CL48'CLFEBR 0.25 FPC modes 1-3, 7'			
0004970	00000000 00000001				DC XL16'000000000000000100000000000000001'			
0004980	C3D3C6C5 C2D940F0			1013	DC CL48'CLFEBR 0.25 M3 modes 1, 3-5'			
	00000000 00000001				DC XL16'000000000000000100000000000000000000			
	C3D3C6C5 C2D940F0				DC CL48'CLFEBR 0.25 M3 modes 6, 7'			
00049F0	00000001 00000000	00000015	0000001		DC XL16'000000100000000000000000000000000000			
		0000001E	00000001		SINTRMO_NUM EQU (*-SINTRMO_GOOD)/64			
				1018 1019				
		99991199	00000001		SINTRMOF GOOD EQU *			
0004400	C3D3C6C5 C2D94060	OUU HOU	2000001		DC CL48'CLFEBR -1.5 FPC modes 1-3, 7 FPCR'			
					DC XL16'00800003008000030080000300800003'			
	C3D3C6C5 C2D94060				DC CL48'CLFEBR -1.5 M3 modes 1, 3-5 FPCR'			
					DC XL16'00880003008800030088000300880003'			
	C3D3C6C5 C2D94060			1025	DC CL48'CLFEBR -1.5 M3 modes 6, 7 FPCR'			
	00880003 00880003				DC XL16'0088000300880003000000000000000000000			
	C3D3C6C5 C2D94060				DC CL48'CLFEBR -0.5 FPC modes 1-3, 7 FPCR'			
	00000001 00000001				DC XL16'00000001000000010080000300800003'			
	C3D3C6C5 C2D94060				DC CL48'CLFEBR -0.5 M3 modes 1, 3-5 FPCR'			
0004B30	00880003 00880003				DC XL16'008800030088000300080001'			
	C3D3C6C5 C2D94060 00080001 00880003				DC CL48'CLFEBR -0.5 M3 modes 6, 7 FPCR' DC XL16'000800010088000300000000000000000000000			
MMM/IR /M	CONDONAT ANDORROS			TODE	DC VETO OOOOOOTOOOOOOOOOOOOOOOOOOOOOO			

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
00005230	00000000 00000000				DC XL16'0000000000000000FFFFFFF00000000'			
00005240					DC CL48'CLFDBR result pairs 7-8'			
00005270					DC XL16'FFFFFFFFFFFFFFF9000000100000001'			
	C3D3C6C4 C2D94099				DC CL48'CLFDBR result pair 9'			
000052B0	00000000 00000000				DC XL16'000000000000000000000000000000000000			
		00000005	00000001		LINTOUT_NUM EQU (*-LINTOUT_GOOD)/64			
				1096				
				1097				
	62526664 62504066	000052C0	00000001	1098	LINTFLGS_GOOD EQU *			
000052C0	C3D3C6C4 C2D940C6				DC CL48 CLFDBR FPC pairs 1-2'			
000052F0					DC XL16'00000002F800000200000002F8000002'			
00005300					DC CL48'CLFDBR FPC pairs 3-4'			
00005330					DC XL16'00000002F800000200880003F8008000'			
00005340 00005370					DC CL48'CLFDBR FPC pairs 5-6' DC XL16'00880003F800800000880003F8008000'			
00005380								
000053B0					DC CL48'CLFDBR FPC pairs 7-8' DC XL16'00080002F800080200080002F8000C02'			
	C3D3C6C4 C2D940C6				DC CL48'CLFDBR FPC pair 9'			
	00080002 F8000802				DC XL16'00080002F8000802000000000000000000			
00003310	00080002 18000802	00000005	00000001		LINTFLGS NUM EQU (*-LINTFLGS GOOD)/64			
		0000000	00000001	1110				
				1111				
		00005400	00000001		LINTRMO_GOOD EQU *			
00005400	C3D3C6C4 C2D94060	00005400	00000001	1113	DC CL48'CLFDBR -1.5 FPC modes 1-3, 7'			
00005430	0000000 00000000				DC XL16'000000000000000000000000000000000000			
00005440	C3D3C6C4 C2D94060				DC CL48'CLFDBR -1.5 M3 modes 1, 3-5'			
00005470					DC XL16'00000000000000000000000000000000000			
00005480					DC CL48'CLFDBR -1.5 M3 modes 6, 7'			
000054B0					DC XL16'000000000000000000000000000000000000			
000054C0					DC CL48'CLFDBR -0.5 FPC modes 1-3, 7'			
000054F0	00000000 00000000				DC XL16'000000000000000000000000000000000000			
00005500				1121	DC CL48'CLFDBR -0.5 M3 modes 1, 3-5'			
00005530	00000000 00000000			1122	DC XL16'000000000000000000000000000000000000			
00005540	C3D3C6C4 C2D94060			1123	DC CL48'CLFDBR -0.5 M3 modes 6, 7'			
00005570	00000000 00000000			1124	DC XL16'000000000000000000000000000000000000			
	C3D3C6C4 C2D940F0			1125	DC CL48'CLFDBR 0.5 FPC modes 1-3, 7'			
000055B0	00000000 00000001				DC XL16'0000000000000010000000000000001'			
	C3D3C6C4 C2D940F0				DC CL48'CLFDBR 0.5 M3 modes 1, 3-5'			
000055F0					DC XL16'000000100000001000000000000000000000			
	C3D3C6C4 C2D940F0				DC CL48'CLFDBR 0.5 M3 modes 6, 7'			
	00000001 00000000				DC XL16'00000010000000000000000000000000000			
	C3D3C6C4 C2D940F1				DC CL48'CLFDBR 1.5 FPC modes 1-3, 7'			
	00000001 00000002				DC XL16'0000001000000200000010000001'			
	C3D3C6C4 C2D940F1				DC CL48'CLFDBR 1.5 M3 modes 1, 3-5'			
000056B0					DC XL16'000000200000010000000200000001'			
	C3D3C6C4 C2D940F1				DC CL48'CLFDBR 1.5 M3 modes 6, 7'			
	00000002 00000001				DC XL16'000000200000010000000000000000'			
	C3D3C6C4 C2D940F2				DC CL48'CLFDBR 2.5 FPC modes 1-3, 7'			
	00000002 00000003				DC XL16'00000002000000030000000200000003'			
	C3D3C6C4 C2D940F2				DC CL48'CLFDBR 2.5 M3 modes 1, 3-5'			
00005770					DC XL16'000000300000030000000200000002'			
	C3D3C6C4 C2D940F2				DC CL48'CLFDBR 2.5 M3 modes 6, 7'			
	00000003 00000002				DC XL16'000000300000020000000000000000'			
	C3D3C6C4 C2D940F5 00000005 00000006				DC CL48'CLFDBR 5.5 FPC modes 1-3, 7' DC XL16'00000005000000060000000500000005'			
	C3D3C6C4 C2D940F5				DC CL48'CLFDBR 5.5 M3 modes 1, 3-5'			
ששסכשששש	C3D3C0C4 C2D340F3			1145	DC CL40 CLTDDN 3.3 PID IIIUUES 1, 3-3			

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
00005830	00000006 00000005				DC XL16'000000060000000500000000600000005'			
00005840 00005870	C3D3C6C4 C2D940F5 00000006 00000005				DC CL48'CLFDBR 5.5 M3 modes 6, 7'			
00005880	C3D3C6C4 C2D940F9				DC XL16'0000000600000005000000000000000000000			
00058B0	00000009 0000000A				DC XL16'000000900000000000000090000009'			
00058C0	C3D3C6C4 C2D940F9				DC CL48'CLFDBR 9.5 M3 modes 1, 3-5'			
00058F0	0000000A 00000009				DC XL16'0000000A0000000900000000A00000009'			
0005900	C3D3C6C4 C2D940F9				DC CL48'CLFDBR 9.5 M3 modes 6, 7'			
0005930	0000000A 00000009				DC XL16'0000000A00000000000000000000000000000			
00005940 00005970	C3D3C6C4 C2D94094 FFFFFFFF FFFFFFFFFFFFFFFFFFFFFFFFF				DC CL48'CLFDBR max FPC modes 1-3, 7' DC XL16'FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF			
00005980	C3D3C6C4 C2D94094				DC CL48'CLFDBR max M3 modes 1, 3-5'			
00059B0	FFFFFFF FFFFFFF				DC XL16'FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF			
000059C0	C3D3C6C4 C2D94094				DC CL48'CLFDBR max M3 modes 6, 7'			
000059F0	FFFFFFF FFFFFFF				DC XL16'FFFFFFFFFFFFFFF000000000000000000000			
0005A00	C3D3C6C4 C2D940F0				DC CL48'CLFDBR 0.75 FPC modes 1-3, 7'			
00005A30 00005A40	00000000 00000001 C3D3C6C4 C2D940F0				DC XL16'00000000000000010000000000000001' DC CL48'CLFDBR 0.75 M3 modes 1, 3-5'			
00005A40	00000001 00000001				DC XL16'000000100000010000001000000000000000			
00005A70	C3D3C6C4 C2D940F0				DC CL48'CLFDBR 0.75 M3 modes 6, 7'			
00005AB0	00000001 00000000				DC XL16'000000100000000000000000000000000000			
0005AC0	C3D3C6C4 C2D940F0				DC CL48'CLFDBR 0.25 FPC modes 1-3, 7'			
0005AF0	00000000 00000001				DC XL16'00000000000000010000000000000001'			
0005B00	C3D3C6C4 C2D940F0				DC CL48'CLFDBR 0.25 M3 modes 1, 3-5'			
00005B30 00005B40	00000000 00000001 C3D3C6C4 C2D940F0				DC XL16'000000000000000100000000000000000000			
00005B70	0000001 0000000				DC XL16'000000100000000000000000000000000000			
		0000001E	00000001		LINTRMO NUM EQU (*-LINTRMO GOOD)/64			
				1174				
		00005000	00000001	1175				
00005B80	C3D3C6C4 C2D94060	00005B80	00000001		LINTRMOF_GOOD EQU * DC CL48 CLFDBR -1.5 FPC modes 1-3, 7 FPCR'			
	00800003 00800003				DC XL16'00800003008000030080000300800003'			
					DC CL48'CLFDBR -1.5 M3 modes 1, 3-5 FPCR'			
00005BF0	00880003 00880003				DC XL16'00880003008800030088000300880003'			
00005C00	C3D3C6C4 C2D94060				DC CL48'CLFDBR -1.5 M3 modes 6, 7 FPCR'			
00005C30	00880003 00880003				DC XL16'00880003008800030000000000000000000000			
00005C40					DC CL48'CLFDBR -0.5 FPC modes 1-3, 7 FPCR'			
00005C70 00005C80	00000001 00000001 C3D3C6C4 C2D94060				DC XL16'0000000100000010080000300800003' DC CL48'CLFDBR -0.5 M3 modes 1, 3-5 FPCR'			
0005CB0	00880003 00880003				DC XL16'00880003008800030008000100080001'			
0005CC0	C3D3C6C4 C2D94060				DC CL48'CLFDBR -0.5 M3 modes 6, 7 FPCR'			
00005CF0	00080001 00880003			1188	DC XL16'00080001008800030000000000000000000			
0005D00	C3D3C6C4 C2D9404E				DC CL48'CLFDBR +0.5 FPC modes 1-3, 7 FPCR'			
0005D30	00000002 00000002				DC XL16'000000020000000200000002'			
00005D40 00005D70	C3D3C6C4 C2D9404E 00080002				DC CL48'CLFDBR +0.5 M3 modes 1, 3-5 FPCR' DC XL16'00080002000800020008000200080002'			
00005D70	C3D3C6C4 C2D9404E				DC CL48'CLFDBR +0.5 M3 modes 6, 7 FPCR'			
00005DB0	00080002 00080002				DC XL16'00080002000800020000000000000000000000			
00005DC0	C3D3C6C4 C2D9404E			1195	DC CL48'CLFDBR +1.5 FPC modes 1-3, 7 FPCR'			
00005DF0	00000002 00000002				DC XL16'00000002000000020000000200000002'			
00005E00	C3D3C6C4 C2D9404E				DC CL48'CLFDBR +1.5 M3 modes 1, 3-5 FPCR'			
2000552	00080002 00080002				DC XL16'00080002000800020008000200080002' DC CL48'CLFDBR +1.5 M3 modes 6, 7 FPCR'			
0005E30	C3D3C6C4 $C3D0404E$							
00005E30 00005E40 00005E70	C3D3C6C4 C2D9404E 00080002				DC XL16'00080002000800020000000000000000000000			

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT				
000064B0	00000002 F8000002				DC XL16'00000002F800000200880003F8008000'			
00064C0	C3D3C6E7 C2D940C6			1259	DC CL48'CLFXBR FPC pairs 5-6'			
00064F0	00880003 F8008000			1260	DC XL16'00880003F800800000880003F8008000'			
0006500	C3D3C6E7 C2D940C6			1261	DC CL48'CLFXBR FPC pairs 7-8'			
0006530	00080002 F8000802			1262	DC XL16'00080002F800080200080002F8000C02'			
0006540	C3D3C6E7 C2D940C6				DC CL48'CLFXBR FPC pair 9'			
0006570	00080002 F8000802			1264	DC XL16'00080002F800080200000000000000000'			
		00000005	00000001		XINTFLGS_NUM EQU (*-XINTFLGS_GOOD)/64			
				1266				
				1267				
		00006580	00000001		XINTRMO_GOOD EQU *			
0006580					DC CL48'CLFXBR -1.5 FPC modes 1-3, 7'			
00065B0	00000000 00000000				DC XL16'000000000000000000000000000000000000			
	C3D3C6E7 C2D94060				DC CL48'CLFXBR -1.5 M3 modes 1, 3-5'			
	00000000 00000000				DC XL16'000000000000000000000000000000000000			
	C3D3C6E7 C2D94060 000000000				DC CL48'CLFXBR -1.5 M3 modes 6, 7' DC XL16'000000000000000000000000000000000000			
	C3D3C6E7 C2D94060 000000000				DC CL48'CLFXBR -0.5 FPC modes 1-3, 7' DC XL16'000000000000000000000000000000000000			
	C3D3C6E7 C2D94060				DC CL48'CLFXBR -0.5 M3 modes 1, 3-5'			
	00000000 00000000				DC XL16'000000000000000000000000000000000000			
					DC CL48'CLFXBR -0.5 M3 modes 6, 7'			
					DC XL16'000000000000000000000000000000000000			
	C3D3C6E7 C2D940F0				DC CL48'CLFXBR 0.5 FPC modes 1-3, 7'			
0006730	00000000 00000001				DC XL16'000000000000000100000000000000001'			
	C3D3C6E7 C2D940F0				DC CL48'CLFXBR 0.5 M3 modes 1, 3-5'			
	00000001 00000001				DC XL16'00000010000001000000000000000000000			
					DC CL48'CLFXBR 0.5 M3 modes 6, 7'			
000067B0	00000001 00000000			1286	DC XL16'000000010000000000000000000000000000			
000067C0	C3D3C6E7 C2D940F1			1287	DC CL48'CLFXBR 1.5 FPC modes 1-3, 7'			
000067F0	00000001 00000002			1288	DC XL16'00000001000000020000000100000001'			
	C3D3C6E7 C2D940F1				DC CL48'CLFXBR 1.5 M3 modes 1, 3-5'			
	00000002 00000001				DC XL16'00000002000000010000000200000001'			
	C3D3C6E7 C2D940F1				DC CL48'CLFXBR 1.5 M3 modes 6, 7'			
	00000002 00000001				DC XL16'000000020000000100000000000000000000			
	C3D3C6E7 C2D940F2				DC CL48'CLFXBR 2.5 FPC modes 1-3, 7'			
	00000002 00000003				DC XL16'00000002000000030000000200000003'			
	C3D3C6E7 C2D940F2				DC CL48'CLFXBR 2.5 M3 modes 1, 3-5'			
	00000003 00000003				DC XL16'0000003000000030000000200000002'			
	C3D3C6E7 C2D940F2				DC CL48'CLFXBR 2.5 M3 modes 6, 7'			
	00000003 00000002 C3D3C6E7 C2D940F5				DC XL16'0000003000000020000000000000000'			
	00000005 00000006				DC CL48'CLFXBR 5.5 FPC modes 1-3, 7' DC XL16'00000005000000000000000500000005'			
	C3D3C6E7 C2D940F5				DC CL48'CLFXBR 5.5 M3 modes 1, 3-5'			
	00000006 00000005				DC XL16'0000006000000050000000600000005'			
	C3D3C6E7 C2D940F5				DC CL48'CLFXBR 5.5 M3 modes 6, 7'			
	00000006 00000005				DC XL16'0000006000000050000000000000000000000			
	C3D3C6E7 C2D940F9				DC CL48'CLFXBR 9.5 FPC modes 1-3, 7'			
	00000009 0000000A				DC XL16'00000009000000000000000090000009'			
	C3D3C6E7 C2D940F9				DC CL48'CLFXBR 9.5 M3 modes 1, 3-5'			
	0000000A 0000009				DC XL16'0000000A0000000900000000A00000009'			
	C3D3C6E7 C2D940F9				DC CL48'CLFXBR 9.5 M3 modes 6, 7'			
	0000000A 0000009				DC XL16'0000000A000000900000000000000000000			
	C3D3C6E7 C2D94094				DC CL48'CLFXBR max FPC modes 1-3, 7'			
	FFFFFFF FFFFFFF				DC XL16'FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF			
	C3D3C6E7 C2D94094				DC CL48'CLFXBR max M3 modes 1, 3-5'			

000076BC

000076BC

0000000C 1510

000075F8 1512

00000035 1514

00007690 1515

000076FA 1516

1511

000076C4

000075C6

000075CC

000075D0

000075D6 4100 0035

000075DA 4110 C210

000075DE 4520 C27A

F384 C23C 500C

DC07 C23C C178

9240 C244

UNPK

MVI

TR

LA

LA

BAL

FAILVALS+(3\*9)(9),(3\*4)(5,R5)

R0 <== length of message

Go display this message

R1 --> the message text itself

FAILVALS+(3\*9)(8), HEXTRTAB

FAILVALS+(3\*9)+8,C' '

R0,L'FAILMSG2

R1, FAILMSG2

R2,MSG

CHARHEX-X'F0'

X'00'

Hexadecimal translation table

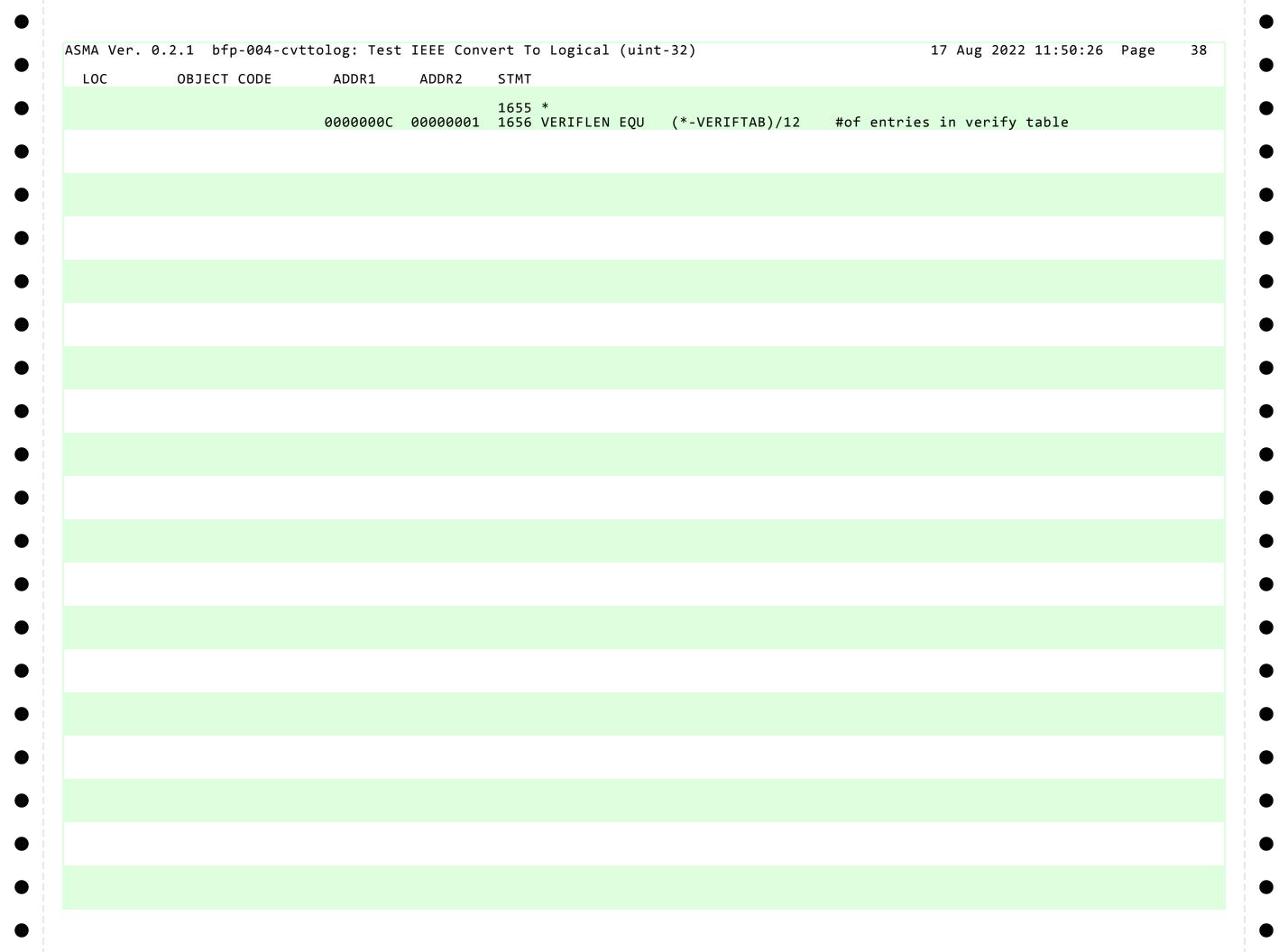
FF = Fail, 00 = Success

000075F8 00000010 1563 HEXTRTAB EOU

1564 FAILFLAG DC

000076F8 00

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
				1567 *	Issue	**************************************	**************************************
000076FA	4900 C3BC		0000783C	1570 MSG	СН	R0,=H'0'	Do we even HAVE a message?
000076FE	07D2			1571	BNHR	R2	No, ignore
00007700	9002 C2B0		00007730	1573	STM	R0,R2,MSGSAVE	Save registers
	4900 C3BE 47D0 C290 4100 005F		0000783E 00007710 0000005F	1575 1576 1577	CH BNH LA	R0,=AL2(L'MSGMSG) MSGOK R0,L'MSGMSG	Message length within limits? Yes, continue No, set to maximum
00007710	1820			1579 MSGOK	LR	R2,R0	Copy length to work register
00007712	0620 4420 C2BC		0000773C	1580	BCTR EX		Minus-1 for execute Copy message to O/P buffer
	4120 200A 4110 C2C2		0000000A 00007742	1583 1584	LA LA	R2,1+L'MSGCMD(,R2) R1,MSGCMD	Calculate true command length Point to true command
00007720 00007724 00007728	83120008 4780 C2AA 0000		0000772A	1586 1587 1588	DC BZ DC	X'83',X'12',X'0008' MSGRET H'0'	Issue Hercules Diagnose X'008' Return if successful CRASH for debugging purposes
0000772A 0000772E	9802 C2B0 07F2		00007730	1590 MSGRET 1591	LM BR	R0,R2,MSGSAVE R2	Restore registers Return to caller
	00000000 00000000 D200 C2CB 1000	0000774B	00000000	1593 MSGSAVE 1594 MSGMVC	DC MVC	3F'0' MSGMSG(0),0(R1)	Registers save area Executed instruction
	D4E2C7D5 D6C8405C 40404040 40404040			1596 MSGCMD 1597 MSGMSG	DC DC	C'MSGNOH * ' CL95' '	*** HERCULES MESSAGE COMMAND *** The message text to be displayed
00007742 0000774B							



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ос	OBJECT CODE	ADDR1	ADDR2	STMT			
0783E	0000 005F E68195A3 7A40			1658 1659 1660 1661	END =H'0' =AL2(L'MSGMSG) =CL6'Want: '		
07846	C796A37A 4040			1662	=CL6'Got: '		

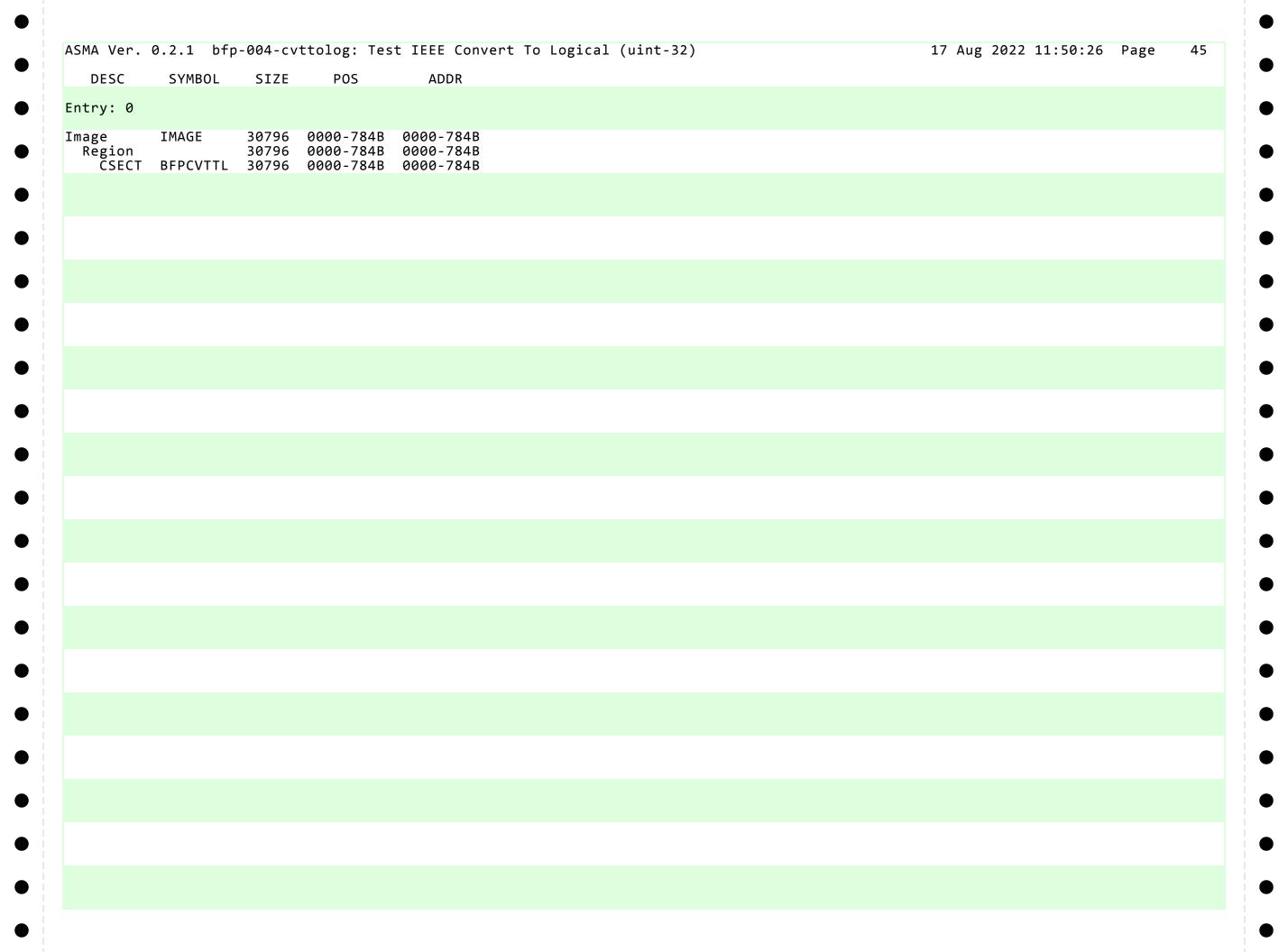
	·	-cvttolo					gicai	(uint-	32)					1/ Aug	2022	11:50:	26 Pa	ge 4
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES												
ACTUAL	F	0076CC	4	1560	1487	1522												
EXPECT	F	0076C8	4	1559	1489	1494												
HELPERS	Α	00027C	4	201	191	238												
FPCVTTL	J	000000	30796	118	168	171	173	176	184	894	896	898	900	903	905	907	909	912
					914	916	918	926										
LANKEQ	C	00769E	3	1556	1495	1523												
HARHEX	C	0076E8	16	1562	1563													
LFDBR	I	000504	4	461	223													
CLFDBRA	I	000562	4	511	225													
CLFEBR	I	00035C	4	300	216													
CLFEBRA	I	0003BA	4	350	218													
CLFXBR	I	0006AC	4	622	230													
CLFXBRA	I	00070E	4	673	232													
TLR0	F	0002F0	4	248	209	210	211											
XTDS	F	00031C	4	270	229													
AIL	I	000238	4	199	1455													
AILADR	C	007696	8	1555	1494	1496	1522	1524										
AILDESC	C	007660	48	1551	1480													
AILFLAG	X	0076F8	1	1564	1453	1476												
AILMSG1	C	00764C	68	1549	1481	1482												
AILMSG2	C	007690	53	1553	1514	1515	1542	1543										
AILPSW	Χ	0002E0	8	246	199													
FAILVALS	C	0076A1	36	1557	1498	1499	1500	1502	1503	1504	1506	1507	1508	1510	1511	1512	1526	1527
					1528	1530	1531	1532	1534	1535	1536	1538	1539	1540				
PCREGNT	Χ	0002F4	4	249	307	360	369	378	387	398	406	414	422	430	438	468	521	530
					539	548	559	567	575	583	591	599	630	684	693	702	711	722
					730	738	746	754	762									
PCREGTR	Χ	0002F8	4	250	315	476	638											
PR0	U	000000	1	138	306	308	318	356	362	371	380	389	399	407	415	423	431	439
					467	469	479	517	523	532	541	550	560	568	576	584	592	600
					628	631	641	679	686	695	704	713	723	731	739	747	755	763
PR1	U	000001	1	139														
PR10	U	A00000	1															
PR11	U	00000B	1	149														
PR12	U	00000C	1	150														
PR13	U	00000D	1	151														
PR14	U	00000E	1	152														
PR15	U	00000F	1	153														
PR2	U	000002	1	140	629	680												
PR3	U	000003	1	141														
PR4	U	000004	1	142														
PR5	U	000005	1	143														
PR6	U	000006	1	144														
PR7	U	000007	1	145														
PR8	U	000008	1	146														
PR9	U	000009	1	147														
GOODPSW	X	0002D0	8	245	242													
	Н	007480	2	1395	156	201												
HELPERS	U	0075F8	16	1563	1404 1540	1408	1412	1416	1420	1496	1500	1504	1508	1512	1524	1528	1532	1536
IELPERS		000000	30796	0	1340													
IELPERS IEXTRTAB	1	999999		_														
HELPERS HEXTRTAB HAGE	1 U		1	834	265													
HELPERS HEXTRTAB EMAGE LBFPCT	1 U F	000048	1	834 820	265 834	266												
HELPERS HEXTRTAB MAGE BFPCT BFPIN		000048 0008A8	1 4	820	834	266 282												
ELPERS EXTRTAB MAGE BFPCT		000048	1			266 282												

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES												
NTELOG COOP		005060	4	1000	1100	1620												
NTFLGS_GOOD	U	0052C0	1	1098	1109	1629												
NTFLGS_NUM	U	000005	1	1109	1630													
NTOUT	U	002000	0	903	267	1624												
NTOUT GOOD	U	005180	1	1084	1095	1625												
NTOUT NUM	U	000005	1	1095	1626													
NTRMO	Ü	002200	0	907	283	1632												
NTRMOF	ij	002600	0	909	284	1636												
	U																	
NTRMOF_GOOD	U	005B80	1	1176	1237	1637												
NTRMOF_NUM	U	00001E	1	1237	1638													
NTRMO_GOOD	U	005400	1	1112	1173	1633												
NTRMO_NUM	U	00001E	1	1173	1634													
NGS _	F	00030C	4	264	222													
ĵ .	I	0076FA	4	1570	1424	1483	1516	1544										
GCMD	_	007742	9	1596	1583	1584												
GMSG	C	00774B	95	1597	1577	1594	1575											
GMVC	T	00774B 00773C	9.5 C	1594	1581	± J J 4	<b>1</b> <i>J</i> / <i>J</i>											
	+ +		Ö															
30K		007710	2	1579	1576													
GRET	Ţ	00772A	4	1590	1587													
SSAVE	F	007730	4	1593	1573	1590												
INTCD	Н	00008E	2	169	186	1402												
NOTDTA	I	00020C	4	190	187													
DLDPSW	U	000150	0	171	188	1406	1410	1414	1418									
1CK	Н	007480	2	1401	192													
1COMMA	C	0074F6	1	1431	1403													
1PSW	C	0074FC	36	1433	1406	1407	1408	1410	1411	1412	1/1/	1/115	1416	1/110	1419	1/20		
OGCHK	Н	000200		185	177	1407	1400	1410	1711	1712	<b>_</b>	1713	1410	1410	1717	1420		
	П		2			1 4 0 4												
OGCODE	C	0074F2	4	1430	1402	1404												
OGMSG	Ċ	0074DE	66	1428	1422	1423												
OGPSW	D	000228	8	198	197													
	U	000000	1	119	190	193	209	211	1422	1475	1481	1514	1542	1546	1570	1573	1575	1577
					1579	1590												
	U	000001	1	120	308	309	311	312	313	316	317	318	319	321	322	323	362	363
					365	366	367	371	372	374	375	376	380	381	383	384	385	389
					390	392	393	394	399	400	402	403	404	407	408	410	411	412
					415	416	418	419	420	423	424	426	427	428	431	432	434	435
					436	439	440	442	443	444	469	470	472	473	474	477	478	479
					480	482	483	484	523	524	526	527	528	532	533	535	536	537
					541	542	544	545	546	550	551	553	554	555	560	561	563	564
					565	568	569	571	572	573	576	577	579	580	581	584	585	587
					588	589	592	593	595	596	597	600	601	603	604	605	631	632
					634	635	636	639	640	641	642	644	645	646	686	687	689	690
					691	695	696	698	699	700	704	705	707	708	709	713	714	716
					717	718	723	724	726	727	728	731	732	734	735	736	739	740
					742	743	744	747	748	750	751	752	755	756	758	759	760	763
					764	766	767	768	1423	1444	1448	1450	1482	1515	1543	1584	1594	, 05
9	U	00000A	1	129	215	217	222	224	229	231	300	301	350	351	461	462	511	512
,	U	ABBBBB	т	123					223	231	ששכ	201	שנכ	221	401	402	211	217
		000000		120	622	623	673	674										
L	U	00000B	1	130	4			2.2.	222	a = .								
2	U	00000C	1	131	156	191	238	304	328	354	449	465	489	515	610	626	651	677
					773													
3	U	00000D	1	132	192	216	218	223	225	230	232	239	303	329	353	450	464	490
					514	611	625	652	676	774	1426	1454						
4	U	00000E	1	133	195	196	240	241										
5	Ü	00000F	1	134	155	190	193											
	Ŭ	000002	1	121	300	302	328	350	352	449	461	463	489	511	513	610	622	624

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFER	ENCES												
					1581	1583	1590	1591										
.3	U	000003	1	122	300	306	325	350	356	446	461	467	486	511	517	607	622	628
					629	648	673	679	680	770	1446	1451						
4	U	000004	1	123	1448	1463	1465	1487	1526	1530	1534	1538						
15	U	000005	1	124	1463	1466	1475	1480	1488	1489	1498	1502	1506	1510	1546			
16 17	U U	000006 000007	1 1	125 126	1448 301	1467 309	319	326	351	363	372	381	390	400	408	416	424	432
. /	U	000007	<b>T</b>	120	440	447	462	470	480	487	512	524	533	542	551	561	569	577
					585	593	601	608	623	632	642	649	674	687	696	705	714	724
					732	740	748	756	764	771	1449	1469						
88	U	000008	1	127	301	310	313	320	323	327	351	364	367	373	376	382	385	391
					394	401	404	409	412	417	420	425	428	433	436	441	444	448
					462 555	471 562	474 565	481 570	484 573	488 578	512 581	525 586	528 589	534 594	537 597	543 602	546 605	552 609
					623	633	636	643	646	650	674	688	691	697	700	706	709	715
					718	725	728	733	736	741	744	749	752	757	760	765	768	772
					1461	1467		<b>-</b>		- 1 <b>-</b>						<del>-</del>		- <del>-</del>
19	U	000009	1	128														
MEXTDS	Α	00034C	4	286	231													
RMLONGS	A	00033C	4	281	224													
RMSHORTS SAVERØR5	A	00032C 0076D0	4 4	276 1561	217 1475	1546												
SAVEREGS	, F	0070D0 00023C	4	200	190	193												
BEPCT	Ü	000024	1	800	259	100												
BFPIN	F	00085C	4	788	800	260												
SBFPINRM	F	000880	4	804	816	277												
SBFPRMCT	ñ	000028	1	816	276													
SHORTS	F	0002FC	4	258	215 262	1612												
SINTFLGS SINTFLGS GOOD	U	001100 004140	0	896 942	953	1612 1613												
SINTFLGS_GOOD	IJ	000005	1	953	1614	1013												
SINTOUT	Ŭ	001000	ō	894	261	1608												
SINTOUT_GOOD	U	004000	1	928	939	1609												
SINTOUT_NUM	U	000005	1	939	1610													
SINTRMO	U	001200	0	898	278	1616												
SINTRMOF	U	001600	0	900	279	1620												
SINTRMOF_GOOD SINTRMOF_NUM	U II	004A00 00001E	1 1	1020 1081	1081 1622	1621												
SINTRMO GOOD	IJ	004280	1	956	1017	1617												
SINTRMO_NUM	Ü	00001E	_ 1	1017	1618													
START	I	000280	4	209	174													
/ERIFAIL	I	00755A	4	1475	1464													
/ERIFLEN	U	00000C	1	1656	1445	1 1 1 1												
'ERIFTAB 'ERIFY	F T	0077AC 007542	4	1607 1461	1656 1449	1444												
'ERINEXT	Ť	00754E	4	1461	1547													
'ERISUB	Ĥ	007520	2	1439	239													
IANTGOT	C	007690	6	1554	1493	1521												
(BFPCT	U	000090	1	868	271													
(BFPIN	D	000940	8	854	868	272												
(BFPINRM	D	0009D0	8	872	885 286	287												
(BFPRMCT (INTFLGS	U	0000A0 003100	0	885 914	286 274	1644												
INTFLGS GOOD	U II	006440	اط 1	1254	1265	1645												
INTFLGS_GOOD	Ü	000045	1	1265	1646	1075												
INTOUT	Ū	003000	0	912	273	1640												

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERE	NCES			
NTOUT_GOOD	U U	006300	1	1240 1251	1251	1641			
NTOUT_NUM		000005	1	016	1042	1640			
ITRMO	U	003200	0	916	288				
ITRMOF COOR	U	003600	0	918	289				
ITRMOF_GOOD ITRMOF_NUM	U	006D00		1332	1393	1653			
ITRMOF_NUM	U	00001E	1		1654	1.6.4.0			
ITRMO_GOOD	U	006580	1	1208	1329	1649			
ITRMO_NUM	U	00001E	1	1329	1650				
.2(L'MSGMSG)	R	00783E	2	1660	15/5				
.6'Got: '	C	007846	6	1662	1521				
.6'Want: '	C	007840	6	1661	1493				
0'	Н	00783C	2	1659	1570				

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MACRO DEFN REFERENCES	17 Aug 2022 11.30.20	rage	44
No defined macros			



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STMT	FILE NAME	
<pre>c:\Users\Fish\Documents\</pre>	Visual Studio 2008\Projects\MyProjects\ASMA-0\bfp-004-cv	vttolog\bfp-004-cvttolog.asm
NO ERRORS FOUND **		