ASMA Ver.	0.2.1	Quick PFPO	DFP to HFP	Conversion	Test	(GitHub Issue	#407)	25 May 2022 19:46:49 Page	1
LOC	ОВЈ	ECT CODE	ADDR1	ADDR2	STMT				
					3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	* ********* * This test * from Exte * (Hexadeci * bug descr * not do ar * PFPO inst * Note that * conversion * been fixe * length value * anything)	PFPC ************* converts the number inded DFP (Decimal F mal Floating-Point) ibed in GitHub Issue ything else. It does ruction. the accompanying and scenarios: the file id, and the second to lues also still work.	c*************************************	
					22			**************************************	
00000000			00000000 00000000	0000073F	25 26	PFPO STAF USIN	T 0 IG PFPO,0	Use absolute addressing	
00000000 000001A0 000001A4 000001A8 000001AC	0000000 800000 000000 000002	30 30	0000000	000001A0	28 29 30 31 32	ORG DC DC DC DC	PFPO+X'1A0' XL4'00000001' XL4'80000000' XL4'00000000' A(BEGIN)	z/Arch Restart new PSW	
000001B0 000001D0 000001D4 000001D8 000001DC	0002000 800000 000000 0000DE	30 30	00000180	00001D0	34 35 36 37 38	ORG DC DC DC DC	PFPO+X'1D0' XL4'00020001' XL4'80000000' XL4'00000000' XL4'0000DEAD'	z/Arch Program new PSW	

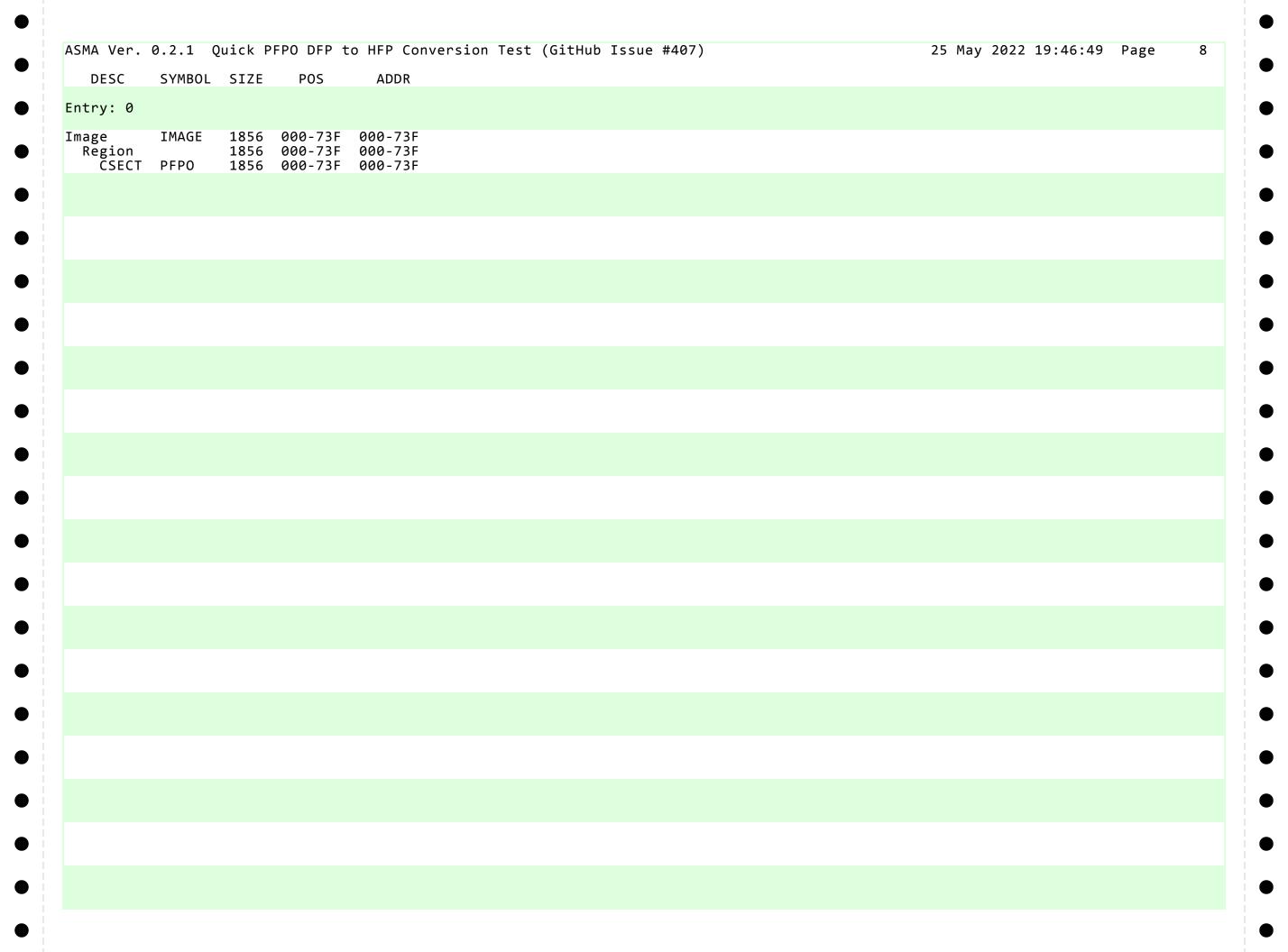
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LOC	ОВЈЕ	CT CODE	ADDR1	ADDR2	STMT					
					40	******	******	******	***********	
					41	*		 	BEGIN *************	
					42	*****	*****	*****	***********	
000001E0			000001E0	00000200	44			PFP0+X'200'	Test code entry point	
00000200					45	BEGIN	DS	0H		
00000000	ED00 01	250 0025		00000050	47		LCTLC	CDO CDO CTIO	Footble AFD manister control bit	
00000200 00000206	B38C 06	250 002F 300		00000250	47 48			CR0,CR0,CTL0 R0		
0000020A	5000 02			00000260	49		ST	R0,SAVEDFPC		
					F 4	* 1		L		
					51	* Load t	tne test	t values	• • • • • • •	
		00 0004		00000600	53				R4 = first 64-bits	
00000214	E360 06	508 0004		00000608	54		LG	R6,DFPIN_F6	R6 = second 64-bits	
0000021A	B3C1 00				56			FR4,R4		
0000021E	B3C1 00	166			57		LDGR	FR6,R6	Move to floating point register	
					F.0	4 D 11		, •		
					59	* Do the	e test.		.e. perform the conversion)	
00000222		258 0004		00000258	61		LG	R0,PFPO_R0		
00000228	010A				62		PFPO	,	Do it!	
					<i>-</i>	Ψ C 1	. 1	7.		
					64	* Save t	the resu	ults		
0000022A	B3CD 06			00000740	66			RØ,FRØ		
0000022E	E300 0	710 0024		00000710	67		SIG	R0,HFPOUT	Save actual results (R0> save)	
					60	Ψ C I I		7.		
					69	* Cneck	the res	sults	•	
		700 0004		00000700	71			R1,HFPOUTOK		
0000023A 0000023E				00000246	72 73			R0,R1 FAIL	Actual = Expected? No, fail	
									·	
00000242	B2B2 07	720		00000720	75		LPSWE	GOODPSW	Load success PSW	
00000246				00000730		FAIL		FAILPSW	Load failure PSW	

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LOC	ORJE	CT CODE	ADDR1	ADDR2	STMT				
LOC	ODJE	.CT CODE	ADDIT		31111				
			0000000	00000001	115		EQU	0	General Purpose Registers
			00000001 00000002	00000001 00000001	116 117		EQU	2	
			00000002	00000001	118		EQU EQU	3	
			00000004	00000001	119		EQU EQU	4	
			00000005	00000001	120		EQU EQU	5	
			00000006 00000007	00000001 00000001	121	R6	EQU	6 7	
			00000007	00000001	122 123		EQU FOU	8	
			00000009	00000001	124		EQU EQU	9	
			A0000000	00000001	125	R10	EQU	10	
			0000000B	00000001	126		EQU	11 12	
			0000000C 0000000D	00000001 00000001	127 128		EQU EQU	13	
			0000000E	00000001	129		EQU	14	
			0000000F	00000001	130		EQU	15	
			0000000	0000001	131	ED0	FOLL	0	Floating Doint Dogistons
			00000000 00000001	00000001 00000001	132 133		EQU EQU	0 1	Floating-Point Registers
			00000001	00000001	134		EOU	2	
			00000003	00000001	135	FR3	EQU EQU EQU EQU	3	
			00000004	00000001	136		EQU	4	
			00000005 00000006	00000001 00000001	137 138		EQU	5 6	
			00000007	00000001	139		EQU	7	
			00000008	00000001	140		EQU EQU	8	
			00000009	00000001	141		EQU	9	
			000000A	00000001		FR10	EQU	10	
			0000000B 0000000C	00000001 00000001		FR11 FR12	EQU EQU	11 12	
			0000000D	00000001		FR13	EQU	13	
			000000E	00000001	146	FR14	EQU	14	
			0000000F	00000001		FR15	EQU	15	
			0000000	00000001	148 149	CRA	EQU	0	Control Registers
			00000001	00000001	150		EQU	1	Concret Megascers
			00000002	00000001	151	CR2	EQU	2	
			00000003	00000001	152		EQU	3	
			00000004 00000005	00000001 00000001	153 154		EQU EQU	4 5	
			00000006	00000001	154		EQU	6	
			00000007	00000001	156	CR7	EQU	7	
			00000008	00000001	157		EQU	8	
			00000009 0000000A	00000001	158		EQU	9 10	
			0000000A 0000000B	00000001 00000001		CR10 CR11	EQU EQU	10	
			0000000B	00000001		CR12	EQU	12	
			000000D	00000001	162	CR13	EQU	13	
			000000E	00000001		CR14	EQU	14	
			0000000F	00000001	104	CR15	EQU	15	
					166		END		

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFE	RENCES	5										
EGIN	Н	000200	2	45	32												
RØ	U	000000	1	149	47												
R1	U	000001	1	150													
R10	U	A00000	1	159													
R11	U	00000B	1	160													
CR12	U	00000C	1	161													
R13	U	00000D	1	162													
R14	U	00000E	1	163													
R15	U	00000F	1	164													
R2	U	000002	1	151													
R3	U	000003	1	152													
R4	U	000004	1	153													
R5	U	000005	1	154													
R6	U	000006	1	155													
R7	U	000007	1	156													
R8	U	800000	1	157													
R9	U	000009	1	158	47												
TLO	D	000250	8	84	47 52												
FPIN_F4	D	000600	8	90	53 54												
FPIN_F6	D T	000608	8	91 76	54 73												
AIL AILPSW	I	000246 000730	4 8	76 109	73 76												
RO	D U	000000	8 1	132	76 66												
R1	Ü	000001	1	133	00												
R10	Ü	000001 A00000	1	142													
R11	Ü	00000A	1	143													
R12	Ü	00000B	1	144													
R13	Ü	00000C	1	145													
R14	Ŭ	00000E	1	146													
R15	Ü	00000E	1	147													
R2	Ŭ	000001	1	134													
R3	Ŭ	000003	ī	135													
R4	Ü	000004	1	136	56												
:R5	Ŭ	000005	ī	137	30												
R6	Ü	000006	1	138	57												
R7	Ü	000007	1	139	J .												
R8	Ŭ	000008	1	140													
R9	Ü	000009	1	141													
GOODPSW	D	000720	8	103	75												
IFPOUT	D	000710	8	100	67												
IFPOUTOK	D	000700	8	95	71												
MAGE	1	000000	1856	0													
PFP0	J	000000	1856	25	28	34	44	88	93	98	26						
PFPO_R0	Χ	000258	4	85	61												
10	U	000000	1	115	48	49	61	66	67	72							
1	U	000001	1	116	71	72											
10	U	00000A	1	125													
11	U	00000B	1	126													
112	U	00000C	1	127													
13	U	00000D	1	128													
114	U	00000E	1	129													
15	U	00000F	1	130													
12	U	000002	1	117													
.3	U	000003	1	118													
4	U	000004	1	119	53	56											
5	U	000005	1	120													

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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERE	NCES			
VEDFPC	U	000006	1	121	54	57			
	U	000007	1	122					
	U	800000	1	123					
VEDEEC	U F	000009 000260	<u>1</u> Δ	123 124 86	49				
VEDITE	,	000200		00	7,2				

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defined macros	



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STMT	FILE NAME	
c:\Users\Fish\Doo	cuments\Visual Studio 2008\Projects\MyProjects\ASMA-0\PFPO\PFPO.as	s m
NO ERRORS FOUND **		