ASMA Ver.	0.2.0	Perform flo	ating point	operation	. ESA	and z mo	de.		03 Jan 2019 20:25:47 Page	1
LOC	ОВЈЕ	CT CODE	ADDR1	ADDR2	STMT					
LOC	ORTE	ECT CODE	ADDR1	ADDR2	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	* ****** * This by J * as l * Note not * * So w by s ****** * Temp * Temp * Temp * Temp	****** file volume ong as that to a good e termi eeing volume ***** orarily orarily	PFPO.AS ************ was put into the publ Hartmann. You can us this notice remains. this test runs in pro idea; nor is LPSW fo inate by SVC, and we where the Restart Old ********** y modified by Fish to y modified by Fish to y modified by Fish to	****************** ic domain 2016-05-05 e it for anything you like, blem state. As a result STFL is r that matter. determine architecture mode	
					25	*		Low Core PS	**************************************	
30000000			00000000 00000000	00000303	28 29	PFPO	START USING	0 PFPO,R15		
00000000 00000008	0009000	00 00000200			31	ROPSW390	DC	A(X'00090000',GO) 0XL8	ESA Restart New PSW ESA/390 Restart Old PSW	
	FFFFFF	F FFFFFFF			33	KOF SWSSO	DC		(if not ones then ESA/390 mode)	
00000010 00000060	000A000	00000000	00000010	00000060	35 36		ORG DC	PFPO+X'60' X'000A0000',A(X'0')	ESA SVC New PSW (normal EOJ PSW)	
00000068 00000068	000A000	00 DEADDEAD	00000068	00000068	38 39		ORG DC	PFPO+X'68' X'000A0000',A(X'DEAD	ESA Program New PSW DEAD')	
00000070 00000120 00000120	FFFFFF	F FFFFFFF	00000070	00000120	41 42 43	ROPSWZ	ORG DS DC	PFPO+X'120' 0XL16 16X'FF'	z Restart Old PSW (if not ones then z mode)	
00000130 000001A0	0001000	1 80000000	00000130	000001A0	45 46		ORG DC	PFPO+X'1A0' X'0001000180000000',	z Restart New PSW AD(GO)	
00001B0			000001B0	000001C0	48		ORG	PFPO+X'1C0'	z SVC New PSW	

	0.2.0 Perform floa				ı z moae.	03 Jan 2019 20:25:47 Page	2
	OBJECT CODE	ADDR1	ADDR2	STMT	D.C.	V'000200019000000' AD/0\	
0001C0 0001D0	00020001 80000000	00000100	00000100	49 _{E1}		X'0002000180000000',AD(0)	
0001D0	00020001 80000000	00000100	000001D0	51 52	DC	PFPO+X'1D0' z Program New PSW X'0002000180000000',AD(X'DEADDEAD')	

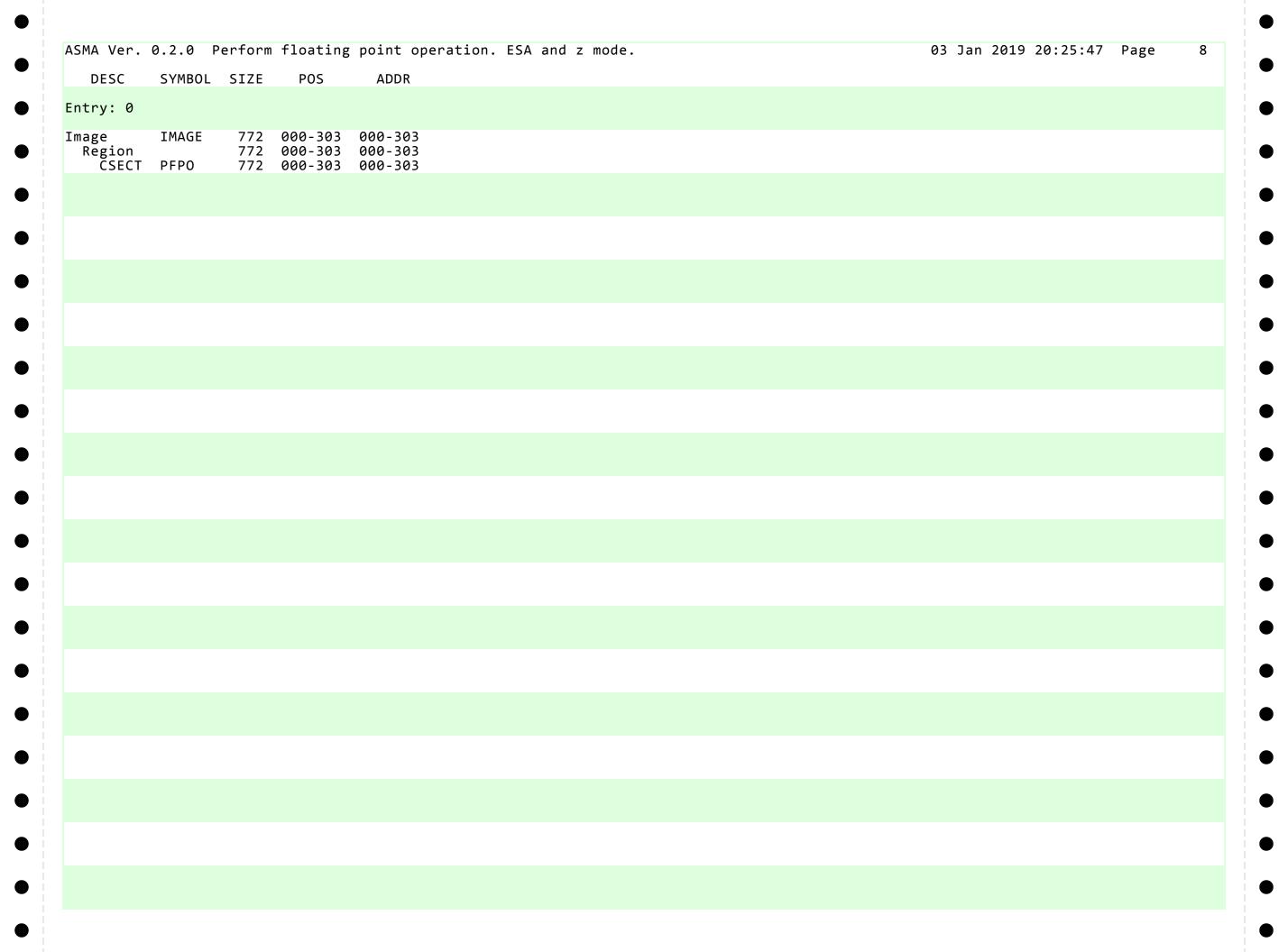
ASMA Ver.	0.2.0	Perform	floating point	operation.	. ESA	and	z mode.			03 Jan 2019 20:25:47 Page	3
LOC	ОВЈІ	ECT CODE	ADDR1	ADDR2	STMT						
					55	*		Start of a	actual p	**************************************	
000001E0 00000200			000001E0	00000200	58 59	GO	ORG DS	PFPO+X'200' 0H			
00000200 00000204	95FF F0 4770 F2			00000008 0000021C	61 62 63		CLI BNE	ROPSW390,X'FF EOJ		Running in ESA/390 mode? Yes, quick EOJ (no PFPO support!)	
					64 65 66						
					67 68 69 70	****	******	******	*****	**********	
					71	**** **	******	*******	******	**********	
					73 74	** ** **	Until su		GRAMMING	NOTE a PROPER test for this	
					76	** **				n purposely neutered.	
					78	** **	It curre	ently does NOTH	ING and	tests NOTHING.	
					80	** ***				**************************************	
00000208	1750 E	210		0000021C	83 84		В	EOJ		*** (See PROGRAMMING NOTE) ***	
00000208	47F0 F.	210		0000021C	85 86 87		В	203		(See PROGRAMMING NOTE)	
					88 89 90						
0000020C 0000020E	1F33 5800 F	220		00000220	91 92		SLR L	R3,R3 R0,=A(X'800000		Clear R3 for later CC store Test for invalid function	
00000212	010A				94		PFP0	,		Perform Floating Point Operation	
00000214 00000218	B222 00 5030 F3			00000300	96 97		IPM ST	R3 R3,CONDCODE		Collect condition code from PSW Save CC	
0000021C						EOJ	DS	0H			
0000021C	0A00				100		SVC	0		Load hardwait psw	
00000220					102		LTOR	î,			

	0.2.0 Perform flo			STMT	and 2 mode.		03 Jan 2019 20:25:47 Page
	80000000	ADDIL	ADDITZ	103		=A(X'80000000')	
0000224 0000300	0000000	00000224	00000300	105 106	ORG CONDCODE DC	PFPO+X'300' F'0'	Condition Code save area @ X'300' Condition Code from PFPO

		Perform f										Page	
LOC	OBJ	ECT CODE	ADDR1	ADDR2	109	*	Regi	ster eau	iates	********** *****			
			00000000000000000000000000000000000000	0000001 00000001 00000001 00000001		R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14	EQU EQU EQU EQU EQU EQU EQU EQU EQU EQU	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15					
					129		END						

SMA Ver. 0.2.0	Pertorm	†loatin	g point	operat	ion.	ESA ai	nd z	mode.						03 Jan	2019 2	ð:25:4/	Page	6
SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFE	RENCE	S											
ONDCODE	F	000300	4	106	97													
0]	H	00021C	2	99	62	84												
0	Н	000200	2	59	31	46												
MAGE	1	000000	772	0														
FPO	J	000000	772	28	35	38	41	45	48	51	58	105	29					
0 1	U	000000	1	112	92													
10	U U	000001 00000A	1 1	113 122														
11	U	00000A	1	123														
12	Ü	00000C	1	124														
13	Ü	00000D	1	125														
14	U	00000E	1	126														
15	U	00000F	1	127	29													
2	U	000002	1	114														
3	U	000003	1	115	91	96	97											
4	U	000004	1	116														
5 6	U U	000005 000006	1 1	117 118														
7	Ü	000007	1	119														
8	Ŭ	000008	1	120														
9	Ü	000009	1	121														
OPSW390	Χ	000008	8	32	61													
OPSWZ A(X'80000000')	X A	000120 000220	16 4	42 103	92													

SMA Ver. 0.2.0 Perform floating point operation. ESA and z mode.	03 Jan 2019 20:25:47 Page	7
ACRO DEFN REFERENCES		
o defined macros		



IA Ver. 0.2.0 Perfor	rm floating point operation. ESA and z mode.	03 Jan 2019 20:25:47 Page 9
STMT	FILE NAME	
c:\Users\Fish\Doc	uments\Visual Studio 2008\Projects\MyProjects\ASMA-0\PFPO\PFPO.	asm
NO ERRORS FOUND **		