PLOGE	AM ACTIV	77 TT			Activa Activa
		AIE			Activa
VERS.	2000-1	(APRII	L 2000)	*INITIAL VERSION.	Activa
	2002-1	-		*OPTIONAL INPUT PARAMETERS	Activa
	2004-1	-		*CORRECTED ERROR - FIRST RECORD AFTER	Activa
		•	•	MF=10 WAS MISSING.	Activa
				*ADDED INCLUDE TO DEFINE COMMON	Activa
				*INCREASED MAX. POINTS FROM 100,000	Activa
				TO 1,000,000.	Activa
VERS.	2007-1	(JAN.	2007)	*CHECKED AGAINST ALL ENDF/B-VII	Activa
VERS.	2007-2	(DEC.	2007)	*72 CHARACTER FILE NAMES.	Activa
VERS.	2010-1	(Apr.	2010)	*General update based on user feedback	Activa
VERS.	2012-1	(Aug.	2012)	*Added CODENAME	Activa
				*Added ERROR stop	Activa
				*32 and 64 bit Compatible	Activa
VERS.	2015-1	(Jan.	2015)	*Corrected ERROR for missing or extra	Activa
				SEND and MEND lines.	Activa
				*Changed MF=8 pointer from MF=9 to 10.	
				*INCREASED MAX. POINTS to 3,000,000.	Activa
				*Added Consistency checks, e.g.,	Activa
				Any MT in MF=9 requires data in MF=3.	
				*Extended OUT9 - OUT10 is not used.	Activa
				*Only processes ONE ENDF Tape - this	Activa
				restriction is necessary to insure	Activa
				compatibility with ALL PREPRO codes.	Activa
				*Changed to current ENDF sequence	Activa
				number convention, e.g., reset number for each section (MAT/MF/MT).	Activa
				*Replaced ALL 3 way IF statements.	Activa
WEDG	2017-1	/Mass	2017)	*Increased MAX. POINTS to 6,000,000.	Activa
VERS.	2017-1	(May	2017)	*Do not create MF=10 for any MT that	Activa
				already has MF=10 data = copy MF=10	Activa
				data in its original form.	Activa
				*Message for every MF=7 output,	Activa
				whether created or copied from input.	Activa
VERS.	2018-1	(Jan.	2018)	whether created or copied from input. *Updated based on user feedback.	
VERS.	2018-1	(Jan.	2018)	*Updated based on user feedback.	Activa
VERS.	2018-1	(Jan.	2018)	_	Activa Activa
	2018-1			*Updated based on user feedback.	Activa Activa Activa
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RedCullen1.net/HOMEPAGE.NEW Activate Activate Activate AUTHORS MESSAGE Activate -----THE REPORT DESCRIBED ABOVE IS THE LATEST PUBLISHED DOCUMENTATION Activate FOR THIS PROGRAM. HOWEVER, THE COMMENTS BELOW SHOULD BE CONSIDERED Activate THE LATEST DOCUMENTATION INCLUDING ALL RECENT IMPROVEMENTS. PLEASE Activate READ ALL OF THESE COMMENTS BEFORE IMPLEMENTATION. Activate AT THE PRESENT TIME WE ARE ATTEMPTING TO DEVELOP A SET OF COMPUTER Activate INDEPENDENT PROGRAMS THAT CAN EASILY BE IMPLEMENTED ON ANY ONE OF A WIDE VARIETY OF COMPUTERS. IN ORDER TO ASSIST IN THIS PROJECT Activate IT WOULD BE APPECIATED IF YOU WOULD NOTIFY THE AUTHOR OF ANY Activate COMPILER DIAGNOSTICS, OPERATING PROBLEMS OR SUGGESTIONS ON HOW TO Activate IMPROVE THIS PROGRAM. HOPEFULLY, IN THIS WAY FUTURE VERSIONS OF Activate THIS PROGRAM WILL BE COMPLETELY COMPATIBLE FOR USE ON YOUR Activate COMPUTER. Activate Activate PURPOSE Activate Activate THIS PROGRAM IS DESIGNED TO CREATE FILE 10 ACTIVATION CROSS Activate SECTIONS BY COMBINING FILE 3 CROSS SECTIONS AND FILE 9 MULTIPLIERS Activate IN THE FOLLOWING DISCUSSION FOR SIMPLICITY THE ENDF TERMINOLOGY Activate ---ENDF TAPE---WILL BE USED. IN FACT THE ACTUAL MEDIUM MAY BE Activate TAPE, CARDS, DISK OR ANY OTHER MEDIUM. Activate Activate ASSUMPTIONS Activate Activate IT IS ASSUMED THAT THE FILE 3 AND 9 DATA HAVE BEEN LINEARIZED Activate BEFORE THIS CODE IS USED - FILE 3 AND 9 DATA CAN BE LINEARIZED Activate USING PROGRAM LINEAR. Activate Activate IT IS ASSUMED THAT THE FILE 9 MULTIPLIERS ARE FAIRLY SMOOTH VERSUS Activate ENERGY, AND THAT THE ACTIVATION CROSS SECTIONS FOR FILE 10 CAN BE Activate DEFINED AT EXACTLY THE SAME ENERGIES AS THE FILE 3 CROSS SECTIONS, Activate AND THAT THESE NEED MERELY BE MULTIPLIED BY THE FILE 9 TO DEFINE THE FILE 10 ACTIVATION CROSS SECTIONS. Activate Activate ENDF FORMAT Activate Activate THIS PROGRAM ONLY USES THE ENDF BCD OR CARD IMAGE FORMAT (AS Activate OPPOSED TO THE BINARY FORMAT) AND CAN HANDLE DATA IN ANY VERSION Activate OF THE ENDF FORMAT (I.E., ENDF-1, 2, 3, 4, 5 OR 6 FORMAT). Activate Activate IT IS ASSUMED THAT THE DATA IS CORRECTLY CODED IN THE ENDF FORMAT AND NO ERROR CHECKING IS PERFORMED. IN PARTICULAR IT IS Activate ASSUMED THAT THE MAT, MF AND MT ON EACH LINE IS CORRECT. SEQUENCE Activate NUMBERS (COLUMNS 76-80) ARE IGNORED ON INPUT, BUT WILL BE Activate CORRECTLY OUTPUT ON ALL LINES. THE FORMAT OF SECTION MF=1, MT=451 Activate AND ALL SECTIONS OF MF=3 MUST BE CORRECT. THE PROGRAM COPIES ALL Activate OTHER SECTION OF DATA AS HOLLERITH AND AS SUCH IS INSENSITIVE TO Activate THE CORRECTNESS OR INCORRECTNESS OF ALL OTHER SECTIONS. Activate Activate OUTPUT FORMAT Activate Activate ALL ENERGIES WILL BE OUTPUT IN F (INSTEAD OF E) FORMAT IN ORDER Activate TO ALLOW ENERGIES TO BE WRITTEN WITH UP TO 9 DIGITS OF ACCURACY. Activate COMPARISON OF THE NORMAL ENDF CONVENTION OF 6 DIGITS TO THE 9 Activate DIGIT OUTPUT FROM THIS PROGRAM DEMONSTRATED THAT FAILURE TO USE THE 9 DIGIT OUTPUT CAN LEAD TO LARGE ERRORS IN THE DATA DUE TO Activate TRUNCATION OF ENERGIES TO 6 DIGITS DURING OUTPUT. Activate Activate CONTENTS OF OUTPUT Activate Activate ENTIRE EVALUATIONS ARE OUTPUT, NOT JUST THE PROCESSED DATA, E.G., Activate ANGULAR AND ENERGY DISTRIBUTIONS ARE ALSO INCLUDED.

DOCUMENTATION

Activate Activate

Activate Activate THE FACT THAT THIS PROGRAM HAS OPERATED ON THE DATA IS DOCUMENTED Activate BY THE ADDITION OF 3 COMMENT LINES AT THE END OF EACH HOLLERITH Activate SECTION IN THE FORM Activate Activate ************ PROGRAM ACTIVATE (2018-1) ********* Activate FILE 10 ACTIVATION CROSS SECTIONS HAVE BEEN DEFINED BY COMBINING Activate FILE 3 CROSS SECTIONS AND FILE 9 MULTIPLIERS. FILE 9 DELETED. Activate Activate THE ORDER OF SIMILAR COMMENTS (FROM RECENT, SIGMA1 AND GROUPIE) Activate REPRESENTS A COMPLETE HISTORY OF ALL OPERATIONS PERFORMED ON Activate THE DATA BY THESE PROGRAMS. Activate Activate THESE COMMENT LINES ARE ONLY ADDED TO EXISTING HOLLERITH SECTIONS, Activate I.E., THIS PROGRAM WILL NOT CREATE A HOLLERITH SECTION. THE FORMAT Activate OF THE HOLLERITH SECTION IN ENDF-5 DIFFERS FROM THE THAT OF EARLIER VERSIONS OF ENDF. BY READING AN EXISTING MF=1, MT=451 Activate IT IS POSSIBLE FOR THIS PROGRAM TO DETERMINE WHICH VERSION OF Activate THE ENDF FORMAT THE DATA IS IN. WITHOUT HAVING A SECTION OF Activate MF=1, MT=451 PRESENT IT IS IMPOSSIBLE FOR THIS PROGRAM TO Activate DETERMINE WHICH VERSION OF THE ENDF FORMAT THE DATA IS IN, AND Activate AS SUCH IT IS IMPOSSIBLE FOR THE PROGRAM TO DETERMINE WHAT FORMAT Activate SHOULD BE USED TO CREATE A HOLLERITH SECTION. Activate Activate REACTION INDEX Activate Activate THIS PROGRAM DOES NOT USE THE REACTION INDEX WHICH IS GIVEN IN Activate SECTION MF=1, MT=451 OF EACH EVALUATION. Activate Activate THIS PROGRAM DOES NOT UPDATE THE REACTION INDEX IN MF=1, MT=451. Activate THIS CONVENTION HAS BEEN ADOPTED BECAUSE MOST USERS DO NOT Activate REQUIRE A CORRECT REACTION INDEX FOR THEIR APPLICATIONS AND IT WAS Activate NOT CONSIDERED WORTHWHILE TO INCLUDE THE OVERHEAD OF CONSTRUCTING Activate A CORRECT REACTION INDEX IN THIS PROGRAM. HOWEVER, IF YOU REQUIRE A REACTION INDEX FOR YOUR APPLICATIONS, AFTER RUNNING THIS PROGRAM Activate YOU MAY USE PROGRAM DICTIN TO CREATE A CORRECT REACTION INDEX. Activate Activate SECTION SIZE Activate Activate SECTIONS OF MF=9 MULTIPLIERS ARE LIMITED TO A MAXIMUM OF 3,000,000 Activate Activate Activate THERE IS NO LIMIT ON THE NUMBER OF ENERGY POINTS IN MF=3 AND 10 Activate TABLES = THIS DATA IS READ AS CHARACTERS, ONE LINE AT A TIME. Activate Activate SELECTION OF DATA Activate Activate THE PROGRAM PROCESSES ALL ENDF DATA ON ONE ENDF TAPE. Activate Activate 2015 - IT NOW ONLY DOES ONE ENDF TAPE. Activate Activate PROGRAM OPERATION Activate PASS #1 Activate Activate THE ENTIRE MAT IS COPIED TO A SCRATCH FILE IN THE ENDF ASCII Activate FORMAT AND WHILE COPYING IT TO SCRATCH MF=3, 9, AND 10 ARE ALSO Activate COPIED TO SEPERATE SCRATCH FILES, I.E., THERE ARE A TOTAL OF 4 Activate SCRATCH FILES - SEE THEIR DEFINITIONS BELOW. Activate Activate PASS #2 Activate Activate IF NO MF=9 MULTIPLIERS ARE FOUND DURING PASS #1, THE ENTIRE MAT Activate IS COPIED FROM SCRATCH TO THE OUTPUT FILE, WITHOUT ANY CHECKS. Activate Activate IF MF=9 MULTIPLIERS ARE FOUND THEY ARE USED WITH MF=3 CROSS Activate SECTIONS TO CREATE MF=10 ACTIVATION CROSS SECTIONS. Activate Activate FOR ANY SECTION OF MF=10 DATA FOR WHICH NO MF=9 MULTIPLIERS ARE Activate FOUND. THE ORIGINAL MF=10 IS OUTPUT. Activate Activate

FOR CONSISTENCY ALL MF=9 MULTIPLIERS ARE DELETED, I.E., THEY ARE

Activate

NOT THE	TIDED	IN THE OUTPUT.	7 o t i o t .		
NOI INC	LUDED	IN THE COTPOT.	Activate Activate		
KEEP EV	KEEP EVALUATED DATA POINTS				
THE FIL	E 10 (OUTPUT WILL BE AT EXACTLY THE SAME ENERGY POINTS AS	Activate		
		ROSS SECTIONS USED TO DEFINE THE FILE 10 ACTIVATION	Activate		
CROSS S	ECTIO	NS.	Activate		
INPUT F	TTEC		Activate Activate		
			Activate		
UNIT D	ESCRI	PTION	Activate		
			Activate		
2 I	NPUT I	LINES (BCD - 80 CHARACTERS/RECORD)	Activate		
10 O	RIGIN	AL ENDF DATA (BCD - 80 CHARACTERS/RECORD)	Activate		
OUTPUT FILES			Activate		
			Activate Activate		
UNIT D		PTION	Activate		
			Activate		
3 0	UTPUT	REPORT (BCD - 120 CHARACTERS/RECORD)	Activate		
11 F	'INAL I	ENDF DATA (BCD - 80 CHARACTERS/RECORD)	Activate		
			Activate		
SCRATCH			Activate		
			Activate		
UNIT D			Activate Activate		
		H FILE FOR ALL MAT (BCD - 80 CHARACTERS/RECORD)	Activat		
		H FILE FOR MF=3 DATA (BCD - 80 CHARACTERS/RECORD)	Activat		
		H FILE FOR MF=9 DATA (BCD - 80 CHARACTERS/RECORD)	Activat		
		H FILE FOR MF=10 DATA (BCD - 80 CHARACTERS/RECORD)	Activat		
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OPTIONA	L STA	NDARD FILE NAMES (SEE SUBROUTINE FILEIO)	Activat		
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	ENDFB.IN ENDFB.OUT				
	(SCRATCH)				
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INPUT P	ARAME!	TERS	Activat		
			Activat		
TIME C	OT C	DESCRIPTION	Activat		
TIME C		DESCRIPTION	Activate Activate		
		ENDF INPUT DATA FILENAME	Activat		
-		(STANDARD OPTION = ENDFB.IN)	Activat		
2	1-72	ENDF OUTPUT DATA FILENAME	Activat		
		(STANDARD OPTION = ENDFB.OUT)	Activat		
			Activat		
ONE PAI	R OF	INPUT LINES MAY BE USED, TO PROCESS ANY ENDF TAPE.	Activat		
			Activat		
2015 -	NOM O	NLY DOES ONE ENDF TAPE.	Activat		
		T 270 1	Activat		
EXAMPLE			Activate Activate		
		TAPE NAMED ACTIVATE.IN AND NAME THE OUTPUT FILE	Activat		
ACTIVAT			Activat		
110111111		•	Activat		
IN THIS	CASE	THE FOLLOWING 2 INPUT LINES ARE REQUIRED	Activat		
		_	Activat		
VATE.IN	ī		Activat		
VATE.OU	T		Activat		
			Activat		
EXAMPLE			Activat		
			Activat		
		ABOVE CASE, EXCEPT THAT IN THIS CASE THE ORIGINAL	Activat		
TAPE IS	IN A	DIRECTORY NAMED \ENDFB6\ORIGINAL, AND THE	Activat		

RESULTS WILL BE WRITTEN INTO A DIRECTORY NAMED \ENDFB6\ACTIVA	TE. Activate
	Activate
IN THIS CASE THE FOLLOWING 6 INPUT LINES ARE REQUIRED	Activate
	Activate
\ENDFB6\ORIGINAL\ACTIVATE.IN	Activate
\ENDFB6\ACTIVATE\ACTIVATE.OUT	Activate
	Activate
EXAMPLE INPUT NO. 3	Activate
	Activate
IF THERE IS NO ACTIVATE.INP FILE, OR THE FILENAMES ARE BLANK	Activate
THIS CODE WILL USE THE DEFAULT NAMES,	Activate
	Activate
ENDFB.IN	Activate
ENDFB.OUT	Activate
	Activate
	===== Activate