PROGRAI					Activ	
	PROGRAM ACTIVATE					
	2000 1		T 0000)	+TNTETAL IEDOTON	Activ	
	2000-1		L 2000) 2002)	*INITIAL VERSION. *OPTIONAL INPUT PARAMETERS	Activ	
	2002 1	•	,	*CORRECTED ERROR - FIRST RECORD AFTER		
	2001 1	(0111.1	2001)	MF=10 WAS MISSING.	Activ	
				*ADDED INCLUDE TO DEFINE COMMON	Activ	
				*INCREASED MAX. POINTS FROM 100,000	Activ	
				TO 1,000,000.	Activ	
	2007-1			*CHECKED AGAINST ALL ENDF/B-VII	Activ	
	2007-2 2010-1			*72 CHARACTER FILE NAMES. *General update based on user feedback	Activ	
	2010-1			*Added CODENAME	Activ	
VEI(0:	2012 1	(1149.	2012/	*Added ERROR stop	Activ	
				*32 and 64 bit Compatible	Activ	
VERS.	2015-1	(Jan.	2015)	*Corrected ERROR for missing or extra	Activ	
				SEND and MEND lines.	Activ	
				*Changed MF=8 pointer from MF=9 to 10.		
				*INCREASED MAX. POINTS to 3,000,000.	Activ	
				*Added Consistency checks, e.g.,	Activ	
				Any MT in MF=9 requires data in MF=3. *Extended OUT9 - OUT10 is not used.	Activ	
				*Only processes ONE ENDF Tape - this	Activ	
				restriction is necessary to insure	Activ	
				compatibility with ALL PREPRO codes.	Activ	
				*Changed to current ENDF sequence	Activ	
				number convention, e.g., reset number		
				for each section (MAT/MF/MT).	Activ	
				*Replaced ALL 3 way IF statements.	Activ	
Acknow	ledgeme	an+ 20	15		Activ	
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Curren	tlv alr	nost a	11 improv	vements to this code are based upon		
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READ ALL OF THESE COMMENTS BEFORE IMPLEMENTATION.

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 COMPILER DIAGNOSTICS, OPERATING PROBLEMS OR SUGGESTIONS ON HOW TO Activate IMPROVE THIS PROGRAM. HOPEFULLY, IN THIS WAY FUTURE VERSIONS OF THIS PROGRAM WILL BE COMPLETELY COMPATIBLE FOR USE ON YOUR COMPUTER.

PURPOSE

THIS PROGRAM IS DESIGNED TO CREATE FILE 10 ACTIVATION CROSS SECTIONS BY COMBINING FILE 3 CROSS SECTIONS AND FILE 9 MULTIPLIERS Activate

IN THE FOLLOWING DISCUSSION FOR SIMPLICITY THE ENDF TERMINOLOGY ---ENDF TAPE---WILL BE USED. IN FACT THE ACTUAL MEDIUM MAY BE TAPE, CARDS, DISK OR ANY OTHER MEDIUM.

ASSUMPTIONS

IT IS ASSUMED THAT THE FILE 3 AND 9 DATA HAVE BEEN LINEARIZED BEFORE THIS CODE IS USED - FILE 3 AND 9 DATA CAN BE LINEARIZED USING PROGRAM LINEAR.

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.

ENDF FORMAT

THIS PROGRAM ONLY USES THE ENDF BCD OR CARD IMAGE FORMAT (AS OPPOSED TO THE BINARY FORMAT) AND CAN HANDLE DATA IN ANY VERSION OF THE ENDF FORMAT (I.E., ENDF-1, 2, 3, 4, 5 OR 6 FORMAT).

IT IS ASSUMED THAT THE DATA IS CORRECTLY CODED IN THE ENDF FORMAT AND NO ERROR CHECKING IS PERFORMED. IN PARTICULAR IT IS 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 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 OTHER SECTION OF DATA AS HOLLERITH AND AS SUCH IS INSENSITIVE TO THE CORRECTNESS OR INCORRECTNESS OF ALL OTHER SECTIONS.

OUTPUT FORMAT

ALL ENERGIES WILL BE OUTPUT IN F (INSTEAD OF E) FORMAT IN ORDER TO ALLOW ENERGIES TO BE WRITTEN WITH UP TO 9 DIGITS OF ACCURACY. COMPARISON OF THE NORMAL ENDF CONVENTION OF 6 DIGITS TO THE 9 DIGIT OUTPUT FROM THIS PROGRAM DEMONSTRATED THAT FAILURE TO USE THE 9 DIGIT OUTPUT CAN LEAD TO LARGE ERRORS IN THE DATA DUE TO TRUNCATION OF ENERGIES TO 6 DIGITS DURING OUTPUT.

CONTENTS OF OUTPUT

ENTIRE EVALUATIONS ARE OUTPUT, NOT JUST THE PROCESSED DATA, E.G., ANGULAR AND ENERGY DISTRIBUTIONS ARE ALSO INCLUDED.

DOCUMENTATION

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 SECTION IN THE FORM

******* PROGRAM ACTIVATE (2015-1) ********** FILE 10 ACTIVATION CROSS SECTIONS HAVE BEEN DEFINED BY COMBINING FILE 3 CROSS SECTIONS AND FILE 9 MULTIPLIERS. FILE 9 DELETED.

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Activate

THE ORDER OF SIMILAR COMMENTS (FROM RECENT, SIGMA1 AND GROUPIE) 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 Activate 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 REOUIRE 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 Activate 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 ENERGY POINTS. 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 THE PROGRAM PROCESSES ALL ENDF DATA ON ONE ENDF TAPE. Activate Activate 2015 - IT NOW ONLY DOES ONE ENDE TAPE. Activate Activate PROGRAM OPERATION Activate 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 FOR CONSISTENCY ALL MF=9 MULTIPLIERS ARE DELETED, I.E., THEY ARE Activate NOT INCLUDED IN THE OUTPUT. Activate Activate KEEP EVALUATED DATA POINTS Activate Activate

THE FILE 10 OUTPUT WILL BE AT EXACTLY THE SAME ENERGY POINTS AS

THE FILE 3 CROSS SECTIONS USED TO DEFINE THE FILE 10 ACTIVATION

CROSS SECTIONS.

Activate

Activate

Activate Activate

INPUT	FILES	Activate
	 DESCRIPTION	Activate Activate
		Activate
	INPUT LINES (BCD - 80 CHARACTERS/RECORD) ORIGINAL ENDF DATA (BCD - 80 CHARACTERS/RECORD)	Activate Activate
10	ontotalle 2.121 Shift (202 of chinatol 2.16) (2001.2)	Activate
	T FILES	Activate
	DESCRIPTION	Activate Activate
		Activate
	OUTPUT REPORT (BCD - 120 CHARACTERS/RECORD) FINAL ENDF DATA (BCD - 80 CHARACTERS/RECORD)	Activate Activate
	TIME ENDI BITTI (BOD OF CHRINGTERO) RECORD)	Activate
SCRAT	Activate	
	DESCRIPTION	Activate Activate
		Activate
	SCRATCH FILE FOR ALL MAT (BCD - 80 CHARACTERS/RECORD) SCRATCH FILE FOR MF=3 DATA (BCD - 80 CHARACTERS/RECORD)	Activate Activate
	SCRATCH FILE FOR MF=9 DATA (BCD - 80 CHARACTERS/RECORD)	Activate
16	SCRATCH FILE FOR MF=10 DATA (BCD - 80 CHARACTERS/RECORD)	Activate
ОРТТО	NAL STANDARD FILE NAMES (SEE SUBROUTINE FILEIO)	Activate Activate
		Activate
	FILE NAME	Activate
	ACTIVATE.INP	Activate Activate
3	ACTIVATE.LST	Activate
	ENDFB.IN ENDFB.OUT	Activate Activate
12	(SCRATCH)	Activate
	(SCRATCH)	Activate
15	(SCRATCH)	Activate Activate
INPUT	PARAMETERS	Activate
		Activate Activate
LINE	COLS. DESCRIPTION	Activate
		Activate
1	1-72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN)	Activate Activate
2	1-72 ENDF OUTPUT DATA FILENAME	Activate
	(STANDARD OPTION = ENDFB.OUT)	Activate
ONE P	AIR OF INPUT LINES MAY BE USED, TO PROCESS ANY ENDF TAPE.	Activate Activate
		Activate
2015	- NOW ONLY DOES ONE ENDF TAPE.	Activate Activate
EXAMP	LE INPUT NO. 1	Activate
		Activate
	SS ENDF TAPE NAMED ACTIVATE.IN AND NAME THE OUTPUT FILE ATE.OUT.	Activate Activate
11011		Activate
IN TH	IS CASE THE FOLLOWING 2 INPUT LINES ARE REQUIRED	Activate
IVATE.	IN	Activate Activate
VATE.		Activate
FYAMD	LE INPUT NO. 2	Activate Activate
		Activate
	AS THE ABOVE CASE, EXCEPT THAT IN THIS CASE THE ORIGINAL	Activate
	IS IN A DIRECTORY NAMED \ENDFB6\ORIGINAL, AND THE TS WILL BE WRITTEN INTO A DIRECTORY NAMED \ENDFB6\ACTIVATE.	Activate
KHDOH	TO WILL DE WATERN INTO A DIRECTOR WELLD (DIDENGE TWATE.	Activate
IN TH	IS CASE THE FOLLOWING 6 INPUT LINES ARE REQUIRED	Activate
DFB6\0	RIGINAL\ACTIVATE.IN	Activate Activate
	CTIVATE\ACTIVATE.OUT	Activate
EAVNU	IE INDIT NO 3	Activate Activate
LAMP	LE INPUT NO. 3	ACLIVALE

IF THERE IS NO ACTIVATE.INP FILE, OR THE FILENAMES ARE BLANK THIS CODE WILL USE THE DEFAULT NAMES,	Activate Activate Activate
ENDFB.IN ENDFB.OUT	Activate Activate Activate
	Activate