	AM ACTIV	/ATE			ACTIVA ACTIVA
		-===			ACTIV
VERS.	2000-1	(APRI	L 2000)	*INITIAL VERSION.	ACTIV
VERS.	2002-1	(MAY	2002)	*OPTIONAL INPUT PARAMETERS	ACTIV
VERS.	2004-1	(JAN.	2004)	*CORRECTED ERROR - FIRST RECORD AFTER	ACTIV
				MF=10 WAS MISSING.	ACTIV
				*ADDED INCLUDE TO DEFINE COMMON	ACTIV
				*INCREASED MAX. POINTS FROM 100,000	ACTIV
				TO 1,000,000.	ACTIV
VERS.	2007-1	(JAN.	2007)	*CHECKED AGAINST ALL ENDF/B-VII	ACTIV
VERS.	2007-2	(DEC.	2007)	*72 CHARACTER FILE NAMES.	ACTIV
VERS.	2010-1	(Apr.	2010)	*General update based on user feedback	kACTIVZ
VERS.	2012-1	(Aug.	2012)	*Added CODENAME	ACTIV
				*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	.ACTIV
				*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.	
				*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
WEDG	2017-1	/Mass	2017)	*Increased MAX. POINTS to 6,000,000.	ACTIV
VLING.	2017 1	(Hay	2017)	*Do not create MF=10 for any MT that	ACTIV
				already has MF=10 data = copy MF=10	
				data in its original form.	ACTIV
				=	ACTIV
				*Message for every MF=7 output,	ACTIV
TIED C	2010 1	/ T	2010)	whether created or copied from input	
VERS.	2018-1	(Jan.	2018)	*Updated based on user feedback.	ACTIV
D.C	2020 1	/3/	20201	*Added on-line output for ALL ENDERROR	
VERS.	2020-1	(Mar.	2020)	*Additional Interpolation Law Tesrs	ACTIV
				*Checked consistency of Maximum	ACTIV
				tabulated energy for MF=3 and 9 data to be compbined - print WARNING if	ACTIV
				to be compoined - print wakning if	
					ACTIV
				inconsistent.	ACTIVA ACTIVA
			00011	inconsistent. *Added Target Isomer State	ACTIVA ACTIVA ACTIVA
VERS.	2021-1	(Jan.	2021)	inconsistent.	ACTIVA ACTIVA ACTIVA
		·	,	inconsistent. *Added Target Isomer State	ACTIVA ACTIVA ACTIVA ACTIVA
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Downsth E. Culler	ACTIVATE
Dermott E. Cullen 1466 Hudson Way	ACTIVATE ACTIVATE
Livermore, CA 94550	ACTIVATE
U.S.A.	ACTIVATE
Telephone 925-443-1911	ACTIVATE
E. Mail RedCullen1@Comcast.net	ACTIVATE
Website RedCullen1.net/HOMEPAGE.NEW	ACTIVATE
	ACTIVATE
	ACTIVATE
AUTHORS MESSAGE	ACTIVATE
	ACTIVATE
THE REPORT DESCRIBED ABOVE IS THE LATEST PUBLISHED DOCUMENTATION	
FOR THIS PROGRAM. HOWEVER, THE COMMENTS BELOW SHOULD BE CONSIDERED	
THE LATEST DOCUMENTATION INCLUDING ALL RECENT IMPROVEMENTS. PLEASURED ALL OF THESE COMMENTS BEFORE IMPLEMENTATION.	
READ ALL OF THESE COMMENTS BEFORE IMPLEMENTATION.	ACTIVATE ACTIVATE
AT THE PRESENT TIME WE ARE ATTEMPTING TO DEVELOP A SET OF COMPUTE	
INDEPENDENT PROGRAMS THAT CAN EASILY BE IMPLEMENTED ON ANY ONE	ACTIVATE
OF A WIDE VARIETY OF COMPUTERS. IN ORDER TO ASSIST IN THIS PROJECT	
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
THE PROPERTY OF THE PROPERTY OF THE PARTY OF	ACTIVATE
THIS PROGRAM IS DESIGNED TO CREATE FILE 10 ACTIVATION CROSS SECTIONS BY COMBINING FILE 3 CROSS SECTIONS AND FILE 9 MULTIPLIER:	ACTIVATE
SECTIONS BY COMBINING FILE 5 CROSS SECTIONS AND FILE 9 MULTIPLIER.	ACTIVATE
IN THE FOLLOWING DISCUSSION FOR SIMPLICITY THE ENDF TERMINOLOGY	ACTIVATE
ENDF TAPEWILL 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
	ACTIVATE
USING PROGRAM LINEAR.	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	
DEFINED AT EXACTLY THE SAME ENERGIES AS THE FILE 3 CROSS SECTIONS	
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	
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	ACTIVATE
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	
NUMBERS (COLUMNS 76-80) ARE IGNORED ON INPUT, BUT WILL BE	ACTIVATE
CORRECTLY OUTPUT ON ALL LINES. THE FORMAT OF SECTION $\ensuremath{MF}=1,\ \ensuremath{MT}=451$	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
OTHER HODIA	ACTIVATE
OUTPUT FORMAT	ACTIVATE
	ACTIVATE
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.	ACTIVATE ACTIVATE
COMPARISON OF THE NORMAL ENDF CONVENTION OF 6 DIGITS TO THE 9	ACTIVATE
DIGIT OUTPUT FROM THIS PROGRAM DEMONSTRATED THAT FAILURE TO USE	ACTIVATE
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.,				
ANGULAR AND ENERGY DISTRIBUTIONS ARE ALSO INCLUDED.	ACTIVATE			
	ACTIVATE			
DOCUMENTATION	ACTIVATE			
	ACTIVATE			
THE FACT THAT THIS PROGRAM HAS OPERATED ON THE DATA IS DOCUMENTED				
BY THE ADDITION OF 3 COMMENT LINES AT THE END OF EACH HOLLERITH SECTION IN THE FORM	ACTIVATE ACTIVATE			
SECTION IN THE FORM	ACTIVATE			
******** PROGRAM ACTIVATE (2021-1) *********	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 THE DATA BY THESE PROGRAMS.	ACTIVATE ACTIVATE			
IND DATA DI INDOLINOGIANO.	ACTIVATE			
THESE COMMENT LINES ARE ONLY ADDED TO EXISTING HOLLERITH SECTIONS,				
I.E., THIS PROGRAM WILL NOT CREATE A HOLLERITH SECTION. THE FORMAT	PACTIVATE			
OF THE HOLLERITH SECTION IN ENDF-5 DIFFERS FROM THE THAT OF	ACTIVATE			
•	ACTIVATE			
IT IS POSSIBLE FOR THIS PROGRAM TO DETERMINE WHICH VERSION OF 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 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				
SHOULD BE USED TO CREATE A HOLLERITH SECTION.	ACTIVATE			
	ACTIVATE			
REACTION INDEX	ACTIVATE			
THIS PROGRAM DOES NOT USE THE REACTION INDEX WHICH IS GIVEN IN	ACTIVATE			
	ACTIVATE 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				
NOT CONSIDERED WORTHWHILE TO INCLUDE THE OVERHEAD OF CONSTRUCTING	ACTIVATE			
A CORRECT REACTION INDEX IN THIS PROGRAM. HOWEVER, IF YOU REQUIRE				
A DEACTION THINEY FOR VOID ADDITCATIONS AFTER DIMNING THIS DECEDAN	ACTIVATE			
A REACTION INDEX FOR YOUR APPLICATIONS, AFTER RUNNING THIS PROGRAM YOU MAY USE PROGRAM DICTIN TO CREATE A CORRECT REACTION INDEX.	ACTIVATE MACTIVATE			
·	ACTIVATE			
•	ACTIVATE MACTIVATE ACTIVATE			
YOU MAY USE PROGRAM DICTIN TO CREATE A CORRECT REACTION INDEX. SECTION SIZE	ACTIVATE ACTIVATE ACTIVATE ACTIVATE ACTIVATE ACTIVATE			
YOU MAY USE PROGRAM DICTIN TO CREATE A CORRECT REACTION INDEX. SECTION SIZE	ACTIVATE ACTIVATE ACTIVATE ACTIVATE ACTIVATE ACTIVATE ACTIVATE			
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YOU MAY USE PROGRAM DICTIN TO CREATE A CORRECT REACTION INDEX. SECTION SIZE	ACTIVATE			
YOU MAY USE PROGRAM DICTIN TO CREATE A CORRECT REACTION INDEX. SECTION SIZE SECTIONS OF MF=9 MULTIPLIERS ARE LIMITED TO A MAXIMUM OF 3,000,000 ENERGY POINTS. THERE IS NO LIMIT ON THE NUMBER OF ENERGY POINTS IN MF=3 AND 10 TABLES = THIS DATA IS READ AS CHARACTERS, ONE LINE AT A TIME. SELECTION OF DATA	ACTIVATE			
YOU MAY USE PROGRAM DICTIN TO CREATE A CORRECT REACTION INDEX. SECTION SIZE SECTIONS OF MF=9 MULTIPLIERS ARE LIMITED TO A MAXIMUM OF 3,000,000 ENERGY POINTS. THERE IS NO LIMIT ON THE NUMBER OF ENERGY POINTS IN MF=3 AND 10 TABLES = THIS DATA IS READ AS CHARACTERS, ONE LINE AT A TIME. SELECTION OF DATA	ACTIVATE			
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YOU MAY USE PROGRAM DICTIN TO CREATE A CORRECT REACTION INDEX. SECTION SIZE SECTIONS OF MF=9 MULTIPLIERS ARE LIMITED TO A MAXIMUM OF 3,000,000 ENERGY POINTS. THERE IS NO LIMIT ON THE NUMBER OF ENERGY POINTS IN MF=3 AND 10 TABLES = THIS DATA IS READ AS CHARACTERS, ONE LINE AT A TIME. SELECTION OF DATA THE PROGRAM PROCESSES ALL ENDF DATA ON ONE ENDF TAPE. 2015 - IT NOW ONLY DOES ONE ENDF TAPE. PROGRAM OPERATION PASS #1 THE ENTIRE MAT IS COPIED TO A SCRATCH FILE IN THE ENDF ASCII FORMAT AND WHILE COPYING IT TO SCRATCH MF=3, 9, AND 10 ARE ALSO COPIED TO SEPERATE SCRATCH FILES, I.E., THERE ARE A TOTAL OF 4 SCRATCH FILES - SEE THEIR DEFINITIONS BELOW.	ACTIVATE			
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IF MF	=9 MULTIPLIERS ARE FOUND THEY ARE USED WITH MF=3 CROSS	ACTIVATE
	ONS TO CREATE MF=10 ACTIVATION CROSS SECTIONS.	ACTIVATE
		ACTIVATE
	NY SECTION OF MF=10 DATA FOR WHICH NO MF=9 MULTIPLIERS ARE	
FOUND	, THE ORIGINAL MF=10 IS OUTPUT.	ACTIVATE ACTIVATE
FOR CO	ONSISTENCY ALL MF=9 MULTIPLIERS ARE DELETED, I.E., THEY ARE	
	NCLUDED IN THE OUTPUT.	ACTIVATE
		ACTIVATE
KEEP J	EVALUATED DATA POINTS	ACTIVATE
		ACTIVATE
THE F	ILE 10 OUTPUT WILL BE AT EXACTLY THE SAME ENERGY POINTS AS	ACTIVATE
	ILE 3 CROSS SECTIONS USED TO DEFINE THE FILE 10 ACTIVATION	
CROSS	SECTIONS.	ACTIVATE
TNIDIIM	FILES	ACTIVATE ACTIVATE
		ACTIVATE
	DESCRIPTION	ACTIVATE
		ACTIVATE
2	INPUT LINES (BCD - 80 CHARACTERS/RECORD)	ACTIVATE
10	ORIGINAL ENDF DATA (BCD - 80 CHARACTERS/RECORD)	ACTIVATE
		ACTIVATE
	T FILES	ACTIVATE
	DESCRIPTION	ACTIVATE ACTIVATE
		ACTIVATE
3	OUTPUT REPORT (BCD - 120 CHARACTERS/RECORD)	ACTIVATE
	FINAL ENDF DATA (BCD - 80 CHARACTERS/RECORD)	ACTIVATE
	·	ACTIVATE
SCRAT	CH FILES	ACTIVATE
		ACTIVATE
	DESCRIPTION	ACTIVATE
		ACTIVATE
		ACTIVATE ACTIVATE
		ACTIVATE
	· · · · · · · · · · · · · · · · · · ·	ACTIVATE
	, , , , , , , , , , , , , , , , , , , ,	ACTIVATE
OPTIO	NAL STANDARD FILE NAMES (SEE SUBROUTINE FILEIO)	ACTIVATE
		ACTIVATE
	FILE NAME	ACTIVATE
	ACTIVATE.INP	ACTIVATE ACTIVATE
	ACTIVATE.LST	ACTIVATE
	ENDFB.IN	ACTIVATE
11	ENDFB.OUT	ACTIVATE
12	(SCRATCH)	ACTIVATE
	(SCRATCH)	ACTIVATE
15	(SCRATCH)	ACTIVATE
TNIDIIM	PARAMETERS	ACTIVATE ACTIVATE
		ACTIVATE
		ACTIVATE
LINE	COLS. DESCRIPTION	ACTIVATE
		ACTIVATE
1	1-72 ENDF INPUT DATA FILENAME	ACTIVATE
	(STANDARD OPTION = ENDFB.IN)	ACTIVATE
2	1-72 ENDF OUTPUT DATA FILENAME	ACTIVATE
	(STANDARD OPTION = ENDFB.OUT)	ACTIVATE ACTIVATE
ONE P	AIR OF INPUT LINES MAY BE USED, TO PROCESS ANY ENDF TAPE.	ACTIVATE
E1	C. IIIO IIII DE COED, TO INCOMO EMI MEDE INFE.	ACTIVATE
2015	- NOW ONLY DOES ONE ENDF TAPE.	ACTIVATE
		ACTIVATE
	LE INPUT NO. 1	ACTIVATE
		ACTIVATE
		3 OM T173 MM
PROCES	SS ENDF TAPE NAMED ACTIVATE.IN AND NAME THE OUTPUT FILE	
PROCES	SS ENDF TAPE NAMED ACTIVATE.IN AND NAME THE OUTPUT FILE ATE.OUT.	ACTIVATE
PROCES ACTIVE	ATE.OUT.	ACTIVATE ACTIVATE ACTIVATE
PROCES ACTIVE		ACTIVATE

ACTIVATE.IN	ACTIVATE			
ACTIVATE.OUT	ACTIVATE			
	ACTIVATE			
EXAMPLE INPUT NO. 2	ACTIVATE			
	ACTIVATE			
SAME AS THE ABOVE CASE, EXCEPT THAT IN THIS CASE THE ORIGINAL	ACTIVATE			
TAPE IS IN A DIRECTORY NAMED \ENDFB6\ORIGINAL, AND THE	ACTIVATE			
RESULTS WILL BE WRITTEN INTO A DIRECTORY NAMED \ENDFB6\ACTIVATE.	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			
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