=====	AM ACTIV				ACTIV
					ACTIV
	2000-1	-		*INITIAL VERSION.	ACTIV
	2002-1	•	•	*OPTIONAL INPUT PARAMETERS	ACTIV
VERS.	2004-1	(JAN.	2004)	*CORRECTED ERROR - FIRST RECORD AFTER	
				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	CACTIV
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
VERS.	2017-1	(May	2017)	*Increased MAX. POINTS to 6,000,000.	ACTIV
				*Do not create MF=10 for any MT that	ACTIV
				already has MF=10 data = copy MF=10	ACTIV
				data in its original form.	ACTIV
				*Message for every MF=7 output,	ACTIV
				whether created or copied from input	ACTIV
VERS.	2018-1	(Jan.	2018)	*Updated based on user feedback.	ACTIV
				*Added on-line output for ALL ENDERROR	RACTIV
VERS.	2020-1	(Mar.	2020)	*Additional Interpolation Law Tesrs	ACTIV
				*Checked consistency of Maximum	ACTIV
				tabulated energy for MF=3 and 9 data	ACTIV
				to be compbined - print WARNING if	ACTIV
				inconsistent.	- ~
				tadded Memort Teemen Ctete	ACTIV
				Added Tardet Isomer State	ACTIV
VERS.	2021-1	(Jan.	2021)	*Added Target Isomer State *Updated for FORTRAN 2018	ACTIV
	2021-1			*Updated for FORTRAN 2018	ACTIVA ACTIVA
	2021-1 2023-1			*Updated for FORTRAN 2018 *Reduced page size from 6,000,000	ACTIVA ACTIVA ACTIVA
				*Updated for FORTRAN 2018	ACTIVA ACTIVA ACTIVA
VERS.	2023-1	(Feb.	2023)	*Updated for FORTRAN 2018 *Reduced page size from 6,000,000	ACTIVA ACTIVA ACTIVA ACTIVA
VERS . Acknow	2023-1 wledgeme	(Feb.	2023)	*Updated for FORTRAN 2018 *Reduced page size from 6,000,000	ACTIVA ACTIVA ACTIVA ACTIVA ACTIVA
VERS . Acknow	2023-1 wledgeme	(Feb.	2023) 15 	*Updated for FORTRAN 2018 *Reduced page size from 6,000,000 to 120,000	ACTIVA ACTIVA ACTIVA ACTIVA ACTIVA ACTIVA
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	3 CM T173 MB
PRESENT CONTACT INFORMATION	ACTIVATE ACTIVATE
	ACTIVATE
Dermott E. Cullen	ACTIVATE
1466 Hudson Way	ACTIVATE
Livermore, CA 94550	ACTIVATE
U.S.A.	ACTIVATE
Telephone 925-443-1911 E. Mail RedCullen1@Comcast.net	ACTIVATE
Website RedCullen1.net/HOMEPAGE.NEW	ACTIVATE ACTIVATE
Redditering of nonlinear than	ACTIVATE
	ACTIVATE
AUTHORS MESSAGE	ACTIVATE
	ACTIVATE
THE REPORT DESCRIBED ABOVE IS THE LATEST PUBLISHED DOCUMENTATION	
FOR THIS PROGRAM. HOWEVER, THE COMMENTS BELOW SHOULD BE CONSIDERE THE LATEST DOCUMENTATION INCLUDING ALL RECENT IMPROVEMENTS. PLEAS:	
READ ALL OF THESE COMMENTS BEFORE IMPLEMENTATION.	ACTIVATE
MAD AND OF THESE COMMENTS BUICKE INFILMMENTATION.	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 PROJEC	TACTIVATE
IT WOULD BE APPECIATED IF YOU WOULD NOTIFY THE AUTHOR OF ANY	ACTIVATE
COMPILER DIAGNOSTICS, OPERATING PROBLEMS OR SUGGESTIONS ON HOW TO IMPROVE THIS PROGRAM. HOPEFULLY, IN THIS WAY FUTURE VERSIONS OF	
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 MULTIPLIER	
IN THE FOLLOWING DISCUSSION FOR SIMPLICITY THE ENDF TERMINOLOGY	ACTIVATE 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
BEFORE THIS CODE IS USED - FILE 3 AND 9 DATA CAN BE LINEARIZED USING PROGRAM LINEAR.	ACTIVATE ACTIVATE
USING PROGRAM LINEAR.	ACTIVATE
IT IS ASSUMED THAT THE FILE 9 MULTIPLIERS ARE FAIRLY SMOOTH VERSU	
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	•
AND THAT THESE NEED MERELY BE MULTIPLIED BY THE FILE 9 TO DEFINE	
THE FILE 10 ACTIVATION CROSS SECTIONS.	ACTIVATE
ENDF FORMAT	ACTIVATE ACTIVATE
ENDF FORMAI	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 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	
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
ALL ENERGIES WILL BE OUTPUT IN F (INSTEAD OF E) FORMAT IN ORDER	ACTIVATE 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	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
CONTENTS OF OUTPUT	ACTIVATE ACTIVATE ACTIVATE
ENTIRE EVALUATIONS ARE OUTPUT, NOT JUST THE PROCESSED DATA, E.G., ANGULAR AND ENERGY DISTRIBUTIONS ARE ALSO INCLUDED.	
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
*********** PROGRAM ACTIVATE (2023-1) **************** FILE 10 ACTIVATION CROSS SECTIONS HAVE BEEN DEFINED BY COMBINING FILE 3 CROSS SECTIONS AND FILE 9 MULTIPLIERS. FILE 9 DELETED.	ACTIVATE
THE ORDER OF SIMILAR COMMENTS (FROM RECENT, SIGMA1 AND GROUPIE) REPRESENTS A COMPLETE HISTORY OF ALL OPERATIONS PERFORMED ON THE DATA BY THESE PROGRAMS.	ACTIVATE ACTIVATE ACTIVATE
THESE COMMENT LINES ARE ONLY ADDED TO EXISTING HOLLERITH SECTIONS, I.E., THIS PROGRAM WILL NOT CREATE A HOLLERITH SECTION. THE FORMAT OF THE HOLLERITH SECTION IN ENDF-5 DIFFERS FROM THE THAT OF EARLIER VERSIONS OF ENDF. BY READING AN EXISTING MF=1, MT=451	
IT IS POSSIBLE FOR THIS PROGRAM TO DETERMINE WHICH VERSION OF THE ENDF FORMAT THE DATA IS IN. WITHOUT HAVING A SECTION OF MF=1, MT=451 PRESENT IT IS IMPOSSIBLE FOR THIS PROGRAM TO DETERMINE WHICH VERSION OF THE ENDF FORMAT THE DATA IS IN, AND AS SUCH IT IS IMPOSSIBLE FOR THE PROGRAM TO DETERMINE WHAT FORMAT SHOULD BE USED TO CREATE A HOLLERITH SECTION.	ACTIVATE ACTIVATE ACTIVATE ACTIVATE ACTIVATE ACTIVATE
REACTION INDEX	ACTIVATE ACTIVATE
THIS PROGRAM DOES NOT USE THE REACTION INDEX WHICH IS GIVEN IN SECTION MF=1, MT=451 OF EACH EVALUATION.	ACTIVATE ACTIVATE ACTIVATE
THIS PROGRAM DOES NOT UPDATE THE REACTION INDEX IN MF=1, MT=451. THIS CONVENTION HAS BEEN ADOPTED BECAUSE MOST USERS DO NOT REQUIRE A CORRECT REACTION INDEX FOR THEIR APPLICATIONS AND IT WAS NOT CONSIDERED WORTHWHILE TO INCLUDE THE OVERHEAD OF CONSTRUCTING A CORRECT REACTION INDEX IN THIS PROGRAM. HOWEVER, IF YOU REQUIRE A REACTION INDEX FOR YOUR APPLICATIONS, AFTER RUNNING THIS PROGRAM YOU MAY USE PROGRAM DICTIN TO CREATE A CORRECT REACTION INDEX.	ACTIVATE SACTIVATE ACTIVATE ACTIVATE MACTIVATE ACTIVATE
SECTION SIZE	ACTIVATE ACTIVATE ACTIVATE
SECTIONS OF MF=9 MULTIPLIERS ARE LIMITED TO A MAXIMUM OF $3,000,000$ ENERGY POINTS.	
,	ACTIVATE
SELECTION OF DATA	ACTIVATE 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 ACTIVATE
PASS #1	ACTIVATE
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	ACTIVATE ACTIVATE
PASS #2	ACTIVATE ACTIVATE
IF NO MF=9 MULTIPLIERS ARE FOUND DURING PASS #1, THE ENTIRE MAT	ACTIVATE ACTIVATE

ACTIVATE SECTIONS TO CREATE MF=10 ACTIVATION CROSS SECTIONS. ACTIVATE SECTIONS TO CREATE MF=10 ACTIVATION CROSS SECTIONS. ACTIVATE FOR ANY SECTION OF MF=10 DATA FOR WHICH NO MF=9 MULTIPLIERS ARE FOUND, THE ORIGINAL MF=10 IS OUTPUT. FOR CONSISTENCY ALL MF=9 MULTIPLIERS ARE DELETED, I.E., THEY ARE ACTIVATE FOR CONSISTENCY ALL MF=9 MULTIPLIERS ARE DELETED, I.E., THEY ARE ACTIVATE THE FILE 10 OUTPUT WILL BE AT EXACTLY THE SAME ENERGY POINTS AS THE FILE 10 COUNTY WILL BE AT EXACTLY THE SAME ENERGY POINTS AS THE FILE 10 COUNTY WILL BE AT EXACTLY THE SAME ENERGY POINTS AS ACTIVATE THE FILE 10 COUNTY WILL BE AT EXACTLY THE SAME ENERGY POINTS AS ACTIVATE THE FILE 10 COUNTY WILL BE AT EXACTLY THE SAME ENERGY POINTS AS ACTIVATE THE FILE 10 COUNTY WILL BE AT EXACTLY THE SAME ENERGY POINTS AS ACTIVATE THE FILE 10 COUNTY WILL BE AT EXACTLY THE SAME ENERGY POINTS AS ACTIVATE THE FILE 10 COUNTY WILL BE AT EXACTLY THE SAME ENERGY POINTS AS ACTIVATE THE FILE 10 COUNTY WILL BE AT EXACTLY THE SAME ENERGY POINTS AS ACTIVATE THE FILE 10 COUNTY WILL BE AT EXACTLY THE SAME ENERGY POINTS AS ACTIVATE 10 DESCRIPTION ACTIVATE ACTIVATE ACTIVATE ACTIVATE ACTIVATE ACTIV			
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ACTIVATE FOR ANY SECTION OF MF=10 DATA FOR WHICH NO MF=9 MULTIPLIERS ARE FOUND, THE ORIGINAL MF=10 IS OUTPUT. FOR CONSISTENCY ALL MF=9 MULTIPLIERS ARE DELETED, I.E., THEY ARE ACTIVATE FOR CONSISTENCY ALL MF=9 MULTIPLIERS ARE DELETED, I.E., THEY ARE ACTIVATE ACTIVATE MOST INCLUDED IN THE OUTPUT. KEEP EVALUATED DATA POINTS THE FILE 10 OUTPUT WILL BE AT EXACTLY THE SAME EMERGY POINTS AS ACTIVATE CROSS SECTIONS. INPUT FILES ACTIVATE CROSS SECTIONS USED TO DEFINE THE FILE 10 ACTIVATION ACTIVAT CROSS SECTIONS. INPUT FILES ACTIVATE 10 ORIGINAL ENDS DATA (BCD - 80 CHARACTERS/RECORD) ACTIVAT COUTPUT FILES ACTIVATE OUTPUT FILES ACTIVATE OUTPUT FILES ACTIVATE ACTIVAT AC			
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FOUND, THE ORIGINAL MF=10 IS OUTPUT. FOR CONSISTENCY ALL MF=9 MULTIPLIERS ARE DELETED, I.E., THEY ARE ACTIVAT NOT INCLUDED IN THE OUTPUT. ACTIVAT AC			ACTIVAT
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NOT INCLUDED IN THE OUTPUT. REEP EVALUATED DATA POINTS			ACTIVAT
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REEF EVALUATED DATA POINTS			ACTIVAT
REEF EVALUATED DATA POINTS			ACTTVAT
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2			ACTIVAT
10 ORIGINAL ENDF DATA (BCD - 80 CHARACTERS/RECORD) ACTIVAT AC			ACTIVAT
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OUTPUT FILES ACTIVAT UNIT DESCRIPTION ACTIVAT 3 OUTPUT REPORT (BCD - 120 CHARACTERS/RECORD) ACTIVAT 11 FINAL ENDF DATA (BCD - 80 CHARACTERS/RECORD) ACTIVAT SCRATCH FILES ACTIVAT	10	ORIGINAL ENDF DATA (BCD - 80 CHARACTERS/RECORD)	ACTIVAT
ACTIVAT ACTIVAT			ACTIVAT
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UNIT DESCRIPTION ACTIVATE			
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PROCESS ENDF TAPE NAMED ACTIVATE.IN AND NAME THE OUTPUT FILE ACTIVAT ACTIVATE.OUT.	EARWIFLE INFUT NO. I		
ACTIVATE.OUT. ACTIVAT			
ACTIVAT	ACTIV.	ATE.OUT.	

IN THIS CASE THE FOLLOWING 2 INPUT LINES ARE REQUIRED	ACTIVATE		
	ACTIVATE ACTIVATE		
ACTIVATE.IN			
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		
=======================================	=ACTTVATE		