				FIXU:
PROGRAM	FIXUP			FIXU
========				FIXU
VERSION	84-1	(NOVEMBER 1984)		FIXU
VERSION	86-1	(JANUARY 1986)	*IMPROVED BASED ON USER COMMENTS	FIXU
			*FORTRAN-77/H VERSION	FIXU
VERSION	86-2	(JUNE 1986)	*ALLOW CREATION OF SECTIONS OF CROSS	FIXU
			SECTIONS WHICH ARE NOT PRESENT IN	FIXU
			THE ORIGINAL EVALUATION	FIXU
VERSION	88-1	(JULY 1988)	*OPTIONINTERNALLY DEFINE REA I/O	FIXU
			FILE NAMES (SEE, SUBROUTINE FILEIO FOR DETAILS).	FIXU
			*IMPROVED BASED ON USER COMMENTS.	FIXU
VERSION	89-1	(JANUARY 1989)	*PSYCHOANALYZED BY PROGRAM FREUD TO	FIXU
		(012:012:02 2000)	INSURE PROGRAM WILL NOT DO ANYTHING	
			CRAZY.	FIXU
			*UPDATED TO USE NEW PROGRAM CONVERT	FIXU
			KEYWORDS.	FIXU
			*ADDED LIVERMORE CIVIC COMPILER	FIXU
			CONVENTIONS.	FIXU
VERSION	89-2	(MARCH 1989)	*ADDED ENDF-6 SUMMATION RULES AND	FIXU
			DEFINED MF AND MT NUMBERS. PROGRAM	FIXU
			WILL NOW USE MF=1, MT=451 TO DEFINE	FIXU
			THE ENDF FORMAT OF THE DATA (E.G.,	FIXU
			ENDF-6 OR EARLIER) AND USE THE CORRECT SUMMATION RULES FOR EACH	FIXU
			VERSION OF THE ENDF FORMAT. IF	FIXU
			MF=1, MT=451 IS NOT PRESENT PROGRAM	
			WILL USE ENDF-6 SUMMATION	FIXU
			CONVENTIONS AS A DEFAULT.	FIXU
VERSION	90-1	(JUNE 1990)	*UPDATED BASED ON USER COMMENTS	FIXU
			*ADDED PHOTON INTERACTION, MF=23	FIXU
VERSION	91-1	(JUNE 1991)	*ADDED FORTRAN SAVE OPTION	FIXU
			*NEW MORE CONSISTENT ENERGY OUTPUT	FIXU
			ROUTINE	FIXU
VERSION	92-1	(JANUARY 1992)	*ADDED OPTION TO CALCULATE RATIOS,	FIXU
			E.G., CAPTURE/FISSION AND PRODUCTS,	FIXU
			NU-BAR*FISSION - AND OUTPUT THE RESULTS IN THE ENDF FORMAT (SEE,	FIXU
			BELOW - CREATING RATIOS AND PRODUCTS)	
			*ALLOW TOTAL NU-BAR (MF=1, MT=452) TO	
			BE USED IN DEFINING RATIOS OR	FIXU
			PRODUCTS.	FIXU
			*ALLOW ALL CROSS SECTIONS TO BE PUT	FIXU
			ON A UNIFORM ENERGY GRID.	FIXU
			*NOTE, CHANGE IN INPUT FORMAT FOR	FIXU
			RANGES OF MT NUMBERS	FIXU
			*COMPLETELY CONSISTENT I/O ROUTINES -	
VEDOTON	92-1	(.TIT.Y 1002)	TO MINIMIZE COMPUTER DEPENDENCE. *CORRECTED ALGORITHM TO CREATE UNIFORM	FIXU
VERSION	92-T	(2001 1992)		FIXU
VERSTON	94-1	(JANUARY 1993)		FIXU
	-	(TO ALLOW ACCESS TO FILE STRUCTURES	
				FIXU
			•	FIXU
			*INCREASED PAGE SIZE FROM 1002 TO	FIXU
			12000 DATA POINTS.	FIXU
			*CLOSE ALL FILES BEFORE TERMINATING	
				FIXU
VERSION	96-1	(JANUARY 1996)		FIXU
				FIXU
			*ALL DOUBLE PRECISION	FIXU
			*ON SCREEN OUTPUT *UNIFORM TREATMENT OF ENDF I/O	FIXU
			*UNIFORM TREATMENT OF ENDF 1/O *IMPROVED OUTPUT PRECISION	FIXU
			*DEFINED SCRATCH FILE NAMES	FIXU
				FIXU
			36000 DATA POINTS.	FIXU
VERSION	99-1	(MARCH 1999)	*CORRECTED CHARACTER TO FLOATING	FIXU

			*UPDATED TEST FOR ENDF FORMAT VERSION BASED ON RECENT FORMAT CHANGE	FIXUP FIXUP
			*GENERAL IMPROVEMENTS BASED ON	FIXUP
			USER FEEDBACK	FIXUP
VERSION 99-2	(JUNE 19	999)	*ASSUME ENDF-6, NOT 5, IF MISSING	FIXUP
			MF=1, MT-451. *FIXED CREATION OF SECTIONS	FIXUP FIXUP
VERS. 2000-1	(FEBRUAR		*GENERAL IMPROVEMENTS BASED ON	FIXUP
	,	,	USER FEEDBACK	FIXUP
VERS. 2002-1	(MAY 200)2)	*OPTIONAL INPUT PARAMETERS	FIXUP
			*SUMMATION RULES ARE DEFINED BASED	FIXUP
			ON CONTENTS OF TABLES.	FIXUP
VERS. 2004-1	(JAN. 20	•	*GENERAL UPDATE BASED ON USER FEEDBACK	
			*INCREASED PAGE SIZE FROM 36000 TO 60000 DATA POINTS.	FIXUP FIXUP
VERS. 2005-1	(.TAN 20	05)	*UPDATED MT CREATION TO ALLOW MAT =0	FIXUP
	(01200 20	,	INDICATING CREATE FOR ALL MATS.	FIXUP
VERS. 2007-1	(JAN. 20	07)	*CHECKED AGAINST ALL ENDF/B-VII DATA	FIXUP
			*INCREASED PAGE SIZE FROM 60,000 TO	FIXUP
			600,000 DATA POINTS.	FIXUP
VERS. 2007-2	(OCT. 20		*ADDED MT=16 AS SUM MT=875 THRU 891	FIXUP
	(7		*72 CHARACTER FILE NAMES	FIXUP
VERS. 2010-1	(Apr. 20)10)	*Defining cross sections by summation	
			to now mandatory - either build-in rules or by user input.	FIXUP FIXUP
VERS. 2011-1	(March 2	2011)	*Added new MT # to allowed and	FIXUP
	(,	summation rules.	FIXUP
VERS. 2012-1	(Aug. 2	2012)	*Corrected definition of MT=3 to avoid	IFIXUP
			double counting of MT=18.	FIXUP
			*Extended incident particle list to	FIXUP
			include photon $(ZA = 0)$.	FIXUP
			*Added CODENAME *32 and 64 bit Compatible	FIXUP FIXUP
			*Added ERROR stops.	FIXUP
VERS. 2015-1	(Jan. 2		*Extended OUT9.	FIXUP
	•	-	*Replaced ALL 3 way IF Statements	FIXUP
				FIXUP
VERS. 2015-2	(Oct. 2	2015)	*Threshold Correction no longer	FIXUP
			allowed = TOO DANGEROUS!!!	FIXUP
VERS. 2017-1	(May 2		*Updated based on user feekback	FIXUP
VERS. 2017-1	(May 2		*Updated based on user feekback *Increased tables to 3,000,000.	FIXUP FIXUP
VERS. 2017-1	(May 2		*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed	FIXUP FIXUP FIXUP
VERS. 2017-1	(May 2		<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion.</pre>	FIXUP FIXUP FIXUP FIXUP
VERS. 2017-1	(May 2		*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed	FIXUP FIXUP FIXUP FIXUP
VERS. 2017-1	(May 2		<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction</pre>	FIXUP FIXUP IFIXUP FIXUP
VERS. 2017-1 VERS. 2017-2			<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for</pre>	FIXUP FIXUP FIXUP FIXUP FIXUP
			<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections</pre>	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
		2017)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23.</pre>	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
		2017)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create,</pre>	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
		2017)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total</pre>	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
		2017)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create,</pre>	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
		2017)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total MF/MT=23/522 = Total ionization</pre>	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
		2017)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total MF/MT=23/522 = Total ionization *Updated to define MF=26 and electron</pre>	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
	(Oct. 2	2017)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total MF/MT=23/522 = Total ionization *Updated to define MF=26 and electron Cross Sections MT=526, 527, 528 as LEGAL MF/MT Combinations. *Decreased PAGE size from 2,700,000</pre>	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
VERS. 2017-2	(Oct. 2	2017)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total MF/MT=23/522 = Total ionization *Updated to define MF=26 and electron Cross Sections MT=526, 527, 528 as LEGAL MF/MT Combinations. *Decreased PAGE size from 2,700,000 to 1,800,000 - PAGE was too BIG for</pre>	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
VERS. 2017-2	(Oct. 2	2017)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total MF/MT=23/522 = Total ionization *Updated to define MF=26 and electron Cross Sections MT=526, 527, 528 as LEGAL MF/MT Combinations. *Decreased PAGE size from 2,700,000 to 1,800,000 - PAGE was too BIG for many computers - forcing the code</pre>	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
VERS. 2017-2	(Oct. 2	2017)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total MF/MT=23/522 = Total ionization *Updated to define MF=26 and electron Cross Sections MT=526, 527, 528 as LEGAL MF/MT Combinations. *Decreased PAGE size from 2,700,000 to 1,800,000 - PAGE was too BIG for many computers - forcing the code to run VERY SLOWLY - smaller size</pre>	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
VERS. 2017-2	(Oct. 2	2017) 2018)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total MF/MT=23/522 = Total ionization *Updated to define MF=26 and electron Cross Sections MT=526, 527, 528 as LEGAL MF/MT Combinations. *Decreased PAGE size from 2,700,000 to 1,800,000 - PAGE was too BIG for many computers - forcing the code to run VERY SLOWLY - smaller size improves running time.</pre>	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
VERS. 2017-2	(Oct. 2 (Jan. 2	2017) 2018)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total MF/MT=23/522 = Total ionization *Updated to define MF=26 and electron Cross Sections MT=526, 527, 528 as LEGAL MF/MT Combinations. *Decreased PAGE size from 2,700,000 to 1,800,000 - PAGE was too BIG for many computers - forcing the code to run VERY SLOWLY - smaller size</pre>	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
VERS. 2017-2 VERS. 2018-1	(Oct. 2 (Jan. 2	2017) 2018) 2019)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total MF/MT=23/522 = Total ionization *Updated to define MF=26 and electron Cross Sections MT=526, 527, 528 as LEGAL MF/MT Combinations. *Decreased PAGE size from 2,700,000 to 1,800,000 - PAGE was too BIG for many computers - forcing the code to run VERY SLOWLY - smaller size improves running time. *Added on-line output for ALL ENDERROF</pre>	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
VERS. 2017-2 VERS. 2018-1	(Oct. 2 (Jan. 2	2017) 2018) 2019)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total MF/MT=23/501 = Total MF/MT=23/522 = Total ionization *Updated to define MF=26 and electron Cross Sections MT=526, 527, 528 as LEGAL MF/MT Combinations. *Decreased PAGE size from 2,700,000 to 1,800,000 - PAGE was too BIG for many computers - forcing the code to run VERY SLOWLY - smaller size improves running time. *Added on-line output for ALL ENDERROF *Additional Interpolation Law Tests</pre>	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
VERS. 2017-2 VERS. 2018-1	(Oct. 2 (Jan. 2	2017) 2018) 2019)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total MF/MT=23/522 = Total ionization *Updated to define MF=26 and electron Cross Sections MT=526, 527, 528 as LEGAL MF/MT Combinations. *Decreased PAGE size from 2,700,000 to 1,800,000 - PAGE was too BIG for many computers - forcing the code to run VERY SLOWLY - smaller size improves running time. *Added on-line output for ALL ENDERROF *Additional Interpolation Law Tests *Print WARNING if ALL MTS in any evaluation DO NOT ALL EXTEND to the same Maximum Tabulated Energy =</pre>	FIXUP FIXUP
VERS. 2017-2 VERS. 2018-1	(Oct. 2 (Jan. 2	2017) 2018) 2019)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total MF/MT=23/522 = Total ionization *Updated to define MF=26 and electron Cross Sections MT=526, 527, 528 as LEGAL MF/MT Combinations. *Decreased PAGE size from 2,700,000 to 1,800,000 - PAGE was too BIG for many computers - forcing the code to run VERY SLOWLY - smaller size improves running time. *Added on-line output for ALL ENDERROF *Additional Interpolation Law Tests *Print WARNING if ALL MTs in any evaluation DO NOT ALL EXTEND to the same Maximum Tabulated Energy = in this case data above the lowest</pre>	FIXUP FIXUP
VERS. 2017-2 VERS. 2018-1	(Oct. 2 (Jan. 2	2017) 2018) 2019)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total MF/MT=23/522 = Total ionization *Updated to define MF=26 and electron Cross Sections MT=526, 527, 528 as LEGAL MF/MT Combinations. *Decreased PAGE size from 2,700,000 to 1,800,000 - PAGE was too BIG for many computers - forcing the code to run VERY SLOWLY - smaller size improves running time. *Added on-line output for ALL ENDERROF *Additional Interpolation Law Tests *Print WARNING if ALL MTs in any evaluation DO NOT ALL EXTEND to the same Maximum Tabulated Energy = in this case data above the lowest common energy is identied as being</pre>	FIXUP FIXUP
VERS. 2017-2 VERS. 2018-1 VERS. 2019-1	(Oct. 2 (Jan. 2 (June 2	2017) 2018) 2019)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total MF/MT=23/522 = Total ionization *Updated to define MF=26 and electron Cross Sections MT=526, 527, 528 as LEGAL MF/MT Combinations. *Decreased PAGE size from 2,700,000 to 1,800,000 - PAGE was too BIG for many computers - forcing the code to run VERY SLOWLY - smaller size improves running time. *Added on-line output for ALL ENDERROF *Additional Interpolation Law Tests *Print WARNING if ALL MTs in any evaluation DO NOT ALL EXTEND to the same Maximum Tabulated Energy = in this case data above the lowest common energy is identied as being UNRELIABLE.</pre>	FIXUP FIXUP
VERS. 2017-2 VERS. 2018-1	(Oct. 2 (Jan. 2 (June 2	2017) 2018) 2019)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total MF/MT=23/522 = Total ionization *Updated to define MF=26 and electron Cross Sections MT=526, 527, 528 as LEGAL MF/MT Combinations. *Decreased PAGE size from 2,700,000 to 1,800,000 - PAGE was too BIG for many computers - forcing the code to run VERY SLOWLY - smaller size improves running time. *Added on-line output for ALL ENDERROF *Additional Interpolation Law Tests *Print WARNING if ALL MTs in any evaluation DO NOT ALL EXTEND to the same Maximum Tabulated Energy = in this case data above the lowest common energy is identied as being UNRELIABLE. *Corrected ERROR defining first point</pre>	FIXUP FIXUP
VERS. 2017-2 VERS. 2018-1 VERS. 2019-1	(Oct. 2 (Jan. 2 (June 2	2017) 2018) 2019)	<pre>*Updated based on user feekback *Increased tables to 3,000,000. *All floating input parameters changed to character input + IN9 conversion. *Ignore attempts to "correct" reaction threshold = cannot be done for temperature dependent (MF=3) data. *Updated to insure sharp edges for photon interaction cross sections MF=23. *Updated for ELECTRONS to create, MF/MT=23/501 = Total MF/MT=23/522 = Total ionization *Updated to define MF=26 and electron Cross Sections MT=526, 527, 528 as LEGAL MF/MT Combinations. *Decreased PAGE size from 2,700,000 to 1,800,000 - PAGE was too BIG for many computers - forcing the code to run VERY SLOWLY - smaller size improves running time. *Added on-line output for ALL ENDERROF *Additional Interpolation Law Tests *Print WARNING if ALL MTs in any evaluation DO NOT ALL EXTEND to the same Maximum Tabulated Energy = in this case data above the lowest common energy is identied as being UNRELIABLE.</pre>	FIXUP FIXUP

	in removing the previous THRESHOLD	FIXUP
	"correction" test - which is no longer allowed).	FIXUP
VERS. 2020-1 (Dec. 2020)	*ZA & AWRE Correction Required.	FIXUP FIXUP
VERB: 2020 1 (BCC: 2020)	*Extensiion to 20 MeV NOT ALLOWED.	FIXUP
	*Threshold correction NOT ALLOWED.	FIXUP
	*Added Target isomeric state	FIXUP
VERS. 2021-1 (Jan. 2021)	*Updated for FORTRAN 2018	FIXUP
	*DELETED MT=3 = Nonelastic by adding	FIXUP
	it to the built-in DELETION table - to select set option $3 = 2$ (use	FIXUP FIXUP
	built-in DELETION table). MT=3 is	FIXUP
	never used in applications, and yet	FIXUP
	can add an enormous volume to ENDF	FIXUP
	format files: (MT=3) = (MT-1)-(MT-2)	
	included ALL of the resonances from capture, fission,	FIXUP FIXUP
VERS. 2021-2 (Aug. 2021)	*Corrected MTCHEK to check only if	FIXUP
· , , ,	using built-in tables,	FIXUP
	IMOPS(4) = DELETION	FIXUP
	IMOPS(5) = SUMMATION	FIXUP
VERS, 2021-3 (Nov. 2021)	ERROR = Only print WARNING - NO STOP	
VERS, 2021-3 (Nov. 2021)	*Corrected summation rules to be identical to ENDF102, 0.4.2.11 -	FIXUP FIXUP
	WARNING - I did not check these	FIXUP
	definitions, i.e., I believe ENDF-102	2FIXUP
VERS, 2021-4 (Dec. 2021)	*Check summation rules using MT.DAT	FIXUP
	is OPTIONAL = done if MT.DAT present	
	otherwise skipped with WARNING. *Cross Section Reconstruction optional	FIXUP
	(option 5).	FIXUP
VERS. 2023-1 (Jan. 2023)	*Increase MTREAD(2,10) to MTREAD(2,15)	FIXUP
	*Decreased in-core array size from	FIXUP
	1,800,000 to 120,000 - enormous	FIXUP
	arrays merely make the code run longer I/O instead of calculations.	FIXUP FIXUP
	Tonger 1/0 Instead of Calculations.	FIXUP
2019-2 Acknowledgment		FIXUP
		FIXUP
-	Let (NDS, IAEA, Vienna, Austria) for	FIXUP
	? (2019-1) that led to the update in define the first point in each MT.	FIXUP FIXUP
,		FIXUP
OWNED, MAINTAINED AND DISTRI		FIXUP
		FIXUP
THE NUCLEAR DATA SECTION INTERNATIONAL ATOMIC ENERGY	ACENCY	FIXUP FIXUP
P.O. BOX 100	AGENCI	FIXUP
A-1400, VIENNA, AUSTRIA		FIXUP
EUROPE		FIXUP
		FIXUP
ORIGINALLY WRITTEN BY		FIXUP FIXUP
Dermott E. Cullen		FIXUP
		FIXUP
PRESENT CONTACT INFORMATION		FIXUP
		FIXUP
Dermott E. Cullen 1466 Hudson Way		FIXUP FIXUP
Livermore, CA 94550		FIXUP
U.S.A.		FIXUP
Telephone 925-443-1911		FIXUP
E. Mail RedCullen1@Comcas Website RedCullen1.net/HC	st.net	FIXUP
website RedCullenl.net/HC	MEFAGE.NEW	FIXUP FIXUP
PURPOSE		FIXUP
======		FIXUP
	READ EVALUATED DATA IN THE ENDF	FIXUP
	AND OUTPUT THE RESULT IN THE ENDF	FIXUP
		FIXUP
(2) OPTIONAL (BASED ON USER	INFOI) CORRECTIONS.	FIXUP

		FIXUP
	OF THE MOST IMPORTANT FUNCTIONS OF THIS PROGRAM IS TO	FIXUP
	DEFINE ALL REDUNDANT CROSS SECTIONS (E.G. TOTAL) TO BE EXACTLY	
	AL TO THE SUM OF ITS PARTS. THIS PROCEDURE ELIMINATES THE	FIXUP
	BLEM WITH MANY ENDF EVALUATIONS, WHERE DUE TO THE USE OF	FIXUP
	-LINEAR INTERPOLATION LAWS THE TOTAL MAY BE EQUAL TO THE SUM	FIXUP
	ITS PARTS AT ALL TABULATED ENERGIES, BUT BASED ON THE	FIXUP
	ERPOLATION LAWS IT CAN BE QUITE DIFFERENT AT ENERGIES BETWEEN	FIXUP
TABU	ULATED ENERGIES.	FIXUP
		FIXUP
AUTO	OMATIC CHECKS/CORRECTIONS	FIXUP
====		FIXUP
(1)	CHECK THAT MAT/MF/MT DOES NOT CHANGE UNLESS A MEND/FEND/SEND	FIXUP
	LINE IS READ. IF MAT/MF/MT CHANGES A WARNING MESSAGE IS	FIXUP
	PRINTED BUT NO CORRECTIVE ACTION IS TAKEN.	FIXUP
(2)	ALL LINES WITHIN A GIVEN MAT WILL BE SEQUENTIALLY NUMBERED	FIXUP
	ON OUTPUT.	FIXUP
		FIXUP
OPTI	IONAL CHECKS/CORRECTIONS	FIXUP
		FIXUP
	FOLLOWING NUMBERS CORRESPOND TO THE INPUT DATA OPTION COLUMNS	
(SEI	E THE DESCRIPTION OF THE INPUT BELOW)	FIXUP
		FIXUP
(1)	CORRECT ZA AND AWR IN ALL SECTIONS. CHECK TO INSURE THAT THE	FIXUP
	C1 AND C2 VALUES (ZA AND AWR) ARE THE SAME IN ALL SECTIONS.	FIXUP
	THE C1 AND C2 OF THE FIRST SECTION READ ARE ASSUMED TO BE	FIXUP
	CORRECT AND ARE USED FOR COMPARISON. IF THE C1 AND/OR C2 OF	FIXUP
	THE FIRST SECTION ARE NOT POSITIVE AN ERROR MESSAGE IS OUTPUT	
	AND THE MATERIAL IS COPIED WITHOUT CHANGE.	FIXUP
	NOTETO CHANGE THE ZA AND/OR AWR OF ANY MATERIAL IT IS	FIXUP
	MERELY NECESSARY TO CHANGE THE ZA AND/OR AWR IN THE FIRST	FIXUP
	SECTION OF THE MATERIAL AND USE THIS OPTION TO AUTOMATICALLY	FIXUP
	CHANGE ALL OTHER SECTIONS.	FIXUP
	2017/5/20 million (2) is an longer allowed	FIXUP
	2017/5/20 - This option (2) is no longer allowed	FIXUP
	TRANSFER THE ADDRESS IN THE ADDRESS AD	FIXUP
	WARNING: Threshold Correction is no longer allowed.	FIXUP
	This option has resulted in far too much	FIXUP
	misinterpretation and as such it is judged to	FIXUP
	be too dangerous to be allowed in this code.	FIXUP
	For example, the Laboratory frame of reference	FIXUP
	threshold is temperature dependent = it is not uniquely defined by 0 value and storic weight	FIXUP
	uniquely defined by Q value and atomic weight. ThIS OPTION is IGNORED.	FIXUP
	THIS OFFICE IS IGNORED.	FIXUP
(2)	CORRECT CROSS SECTION (MF=3) THRESHOLDS. THE Q-VALUE AND AWR	FIXUP
(2)	ARE USED TO DERIVE THE REACTION THRESHOLD USING THE RELATION,	FIXUP
	ARE USED TO DERIVE THE REACTION THRESHOLD USING THE RELATION,	FIXUP
	E-THRESHOLD = - (Q-VALUE) * (AWRE+1.0) /AWRE	FIXUP
	E TIRESHOLD - (Q VALOE) * (AWRETT: 0) / AWRE	FIXUE
	IF THE THRESHOLD IS POSITIVE THE CROSS SECTION IS CHECKED TO	
	INSURE THAT THE FIRST TABULATED POINT IS AT THE THRESHOLD AND	
	HAS A ZERO CROSS SECTION. IF NOT, THE CROSS SECTION WILL BE	FIXUP
	CHANGED.	FIXUP
	(A) IF THE FIRST TABULATED POINT IS ABOVE THE THRESHOLD AND	FIXUP
	HAS A ZERO CROSS SECTION, THE POINT IS DELETED AND A POINT	
	IS INSERTED AT THE THRESHOLD.	FIXUP
		FIXUP
	HAS A NON-ZERO CROSS SECTION, A POINT WITH ZERO CROSS	FIXUP
	SECTION IS INSERTED AT THE THRESHOLD.	FIXUP
		FIXUP
	HAS A NON-ZERO CROSS SECTION, ALL POINTS BELOW THE	FIXUP
	THRESHOLD ARE DELETED AND A POINT WITH ZERO CROSS SECTION	
	IS INSERTED AT THE THRESHOLD.	FIXUP
		FIXUP
	2017/5/20 - This option (2) is no longer allowed	FIXUP
		FIXUP
(3)	EXTEND ALL CROSS SECTIONS (MF=3) TO 20 MEV. IF THE TABULATED	FIXUP
	CROSS SECTION ENDS BELOW 20 MEV IT WILL BE EXTENDED TO 20 MEV	
	AS EITHER ZERO (IMOPS(3)=1) OR CONSTANT (IMOPS(3)=2) EQUAL	FIXUP
	TO THE LAST TABULATED VALUE.	FIXUP

- (4) ALLOW REACTION (MF=3, ANY MT) DELETION. ALL SPECIFIED FIXUP REACTIONS WILL BE DELETED WHEN THE DATA IS READ FROM THE FIXUP INPUT ENDF DATA FILE AND WILL NOT BE IN THE OUTPUT ENDF FIXUP DATA FILE. WARNING DELETED REACTIONS MAY NOT BE USED TO DEFINEFIXUP ANY RECONSTRUCTED REACTIONS (I.E. REACTIONS DEFINED BY SUMMINGFIXUP OTHER REACTIONS). SINCE DELETED REACTIONS ARE DELETED DURING FIXUP READING IT IS AS IF THEY NEVER EXISTED AND IF ANY DELETED FTXIIP REACTION IS REQUIRED LATER TO DEFINE ANY SUM AN ERROR WILL FIXUP RESULT. THE USER MAY SPECIFY THAT THE DELETION RULES ARE TO BEFIXUP READ FROM INPUT (IMOPS(4)=1) OR THAT THE BUILT IN SUMMATION FIXUP RULES ARE TO BE USED (MOPS(4)=2). AT THE PRESENT TIME THE FIXUP BUILT-IN DELETION RULES ARE THAT NO SECTIONS SHOULD BE DELETEDFIXUP (THE USER MAY OVERRIDE THIS CONVENTION BY INPUT). FTXUP
- (5) ALLOW REACTION (MF=3, ANY MT) RECONSTRUCTION BY SUMMING OTHER FIXUP REACTIONS. IN ORDER TO OPTIMIZE THE RUNNING TIME OF THIS FIXUP PROGRAM CARE SHOULD BE EXERCISED TO MINIMIZE THE NUMBER OF FIXUP TIMES THAT EACH CONTRIBUTING CROSS SECTION MUST BE USED. FIXUP THE USED MAY SPECIFY THAT THE SUMMATION RULES ARE TO BE READ FIXUP FIXUP AS INPUT (IMOPS(5)=1) OR THAT THE BUILT IN SUMMATION RULES ARE TO BE USED (IMOPS(5)=2). THE BUILT IN SUMMATION RULES ARE FIXUP DESIGNED TO USE ENDF CONVENTIONS AND TO MINIMIZE THE NUMBER FIXUP OF TIMES THAT EACH CROSS SECTION IS USED. FIXUP
- (6) INSURE THAT ALL CROSS SECTIONS ARE NON-NEGATIVE (I.E. ARE FIXUP ZERO OR POSITIVE). DURING READING ALL NEGATIVE CROSS SECTIONS FIXUP WILL BE SET EOUAL TO ZERO AND TREATED AS SUCH DURING ALL FIXUP SUBSEQUENT SUMMATIONS AND ENDF OUTPUT. FIXUP NOTE...THIS OPTION SHOULD NEVER BE USED WITH DATA CONTAINING FTXUP BACKGROUND CROSS SECTIONS WHICH MAY BE NEGATIVE. ONLY AFTER FIXUP THE RESONANCE CONTRIBUTION HAS BEEN ADDED TO THE BACKGROUND FIXUP TO DEFINE THE ACTUAL CROSS SECTION IS IT VALID TO ELIMINATE FIXIP NEGATIVE CROSS SECTIONS. FIXUP NOTE...THIS OPTION MAY BE USED TO DELETE NEGATIVE ELASTIC FIXUP CROSS SECTIONS THAT MAY RESULT FROM RECONSTRUCTING CROSS FIXUP SECTIONS FROM SINGLE LEVEL BREIT-WIGNER PARAMETERS. IF THE FIXUP TOTAL CROSS SECTION IS THEN RECONSTRUCTED USING THE CORRECTED FIXUP ELASTIC CROSS SECTION THE TOTAL WILL BE POSITIVE DUE TO THE FTXUP
- CONTRIBUTIONS OF CAPTURE AND FISSION (THUS AVOIDING NUMERICAL FIXUP INSTABILITY PROBLEMS DURING SELF-SHIELDING CALCULATIONS). FIXUP (7) WITHIN EACH SECTION OF CROSS SECTIONS DELETE ENERGIES THAT FIXUP
- ARE NOT IN ASCENDING ENERGY ORDER (ENERGY REPETITION IS O.K.) FIXUP (8) WITHIN EACH SECTION OF CROSS SECTIONS ELIMINATE DUPLICATE FIXUP
- POINTS (SUCCESSIVE POINTS WITH THE SAME ENERGY-CROSS SECTION).FIXUP (9) TEST THAT ALL SECTIONS ARE IN ASCENDING MAT/MF/MT ORDER. FIXUP IF NOT, NO CORRECTIVE ACTION WILL BE TAKEN, ONLY AN ERROR FIXUP MESSAGE WILL BE OUTPUT. FIXUP
- (10) CHECK MF/MT FOR EACH SECTION TO INSURE THAT THEY ARE DEFINED FIXUP IN THE ENDF FORMAR MANUAL. IF THEY ARE NOT DEFINED AN ERROR FIXUP MESSAGE IS PRINTED, BUT NO CORRECTIVE ACTION IS TAKEN. FIXUP
- (11) ALLOW SECTIONS WHICH ARE NOT PRESENT IN THE ORIGINAL (INPUT) FIXUP EVALUATION TO BE CREATED. NORMALLY THIS PROGRAM WILL ONLY FTXUP RECONSTRUCT AND OUTPUT SECTIONS IF THE SECTION IS PRESENT FIXUP IN THE ORIGINAL EVALUATION. THIS PROCEDURE IS FOLLOWED BECAUSEFIXUP NORMALLY THE PROGRAM DOES NOT KNOW HOW TO DEFINE THE CONTENTS FIXUP OF THE FIRST TWO LINES OF THE SECTION (E.G., Q-VALUE, FIXUP TEMPERATURE, INITIAL AND FINAL STATES). THIS OPTION MAY BE FIXUP USED TO ALLOW THE PROGRAM TO READ AND SAVE A TABLE DEFINING FIXUP FIXUP THE CONTENTS OF THE FIRST TWO LINES OF EACH SECTION TO BE CREATED FIXUP FIXUP

NOTE...IF A SECTION IS PRESENT ANY COMMAND TO CREATE IT WILL FIXUP BE IGNORED. FIXUP

- (12) ALLOW ENERGY POINTS TO BE INSERTED. THE PROGRAM CAN READ UP TO 50, ENERGIES, MAT, MT AND USE LINEAR INTERPOLATION TO INSERT ENERGY POINTS INTO TABLES AS THEY ARE READ, E.G., INSERT AN ENERGY POINT AT THERMAL ENERGY (0.0253 EV). IF AN MAT AND/OR MT IS ZERO THIS IMPLIES = ALL - INSERT THE ENERGY IN ALL TABLES.
- (13) PUT ALLOW CROSS SECTIONS ON A UNIFORM ENERGY GRID = EACH FIXUP SECTION (MT) OF CROSS SECTIONS WILL INCLUDE ALL ENERGIES FIXUP WHICH APPEAR IN AT LEAST ONE SECTION OF DATA. PARAMETERS FIXUP (MT=251 THROUGH 255) ARE NOT INCLUDED IN THE UNIFORM ENERGY FIXUP GRID. FIXUP

CREATING FATIOS AND FRODUCTS FILL IN ORDER TO CREATE RATIOS AND FRODUCTS = NEW MT NUMBERS, YOU MUST FIX IN ORDER TO CREATE RATIOS AND FRODUCTS = NEW MT NUMBERS, YOU MUST FIX I) DEFINE EACH NEW MT NUMBER AS A RATIO OR PRODUCT OF TWO MT NUMBERS. 2) USE THE CREATE MT NUMBER OPTION AND INPUT THE FIRST TWO LINES FIX OF THE SECTION WARNING - UNLESS YOU DO BOTH OF THESE YOU WILL NOT OBTAIN OUTPUT FIX IN THE ENDF FORMAT. TWO SPECIAL MT NUMBERS HAVE BEEN DEFINED BY CSEWG INVOLVING FIX WARNING - UNLESS YOU DO BOTH OF THESE YOU WILL NOT OBTAIN OUTPUT FIX TWO SPECIAL MT NUMBERS HAVE BEEN DEFINED BY CSEWG INVOLVING FIX WARNING - UNLESS YOU DO BOTH OF THESE YOU WILL NOT OBTAIN OUTPUT FIX TWO SPECIAL MT NUMBERS HAVE BEEN DEFINED BY CSEWG INVOLVING FIX TWO SPECIAL MT NUMBERS HAVE BEEN DEFINED BY CSEWG INVOLVING FIX ALPHA (MT=254) = CAPTURE (MT=102)/FISSION (MT=18)/ABSORPTION (MT=27)FIX ALPHA (MT=255) = NU-BAR (MT=452)*FISSION (MT=18)/ABSORPTION (MT=27)FIX AS YET THERE IS NO STANDARD DEFINITION OF MT NUMBERS FOR RATIO FIX ANY IDEA HOW TO INTERRET THE RESULTS, I.E., NOBODY ELSE WILL HAVE FIX TO R PROQUCT DATA. YOU ARE FREE TO USE ANY MT NUMBERS NORMALLY NOT FIX THIS PROGRAM CAN BE ONLY DIRECTLY DEFINE RATIOS AND PRODUCTS FIX THIS PROGRAM CAN BE ONLY DIRECTLY DEFINE RATIOS AND PRODUCTS FIX THIS PROGRAM CAN DE CONLY DIRECTLY DEFINE RATIOS AND PRODUCTS FIX THIS PROGRAM CANNOT DIRECTLY DEFINE RATIO OR PRODUCT OF A SUM OF FIX A SECOND DUMMY MT NUMBER TO DE A SECOND SUM OF SECTIONS. YOU CAN FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWER, MIN FIX THE DONE INDIRECTLY BY FIRST DEFINING A DUMMY MT NUMBER (ANY MT FIX THIS PROGRAM CANNOT DIRECTLY DEFINE NATIO OR PRODUCT OF A SUM OF FIX THY DEDIEND (MT=27) + (MT=27) + (SUM OF MT=102 THROUGH 116) FIX FIX FOR EXAMPLE, TO DEFINE TA, FIX FOR EXAMPLE, TO DEFINE TA,	<pre>(14) DELETE SECTION IF CROSS SECTION = 0 AT ALL ENERGIES. THIS SOUNDS LIKE AN ABSURD OPTION, BUT IS REQUIRED BECAUSE SUCH SECTIONS EXIST IN ENDF/B-VI DATA.</pre>	FIXUP FIXUP FIXUP
IN ORDER TO CREATE RATIOS AND PRODUCTS = NEW MT NUMBERS, YOU MUST FIX DO TWO THINGS, TX DO TWO THINGS, 1) DEFINE EACH NEW MT NUMBER ÀS A RATIO OR PRODUCT OF TWO MT FIX NUMBERS. 2) USE THE CREATE MT NUMBER OPTION AND INPUT THE FIRST TWO LINES FIX OF THE SECTION WARNING - UNLESS YOU DO BOTH OF THESE YOU WILL NOT OBTAIN OUTPUT FIX IN THE ENDF FORMAT. TWO SPECIAL MT NUMBERS HAVE BEEN DEFINED BY CSEWG INVOLVING FIX RATIOS AND PRODUCTS, ALPHA (MT=254) = CAPTURE (MT=102)/FISSION (MT=18) FIX PT THERE IS NO STANDARD DEFINITION OF MT NUMBERS FOR RATIO FIX ABSORPTION (MT=27) = FISSION (MT=18) + SUM (MT=102 THROUGH 116) FIX AS YET THERE IS NO STANDARD DEFINITION OF MT NUMBERS FOR RATIO FIX ANN IDEA HOW TO INTERPRET THE RESULTS, I.E., NOBODY ELSE WILL HAVE FIX ANN IDEA HOW TO INTERPRET A TABLE OF DATA ASSOCIATED WITH THE MT FIX ANN IDEA HOW TO INTERPRET A TABLE OF DATA ASSOCIATED WITH THE AT FIX ANN IDEA HOW TO INTERPRET A TABLE OF DATA ASSOCIATED WITH THE AND FIX SECTIONS TO THERE DEFINES END OF SECTIONS. HOUCY FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWER, AND FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWER (ANY MT FIX NUMBERS NOU HAVE USED. THIS PROGRAM CAN BE ONLY DIRECTLY DEFINE RATIOS AND PRODUCTS FIX USING THOM TO INTERPRET THE RESULTS, I.E., DEFINE THE CAPTUREFY AS SCOTTONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX THIS PROGRAM CANNOT DIRECTLY DEFINE RATIO OR PRODUCT OF A SUM OF FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX THIS PROGRAM CANNOT DIRECTLY DEFINE RATIO OR PRODUCT OF A SUM OF FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. YOU CAN FIX THE DEFINE (MT=333) (MT=452)*(MT=16) FIX THE DEFINE (MT=333) (MT=452)*(MT=16) FIX THEO DEFINE (MT=333) (MT=452)*(MT=16) FIX THEN DEFINE (MT=333) (MT=452)*(MT=16) FIX THEO DEFINE (MT=333) (MT=452)*(MT=16) FIX THE DEFINE (MT=333) (MT=452)*(MT=16) FIX THIS PROGRAM MAY ME NUMBERS. FIX THIS PROGRAM MAY ME NUMBERS. FIX THE DEFINE (MT=333) (MT=452)*(MT=16) FIX THIS PROGRAM MAY ME USED WITH DATA IN A	CREATING RATIOS AND PRODUCTS	FIXUP FIXUP
1) DEFINE EACH NEW MT NUMBER AS A RATIO OR PRODUCT OF TWO MT FIX NUMBERS. FIX 2) USE THE CREATE MT NUMBER OPTION AND INPUT THE FIRST TWO LINES FIX OF THE SECTION FIX WARNING - UNLESS YOU DO BOTH OF THESE YOU WILL NOT OBTAIN OUTPUT FIX IN THE ENDF FORMAT. FIX WARNING - UNLESS YOU DO BOTH OF THESE YOU WILL NOT OBTAIN OUTPUT FIX IN THE ENDF FORMAT. FIX WARNING - UNLESS YOU DO BOTH OF THESE YOU WILL NOT OBTAIN OUTPUT FIX IN THE ENDF FORMAT. FIX WARNING - UNLESS YOU DO BOTH OF THESE YOU WILL NOT OBTAIN OUTPUT FIX FATIOS AND PRODUCTS, FIX ALPHA (MT=254) = CAPTURE (MT=102)/FISSION (MT=18) FIX ALPHA (MT=255) = NU-BAR (MT=452)*FISSION (MT=18) /ABSORPTION (MT=27)FIX ABSORPTION (MT=27) = FISSION (MT=18) + SUM (MT=102 THROUGH 116) FIX OR FRODUCT DATA. YOU ARE FREE TO USE ANY MT NUMBERS FOR RATIO FIX USED IN THE ENDF. HOWEVER, IT WILL THEN BE YOUR RESPONSIBILITY FIX TO PROPENLY INTERPRET THE RESULTS, I.E., NOBODY ELSE WILL HAVE FIX NUMBERS YOU HAVE USED. FIX THIS PROGRAM CAN BE ONLY DIRECTLY DEFINE RATIOS AND FROUDCTS FIX SECTIONS TO THE SUM OF ANOTHER SET OR SALTO FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FUX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX NUMBERN NOT NORMERER THE RESOLTS OR SECTIONS. HOWEVER, THIS CAN FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX NUMBERN NOT NORMALLY USED IN ENDF TO BE A SUM OF SECTIONS. YOU CAN FIX THEN DEFINE RATIO OR PRODUCT YOU REQUIRE TO BE THE RATIO OF THESE FIX NUMBERN NOT NORMALLY USED IN ENDF TO BE A SUM OF SECTIONS. YOU CAN FIX THEN DEFINE (MT=27) = (MT=27) + (SUM OF MT=102 THROUGH 116) FIX A SECOND DUMMY MT NUMBERS TO BE A SECOND SUM OF SECTIONS. YOU CAN FIX THEN DEFINE (MT=27) = (MT=27) + (SUM OF MT=102 THROUGH 116) FIX A SECOND MAY MT NUMBERS TO BE A SECOND OF SECTIONS AND FIX THE ONLY SPECIAL CONVENTIONS USED BY THIS FROGRAM IN CALCULATING FIX THE ONLY SPECIAL CONVENTIONS USED BY THIS FROGRAM IN CALCULATING FIX THIS FROGRAM MAY BE USED WITH DATA IN ANY VERSION OF THE ENDF FIX THIS FROGRAM MAY BE US		FIXUP FIXUP FIXUP
2) USE THE CREATE MT NUMBER OPTION AND INPUT THE FIRST TWO LINES FIX OF THE SECTION FIX WARNING - UNLESS YOU DO BOTH OF THESE YOU WILL NOT OBTAIN OUTPUT FIX IN THE ENDEF FORMAT. FIX TWO SPECIAL MT NUMBERS HAVE BEEN DEFINED BY CSEWG INVOLVING FIX RATIOS AND PRODUCTS, FIX ALPHA (MT=254) = CAPTURE (MT=102)/FISSION (MT=18) FIX ETA (MT=255) = NU-BAR (MT=452)*FISSION (MT=18)/ABSORPTION (MT=27)FIX BSORPTION (MT=27) = FISSION (MT=18) + SUM (MT=102 THROUGH 116) FIX AS YET THERE IS NO STANDARD DEFINITION OF MT NUMBERS FOR RATIO FIX OR PRODUCT DATA. YOU ARE FREE TO USE ANY MT NUMBERS FOR RATIO FIX OR PRODUCT DATA. YOU ARE FREE TO USE ANY MT NUMBERS FOR RATIO FIX NUMBERS YOU HAVE USED. FIX THIS PROGRAM CAN BE ONLY DIRECTLY DEFINE RATIOS AND PRODUCTS FIX USING TWO MT NUMBERS = BINARY OPERATIONS, E.G., DEFINE THE CAPTUREFIX TO FROERALY INTERFRET THE RESULTS, I.E., NOBOLY ELSE WILL HAVE FIX USING TWO MT NUMBERS = BINARY OPERATIONS, E.G., DEFINE THE CAPTUREFIX TO FISSION RATIO, OR DEFINE THE PRODUCT NU-BAR*FISSION. FIX USING TWO MT NUMBERS = BINARY OPERATIONS, E.G., DEFINE THE CAPTUREFIX TO FISSION RATIO, OR DEFINE THE PRODUCT NU-BAR*FISSION. FIX USING TWO MT NUMBERS = BINARY OPERATIONS, E.G., DEFINE THE CAPTUREFIX TO FISSION RATIO, OR DEFINE THE PRODUCT NU-BAR*FISSION. FIX THIS PROGRAM CANNOT DIRECTLY DEFINE RATIO OR PRODUCT OF A SUM OF FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX THO DEFINE (MT=23) = (MT=27) + (SUM OF MT=102 THROUGH 116) FIX A) SECOND DUMMY MT NUMBER. DE BA SUCOND SUM OF SECTIONS. YOU CAN FIX THEN DEFINE (MT=233) = (MT=452)*(MT=18) DO NOT FORGET TO TURE ON THE CREATE SECION OFTON (ON THE FIRST FIX NOT LINNE, AND INPUT THE FIRST TWO LINES OF SECTION MT=255 - FIX NOTHER MEENTHE DEMONING OF THE RATIO IS DEFINED TO HE FIRST FIX NINDER LIND, AND INPUT THE FIRST TWO LINES OF SECTION MT=255 - FIX OTHERWISE YOU WILL NOT GET ANY ENDE FORMATIC DUTPUT. FIX THE DEFINE (MT=275) = (MT=33)/(MT=27) DO NOT FORGET TO TURE DEMONTOR OF THE RATIO IS DEFINED TO FIX THE DEFINE (MT=255) = (MT=33)/(MT=27		FIXUP FIXUP FIXUP
WARNING - UNLESS YOU DO BOTH OF THESE YOU WILL NOT OBTAIN OUTPUT FIX IN THE ENDF FORMAT. FIX TWO SPECIAL MT NUMBERS HAVE BEEN DEFINED BY CSEWG INVOLVING RIX ALPHA (MT=254) = CAPTURE (MT=102)/FISSION (MT=18) ALPHA (MT=255) = NU-BAR (MT=452)*FISSION (MT=18)/ABSORPTION (MT=27)FIX FIX ABSORPTION (MT=27) = FISSION (MT=18) + SUM (MT=102 THROUGH 116) FIX AS YET THERE IS NO STANDARD DEFINITION OF MT NUMBERS NORMALLY NOT FIX OR PRODUCT DATA. YOU ARE FREE TO USE ANY MT NUMBERS NORMALLY NOT FIX USED IN THE ENDF. HOWEVER, IT WILL THEN BE YOUR RESPONSIBILITY FIX IN THE ENDF. HOWEVER, IT WILL THEN BE YOUR RESPONSIBILITY FIX NUMBERS YOU HAVE USED. FIX THIS PROGRAM CAN BE ONLY DIRECTLY DEFINE RATIOS AND PRODUCTS FIX USING TWO MT NUMBERS = BINARY OPERATIONS, E.G., DEFINE THE CAPTUREFIX THIS PROGRAM CAN BE ONLY DIRECTLY DEFINE RATIOS AND PRODUCTS FIX THIS PROGRAM CAN BE ONLY DIRECTLY DEFINE RATIOS AND PRODUCT FIX USING TWO MT NUMBERS = BINARY OPERATIONS, E.G., DEFINE THE CAPTUREFIX THIS PROGRAM CANNOT DIRECTLY DEFINE RATIO OR PRODUCT OF A SUM OF FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX NUMBER NOT NORMALLY USED IN ENDF) TO BE A SUM OF SECTIONS AND FIX A SECOND DUMMY MT NUMBER. TO BE A SECOND SUM OF SECTIONS. AND FIX A SECOND DUMMY MT NUMBER. TO BE A SECOND SUM OF SECTIONS. AND FIX A SECOND DUMMY MT NUMBER. TO BE A SECOND SUM OF SECTIONS AND FIX A SECOND DUMMY MT NUMBER. FIX FIX FOR EXAMPLE, TO DEFINE FTA, 1) FIRST DEFINE (MT=27) + (SUM OF MT=102 THROUGH 116) FIX 2) NEXT DEFINE (MT=27) = (MT=27) + (SUM OF MT=102 THROUGH 116) FIX 1) FIXS DEFINE (MT=233) = (MT=452)*(MT=18) 1) FIXS PROGRAM MAY BE USED STOR EXED ST THIS PROGRAM IN CALCULATING FIX RATIOS ARE WHEN THE DENOMINATOR OF THE RATIO IS DEFINED TO BE ONE.FIX INFUT LINE) AND INPUT THE FIRST TWO LINES OF SECTION MT=255 - FIX OTHERWISE YOU WILL NOT GET ANY ENDF FORMATTED OUTPUT. FIX FIND DEFINE (MT=333) = (MT=452)*(MT=27) 10 NOT FORORAT HE DENOFINATOR USED BY THIS PROGRAM IN CALC	•	FIXUP FIXUP FIXUP
TWO SPECIAL MT NUMBERS HAVE BEEN DEFINED BY CSEWG INVOLVING FIX RATIOS AND PRODUCTS, FIX ALPHA (MT=254) = CAPTURE (MT=102)/FISSION (MT=18) ALPHA (MT=255) = NU-BAR (MT=452)*FISSION (MT=18)/ABSORPTION (MT=27)FIX ETA (MT=255) = NU-BAR (MT=452)*FISSION (MT=18)/ABSORPTION (MT=27)FIX ABSORPTION (MT=27) = FISSION (MT=18) + SUM (MT=102 THROUGH 116) FIX AS YET THERE IS NO STANDARD DEFINITION OF MT NUMBERS FOR RATIO FIX AS YET THERE IS NO STANDARD DEFINITION OF MT NUMBERS FOR RATIO FIX OR PRODUCT DATA. YOU ARE FREE TO USE ANY MT NUMBERS NORMALLY NOT FIX USED IN THE ENDF. HOWEVER, IT WILL THEN BE YOUR RESPONSIBILITY FIX TO PROPERLY INTERPRET THE RESULTS, I.E., NOBODY ELSE WILL HAVE FIX ANY IDEA HOW TO INTERPRET A TABLE OF DATA ASSOCIATED WITH THE MT FIX UNUMBERS YOU HAVE USED. FIX THIS PROGRAM CAN BE ONLY DIRECTLY DEFINE RATIOS AND PRODUCTS FIX USING TWO MT NUMBERS = BINARY OPERATIONS, E.G., DEFINE THE CAPTUREFIX TO FISSION RATIO, OR DEFINE THE PRODUCT NU-BAR*FISSION. FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, HIS CAN FIX NUMBER NOT NORMALLY USED IN ENDF) TO BE A SUM OF SECTIONS AND FIX A SECOND DUMMY MT NUMBER TO BE A SECOND SUM OF SECTIONS AND FIX A SECOND DUMMY MT NUMBERS. FIX NUMBER NOT NORMALLY USED IN ENDF) TO BE A SUM OF SECTIONS AND FIX THO DUMMY MT NUMBERS. FIX FIX FOR EXAMPLE, TO DEFINE TETA, FIX I) FIXST DEFINE (MT=27) = (MT=27) + (SUM OF MT=102 THROUGH 116) FIX I) NEXT DEFINE (MT=27)] = (MT=427) + (SUM OF MT=102 THROUGH 116) FIX I) NEXT DEFINE (MT=233) = (MT=452) * (MT=16) FIX THE ONLY SPECIAL CONVENTIONS USED BY THIS PROGRAM IN CALCULATING FIX NATIOS ARE WHEN THE DEMOMINATOR OF THE RATIO IS DEFINED TO BE ONE. FIX IN THIS CASE IF THE NUMERATOR IS NOT ZERO THE RATIO IS DEFINED TO BE ONE. FIX THE ONLY SPECIAL CONVENTIONS USED BY THIS PROGRAM IN CALCULATING FIX NATIOS ARE WHEN THE DEMOMINATOR OF THE RATIO IS DEFINED TO BE ONE. FIX THE NUM SPECIAL CONVENTIONS USED BY THIS PROGRAM IN CALCULATING FIX NT HIS CASE IF THE NUMERATOR IS NOT ZERO THE RATIO IS DEFINED TO BE ONE. FIX FORMAT (I.E. ENDF-1, 2		FIXUP
ALPHA (MT=254) = CAPTURE (MT=102)/FISSION (MT=18) FIX FIX FIX FIX FIX FIX ETA (MT=255) = NU-BAR (MT=452)*FISSION (MT=18)/ABSORPTION (MT=27)FIX ASSORPTION (MT=27) = FISSION (MT=18) + SUM (MT=102 THROUGH 116) FIX AS YET THERE IS NO STANDARD DEFINITION OF MT NUMBERS FOR RATIO FIX AS YET THERE IS NO STANDARD DEFINITION OF MT NUMBERS FOR RATIO FIX AS YET THERE IS NO STANDARD DEFINITION OF MT NUMBERS FOR RATIO FIX ASY DET THERE IS NO STANDARD DEFINITION OF MT NUMBERS FOR RATIO FIX ASY DET THERE IS NO STANDARD DEFINITION OF MT NUMBERS FOR RATIO FIX ASY DET HERE IS NO STANDARD DEFINITION OF MT NUMBERS NORMALLY NOT USED IN THE ENDF. HOWEVER, IT WILL THEN BE YOUR RESPONSIBILITY FIX ANY IDEA HOW TO INTERPRET THE RESULTS, I.E., NORBOLY LISE WILL HAVE FIX THIS FROGRAM CAN BE ONLY DIRECTLY DEFINE RATIOS AND PRODUCTS FIX THIS FROGRAM CAN BE ONLY DIRECTLY DEFINE RATIOS AND PRODUCTS FIX THIS FROGRAM CANNOT DIRECTLY DEFINE RATIO OR PRODUCT OF A SUM OF SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX NUMBER NOT NORMALLY USED IN ENDP) TO BE A SUM OF SECTIONS AND FIX THEN DEFINE RATIO OR PRODUCT YOU REQUIRE TO BE THE RATIO OF THESE FIX FOR EXAMPLE, TO DEFINE ETA, 1) FIRST DEFINE (MT=27) = (MT=27) + (SUM OF MT=102 THROUGH 116) FIX 2) NEXT DEFINE (MT=233) = (MT=452) * (MT=18) 2) NEXT DEFINE (MT=255) = (MT=452) * (MT=18) 3) LAST DEFINE (MT=255) = (MT=452) * (MT=18) 3) LAST DEFINE (MT=255) = (MT=452) * (MT=18) 5) TIX THEN DEFINE (MT=255) = (MT=452) * (MT=18) 5) LAST DEFINE (MT=255) = (MT=452) * (MT=18) 5) TIX THEN DEFINE (MT=255) = (MT=452) * (MT=18) 5) TIX THEN DEFINE (MT=255) = (MT=452) * (MT=18) 5) TIX THEN DEFINE (MT=255) = (MT=512) * (MT=518) FIX THEN DEFINE (MT=255) = (MT=518) FIX THEN DEFINE (MT=255) = (MT		FIXUP FIXUP
ETA (MT=255) = NU-BAR (MT=452)*FISSION (MT=18)/ABSORPTION (MT=77)FIX FIX ABSORPTION (MT=27) = FISSION (MT=18) + SUM (MT=102 THROUGH 116) FIX AS YET THERE IS NO STANDARD DEFINITION OF MT NUMBERS FOR RATIO OR PRODUCT DATA. YOU ARE FREE TO USE ANY MT NUMBERS FOR RATIO FIX AS YET THERE IS NO STANDARD DEFINITION OF MT NUMBERS FOR RATIO FIX AS YET THERE IS NO STANDARD DEFINITION OF MT NUMBERS FOR RATIO FIX USED IN THE ENDF. HOWEVER, IT WILL THEN BE YOUR RESPONSIBILITY ANY IDEA HOW TO INTERPRET THE RESULTS, I.E., ONBODY ELSE WILL HAVE FIX ANY IDEA HOW TO INTERPRET THE RESULTS, I.E., ONBODY ELSE WILL HAVE FIX THIS PROGRAM CAN BE ONLY DIRECTLY DEFINE RATIOS AND PRODUCTS FIX USING TWO MT NUMBERS = BINARY OPERATIONS, E.G., DEFINE THE CAPTUREFIX USING TWO MT NUMBERS = BINARY OPERATIONS, E.G., DEFINE THE CAPTUREFIX THIS PROGRAM CANNOT DIRECTLY DEFINE RATIO OR PRODUCT OF A SUM OF FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX BE DONE INDIRECTLY BY FIRST DEFINING A DUMMY MT NUMBER (ANY MT FIX NUMBER NOT NORMALLY USED IN ENDF) TO BE A SUM OF SECTIONS. YOU CAN FIX THEN DEFINE RATIO OR PRODUCT YOU REQUIRE TO BE THE RATIO OF THESE FIX NUMBER NOT NORMALLY USED IN ENDF) TO BE A SUM OF SECTIONS. YOU CAN FIX THEN DEFINE RATIO OR PRODUCT YOU REQUIRE TO BE THE RATIO OF THESE FIX NUMBER MIT NUMBERS. FOR EXAMPLE, TO DEFINE ETA, 1) FIRST DEFINE (MT=27) = (MT=452)*(MT=18) 1 LAST DEFINE (MT=233) = (MT=452)*(MT=18) 1 LAST DEFINE (MT=233) = (MT=452)*(MT=18) 1 LAST DEFINE (MT=255) = (MT=452)*(MT=18) 1 KIN DEFINE (MT=255) = (MT=452)*(MT=18) 1 KIN DEFINE (MT=255) = (MT=452)*(MT=18) 1 KIN DEFINE (MT=255) = (MT=452)*(MT=18) 1 FIX THE ONLY SPECIAL CONVENTIONS USED BY THIS PROGRAM IN CALCULATING FIX THE ONLY SPECIAL CONVENTIONS USED BY THIS PROGRAM IN CALCULATING FIX NTHE SASE IF THE NUMERATOR IS ALSO ZERO THE RATIO IS DEFINED TO BE ONE.FIX IN THIS CASE IF THE NUMERATOR IS ALSO ZERO THE RATIO IS DEFINED FIX TO BE ZERO. FIX ENDF FORMAT FIX ENDF FORMAT FIX	ALPHA (MT=254)= CAPTURE (MT=102)/FISSION (MT=18)	FIXUP
ABSORPTION (MT=27) = FISSION (MT=18) + SUM (MT=102 THROUGH 116) FIX FIX AS YET THERE IS NO STANDARD DEFINITION OF MT NUMBERS FOR RATIO FOR PRODUCT DATA. YOU ARE FREE TO USE ANY MT NUMBERS NORMALLY NOT FIX USED IN THE ENDF. HOWEVER, IT WILL THEN BE YOUR RESPONSIBILITY TO PROPERLY INTERPRET THE RESULTS, I.E., NOBODY ELSES WILL HAVE FIX ANY IDEA HOW TO INTERPRET A TABLE OF DATA ASSOCIATED WITH THE MT FIX NUMBERS YOU HAVE USED. FIX USING TWO MT NUMBERS = BINARY OPERATIONS, E.G., DEFINE THE CAPTUREFIX TO FISSION RATIO, OR DEFINE THE PRODUCT NU-BAR*FISSION. FIX USING TWO MT NUMBERS = BINARY OPERATIONS, E.G., DEFINE THE CAPTUREFIX TO FISSION RATIO, OR DEFINE THE PRODUCT NU-BAR*FISSION. FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX BE DONE INDIRECTLY BY FIRST DEFINING A DUMMY MT NUMBER (ANY MT IX NUMBER NOT NORMALLY USED IN ENDF) TO BE A SUM OF SECTIONS. YOU CAN FIX THEN DEFINE RATIO OR PRODUCT YOU REQUIRE TO BE THE RATIO OF THESE FIX THEN DEFINE RATIO OR PRODUCT YOU REQUIRE TO BE THE RATIO OF THESE FIX TWO DIMMY MT NUMBERS. FIX FOR EXAMPLE, TO DEFINE ETA, FIX 1) FIRST DEFINE (MT=27) = (MT=27) + (SUM OF MT=102 THROUGH 116) FIX 2) NEXT DEFINE (MT=333) = (MT=452)*(MT=18) FIX 3) LAST DEFINE (MT=255) = (MT=332)/(MT=27) FIX THE ONLY SPECIAL CONVENTIONS USED BY THIS PROGRAM IN CALCULATING FIX THE ONLY SPECIAL CONVENTIONS USED BY THIS PROGRAM IN CALCULATING FIX TATIOS ARE WHEN THE DENOMINATOR OF THE RATIO IS DEFINED TO BE OKE.FIX THE ONLY SPECIAL CONVENTIONS USED BY THIS PROGRAM IN CALCULATING FIX THIS PROGRAM MAY BE USED WITH DATA IN ANY VERSION OF THE ENDF FIX THIS PROGRAM MAY BE USED WITH DATA IN ANY VERSION OF THE ENDF FIX THER FIX FIX TO THE SIZE OF TABLES (E.G. THE TATIO IS DEFINED FIX FIX THER FINE IN TO THE SIZE OF TABLES (E.G. THE TOTAL CROSS FIX WARNING FIX	ETA (MT=255) = NU-BAR (MT=452)*FISSION (MT=18)/ABSORPTION (MT=27)FIXUP
AS YET THERE IS NO STANDARD DEFINITION OF MT NUMBERS FOR RATIO OR PRODUCT DATA. YOU ARE FREE TO USE ANY MT NUMBERS NORMALLY NOT FIX USED IN THE ENDR. HOWEVER, IT WILL THEN BE YOUR RESPONSIBILITY TO PROPERLY INTERPRET THE RESULTS, I.E., NOBODY ELSE WILL HAVE FIX ANY IDEA HOW TO INTERPRET A TABLE OF DATA ASSOCIATED WITH THE MT FIX NUMBERS YOU HAVE USED. TILS PROGRAM CAN BE ONLY DIRECTLY DEFINE RATIOS AND PRODUCTS FIX THIS PROGRAM CAN BE ONLY DIRECTLY DEFINE RATIOS AND PRODUCTS THIS PROGRAM CANNOT DIRECTLY DEFINE RATIO OR PRODUCT OF A SUM OF SECTIONS NO ATIO, OR DEFINE THE PRODUCT NU-BAR*FISSION. THIS SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX BE DONE INDIRECTLY BY FIRST DEFINING A DUMMY MT NUMBER (ANY MT FIX NUMBER NOT NORMALLY USED IN ENDF) TO BE A SUM OF SECTIONS. AND A SECOND DUMMY MT NUMBER TO BE A SECOND SUM OF SECTIONS. YOU CAN IX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX BE DONE INDIRECTLY BY FIRST DEFINING A DUMMY MT NUMBER (ANY MT FIX ONDER NOT NORMALLY USED IN ENDF) TO BE A SUM OF SECTIONS. AND A SECOND DUMMY MT NUMBERS. FOR FOR EXAMPLE, TO DEFINE ETA, 1) FIRST DEFINE (MT=27) = (MT=452)*(MT=18) 3) LAST DEFINE (MT=333) = (MT=452)*(MT=18) 3) LAST DEFINE (MT=255) = (MT=452)*(MT=18) 3) LAST DEFINE (MT=255) = (MT=452)*(MT=18) 5) CONFORGET TO TORN ON THE CREATE SECTION OFTION (ON THE FIRST FIX THE ONLY SPECIAL CONVENTIONS USED BY THIS PROGRAM IN CALCULATING FIX RATIOS ARE WHEN THE DENOMINATOR OF THE RATIO IS DEFINED TO BE ONE.FIX IN THIS CASE IF THE NUMERATOR IS NOT ZERO THE RATIO IS DEFINED FIX FIX FIX FRORGAM MAY BE USED WITH DATA IN ANY VERSION OF THE ENDF FIX FIX FORMAT FIX PROGRAM MAY BE USED WITH DATA IN ANY VERSION OF THE ENDF FIX FORMAT (I.E. ENDF-1, 2, 3, 4, 5 OR 6 FORMAT). SINCE A FIX FINS FROGRAM MAY BE USED STORE CROSS SECTION TABLES ON SCRATCH FILSS FIX HERE IS NO LIMIT TO THE SIZE OF TABLES (E.G. THE TOTAL CROSS FIX FIX PROMAT (I.E. ENDF-1, 2, 3, 4, 5 OR 6 FORMAT). SINCE A FIX FORMAT (I.E. ENDF	ABSORPTION (MT=27) = FISSION (MT=18) + SUM (MT=102 THROUGH 116)	FIXUP
THIS PROGRAM CAN BE ONLY DIRECTLY DEFINE RATIOS AND PRODUCTS FIX USING TWO MT NUMBERS = BINARY OPERATIONS, E.G., DEFINE THE CAPTUREFIX TO TO FISSION RATIO, OR DEFINE THE PRODUCT NU-BAR*FISSION. FIX THIS PROGRAM CANNOT DIRECTLY DEFINE RATIO OR PRODUCT OF A SUM OF FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX Sections to the SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX NUMBER NOT NORMALLY USED IN ENDF) TO BE A SUM OF SECTIONS AND FIX THEN DEFINE RATIO OR PRODUCT YOU REQUIRE TO BE THE RATIO OF THESE FIX FIX TWO DUMMY MT NUMBER TO BE A SECOND SUM OF SECTIONS. YOU CAN FIX FIX TWO DUMMY MT NUMBERS. FIX FOR EXAMPLE, TO DEFINE ETA, FIX 1) FIRST DEFINE (MT=27) = (MT=27) + (SUM OF MT=102 THROUGH 116) FIX 2) NEXT DEFINE (MT=27) = (MT=452)*(MT=18) FIX 10 NOT FORGET TO TURN ON THE CREATE SECTION OPTION (ON THE FIRST FIX INPUT LINE) AND INPUT THE FIRST TWO LINES OF SECTION MT=255 - 11NPUT LINE) AND INPUT THE FIRST TWO LINES OF SECTION MT=255 - FIX THE ONLY SPECIAL CONVENTIONS USED BY THIS PROGRAM IN CALCULATING FIX FIX TATIOS ARE WHEN THE DENOMINATOR OF THE RATIO IS DEFINED TO BE ONE.FIX IN THIS CASE IF THE NUMERATOR IS NOT ZERO THE RATIO IS DEFINED FIX NO DE ZERO. FIX	OR PRODUCT DATA. YOU ARE FREE TO USE ANY MT NUMBERS NORMALLY NOT USED IN THE ENDF. HOWEVER, IT WILL THEN BE YOUR RESPONSIBILITY TO PROPERLY INTERPRET THE RESULTS, I.E., NOBODY ELSE WILL HAVE ANY IDEA HOW TO INTERPRET A TABLE OF DATA ASSOCIATED WITH THE MT	FIXUP FIXUP FIXUP FIXUP
THIS PROGRAM CANNOT DIRECTLY DEFINE RATIO OR PRODUCT OF A SUM OF FIX SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN FIX NUMBER NOT NORMALLY USED IN ENDF) TO BE A SUM OF SECTIONS AND FIX A SECOND DUMMY MT NUMBER TO BE A SECOND SUM OF SECTIONS. YOU CAN FIX THEN DEFINE RATIO OR PRODUCT YOU REQUIRE TO BE THE RATIO OF THESE FIX TWO DUMMY MT NUMBERS. FIX FOR EXAMPLE, TO DEFINE ETA, FIX 1) FIRST DEFINE (MT=27) = (MT=27) + (SUM OF MT=102 THROUGH 116) FIX 2) NEXT DEFINE (MT=333) = (MT=452)*(MT=18) FIX 3) LAST DEFINE (MT=255) = (MT=333)/(MT=27) FIX DO NOT FORGET TO TURN ON THE CREATE SECTION OPTION (ON THE FIRST FIX THE ONLY SPECIAL CONVENTIONS USED BY THIS PROGRAM IN CALCULATING FIX RATIOS ARE WHEN THE DENOMINATOR OF THE RATIO IS ZERO. IN THIS FIX CASE IF THE NUMERATOR IS ALSO ZERO THE RATIO IS DEFINED TO BE ONE.FIX IN THIS CASE IF THE NUMERATOR IS NOT ZERO THE RATIO IS DEFINED FIX FIX FIX FORMAT ====================================	USING TWO MT NUMBERS = BINARY OPERATIONS, E.G., DEFINE THE CAPTUR	FIXUP
FOR EXAMPLE, TO DEFINE ETA,FIX1) FIRST DEFINE (MT=27) = (MT=27) + (SUM OF MT=102 THROUGH 116)FIX2) NEXT DEFINE (MT=333) = (MT=452)*(MT=18)FIX3) LAST DEFINE (MT=255) = (MT=333)/(MT=27)FIXDO NOT FORGET TO TURN ON THE CREATE SECTION OPTION (ON THE FIRSTFIXINPUT LINE) AND INPUT THE FIRST TWO LINES OF SECTION MT=255 -FIXOTHERWISE YOU WILL NOT GET ANY ENDF FORMATTED OUTPUT.FIXTHE ONLY SPECIAL CONVENTIONS USED BY THIS PROGRAM IN CALCULATINGFIXRATIOS ARE WHEN THE DENOMINATOR OF THE RATIO IS ZERO. IN THISFIXCASE IF THE NUMERATOR IS ALSO ZERO THE RATIO IS DEFINED TO BE ONE.FIXIN THIS CASE IF THE NUMERATOR IS NOT ZERO THE RATIO IS DEFINEDTHIS PROGRAM MAY BE USED WITH DATA IN ANY VERSION OF THE ENDFFIXFORMAT (I.E. ENDF-1, 2, 3, 4, 5 OR 6 FORMAT). SINCE AFIXPAGING SYSTEM IS USED STORE CROSS SECTION TABLES ON SCRATCH FILES FIXFIXPAGING SYSTEM IS USED STORE CROSS SECTION TABLES ON SCRATCH FILES FIXFIXWARNINGFIXFIX=====FIX <td>SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN BE DONE INDIRECTLY BY FIRST DEFINING A DUMMY MT NUMBER (ANY MT NUMBER NOT NORMALLY USED IN ENDF) TO BE A SUM OF SECTIONS AND A SECOND DUMMY MT NUMBER TO BE A SECOND SUM OF SECTIONS. YOU CAN THEN DEFINE RATIO OR PRODUCT YOU REQUIRE TO BE THE RATIO OF THESE</td> <td>FIXUP FIXUP FIXUP FIXUP</td>	SECTIONS TO THE SUM OF ANOTHER SET OF SECTIONS. HOWEVER, THIS CAN BE DONE INDIRECTLY BY FIRST DEFINING A DUMMY MT NUMBER (ANY MT NUMBER NOT NORMALLY USED IN ENDF) TO BE A SUM OF SECTIONS AND A SECOND DUMMY MT NUMBER TO BE A SECOND SUM OF SECTIONS. YOU CAN THEN DEFINE RATIO OR PRODUCT YOU REQUIRE TO BE THE RATIO OF THESE	FIXUP FIXUP FIXUP FIXUP
THE ONLY SPECIAL CONVENTIONS USED BY THIS PROGRAM IN CALCULATING FIX RATIOS ARE WHEN THE DENOMINATOR OF THE RATIO IS ZERO. IN THIS FIX CASE IF THE NUMERATOR IS ALSO ZERO THE RATIO IS DEFINED TO BE ONE.FIX IN THIS CASE IF THE NUMERATOR IS NOT ZERO THE RATIO IS DEFINED FIX TO BE ZERO. FIX ENDF FORMAT FIX THIS PROGRAM MAY BE USED WITH DATA IN ANY VERSION OF THE ENDF FIX FORMAT (I.E. ENDF-1, 2, 3, 4, 5 OR 6 FORMAT). SINCE A FIX PAGING SYSTEM IS USED STORE CROSS SECTION TABLES ON SCRATCH FILES FIX THERE IS NO LIMIT TO THE SIZE OF TABLES (E.G. THE TOTAL CROSS FIX SECTION MAY BE REPRESENTED BY 200,000 TABULATED POINTS). FIX FIX WARNING FIX	 FIRST DEFINE (MT=27) = (MT=27) + (SUM OF MT=102 THROUGH 116) NEXT DEFINE (MT=333) = (MT=452)*(MT=18) LAST DEFINE (MT=255) = (MT=333)/(MT=27) DO NOT FORGET TO TURN ON THE CREATE SECTION OPTION (ON THE FIRST INPUT LINE) AND INPUT THE FIRST TWO LINES OF SECTION MT=255 - 	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
ENDF FORMAT FIX ======= FIX THIS PROGRAM MAY BE USED WITH DATA IN ANY VERSION OF THE ENDF FIX FORMAT (I.E. ENDF-1, 2, 3, 4, 5 OR 6 FORMAT). SINCE A FIX PAGING SYSTEM IS USED STORE CROSS SECTION TABLES ON SCRATCH FILES FIX THERE IS NO LIMIT TO THE SIZE OF TABLES (E.G. THE TOTAL CROSS FIX SECTION MAY BE REPRESENTED BY 200,000 TABULATED POINTS). FIX WARNING FIX ====== FIX	RATIOS ARE WHEN THE DENOMINATOR OF THE RATIO IS ZERO. IN THIS CASE IF THE NUMERATOR IS ALSO ZERO THE RATIO IS DEFINED TO BE ONE IN THIS CASE IF THE NUMERATOR IS NOT ZERO THE RATIO IS DEFINED	FIXUP FIXUP FIXUP FIXUP
THIS PROGRAM MAY BE USED WITH DATA IN ANY VERSION OF THE ENDF FIX FORMAT (I.E. ENDF-1, 2, 3, 4, 5 OR 6 FORMAT). SINCE A FIX PAGING SYSTEM IS USED STORE CROSS SECTION TABLES ON SCRATCH FILES FIX THERE IS NO LIMIT TO THE SIZE OF TABLES (E.G. THE TOTAL CROSS FIX SECTION MAY BE REPRESENTED BY 200,000 TABULATED POINTS). FIX WARNING FIX ====== FIX		FIXUP FIXUP FIXUP
WARNING FIX ====== FIX	THIS PROGRAM MAY BE USED WITH DATA IN ANY VERSION OF THE ENDF FORMAT (I.E. ENDF-1, 2, 3, 4, 5 OR 6 FORMAT). SINCE A PAGING SYSTEM IS USED STORE CROSS SECTION TABLES ON SCRATCH FILES THERE IS NO LIMIT TO THE SIZE OF TABLES (E.G. THE TOTAL CROSS	FIXUP FIXUP
		FIXUP FIXUP
		FIXUP

	THE ORIGINAL EVALUATION (I.E. ENDF/B DATA READ) ONE SECTION	FIXUP
	OF DATA WILL BE OUTPUT, UNLESS THE SECTION HAS BEEN DELETED.	FIXUP
	THIS INCLUDES ANY SECTIONS WHICH ARE NOT PRESENT IN THE	FIXUP
	ORIGINAL EVALUATION, BUT THE USER INDICATES (BY INPUT) SHOULD	
	BE CREATED.	FIXUP
		FIXUP
	THE PROGRAM WILL NOT OUTPUT ANY SECTION RECONSTRUCTED BY	FIXUP
	SUMMATION UNLESS THE CORRESPONDING SECTION (MT NUMBER) IS	FIXUP
	PRESENT IN THE ORIGINAL EVALUATION OR USER INPUT INDICATES	FIXUP
	SHOULD BE CREATED AND OUTPUT. THIS IS (A) BECAUSE THE	FIXUP
	PROGRAM CANNOT DEFINE THE PARAMETERS TO APPEAR ON THE FIRST	FIXUP
	TWO LINES OF THE SECTION, (B) TO AVOID OUTPUTTING TOO MUCH	FIXUP
	DATA WHICH THE USER MAY NOT BE INTERESTED IN.	FIXUP
(2)	FOR ANY SECTIONS THAT DO NOT APPEAR IN THE ORIGINAL DATA THE	FIXUP
• •	USER MAY SPECIFY THAT THEY BE DEFINED BY SUMMATION. ANY SUCH	FIXUP FIXUP
	SECTION MAY BE USED BE DEFINE SUBSEQUENT SUMS, BUT THE SECTION	
	ITSELF WILL NOT BE OUTPUT (E.G. GENERALLY MT=27 AND 101 ARE	FIXUP
	NOT PRESENT IN EVALUATIONS. HOWEVER, THE BUILT-IN SUMMATION	FIXUP
	RULES OF THIS PROGRAM USES THE ENDF SUMMATION RULES TO	FIXUP
	DEFINE MT=27 AND 101, WHICH IN TURN ARE USED TO DEFINE THE	FIXUP
	NON-ELASTIC CROSS SECTION, MT=3. SECTIONS MT=27 AND 101 ARE	FIXUP
	NOT OUTPUT).	FIXUP
		FIXUP
(3)	ALL DATA IN FILE 3 AND 23 MUST BE LINEARLY INTERPOLABLE. IF	FIXUP
(0)	THE DATA IS NOT LINEARLY INTERPOLABLE THIS PROGRAM WILL	FIXUP
	TERMINATE.	FIXUP
		FIXUP
PROG	RAM OPERATION	FIXUP
		FIXUP
ALL	MAT NUMBER ON AN ENDF TAPE ARE PROCESSED. EACH MAT IS	FIXUP
	TED SEPARATELY. WITHIN EACH MAT, EACH SECTION BEFORE MF=3	FIXUP
	EAD, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT.	FIXUP
	MF=3 IS LOCATED ALL CROSS SECTIONS ARE READ, SECTIONS TO BE	FIXUP
עדעם	A DE DELEMED GEOMIONO MUITOU ADE NOM DDECEMMED AND HOED	
	TED ARE DELETED, SECTIONS WHICH ARE NOT PRESENTED AND USER	FIXUP
	TIED ARE DELETED, SECTIONS WHICH ARE NOT PRESENTED AND USER IT INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT	
INPU		
INPU ARE	T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT	FIXUP
INPU ARE SCRA	T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A	FIXUP FIXUP
INPU ARE SCRA SECT	T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD,	FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW)	T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, CIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND	FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW)	T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS	FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW)	DT INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, CHONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS D, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT.	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3	T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT.	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE	T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT.	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS	T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, CIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT.	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 THE CROS PASS	T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, CIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT.	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS PASS FILE	T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR S SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES 31, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA 25, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS PASS FILE	T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, CIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT.	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS PASS FILE PERF	TT INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, CIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES 31, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA 25, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS FORMED DURING EACH PASS ARE,	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS FILE PERF PASS	T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, CIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR S SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES 51, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA CS, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS FORMED DURING EACH PASS ARE,	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS FILE PASS ====	TINDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES S1, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA S5, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS FORMED DURING EACH PASS ARE, S1	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS FILE PERF PERF PASS ===== READ	TINDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR SS SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES S1, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA SS, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS FORMED DURING EACH PASS ARE, S1 = 0 ALL CROSS SECTIONS FROM ITAPE. DELETED ANY SECTIONS. CREATE	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS FASS FILE PERF PASS ==== READ ANY	TT INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR SS SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES 51, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA SS, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS FORMED DURING EACH PASS ARE, 51 CALL CROSS SECTIONS FROM ITAPE. DELETED ANY SECTIONS. CREATE SECTIONS. CHECK/CORRECT THEM AND WRITE THEM TO SCRATCH FILE.	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 THE CROS FILE PASS FILE PERF PASS E=== READ ANY DATA	TINDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR SS SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES 51, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA SS, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS FORMED DURING EACH PASS ARE, 51 0 ALL CROSS SECTIONS FROM ITAPE. DELETED ANY SECTIONS. CREATE SECTIONS. CHECK/CORRECT THEM AND WRITE THEM TO SCRATCH FILE. A IS READ INTO ARRAY A, TRANSFERRED TO ARRAY C (AFTER EDITING)	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 THE CROS FILE PASS FILE PERF PASS ==== READ ANY DATA AND	T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR S SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES (1, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA S, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS "ORMED DURING EACH PASS ARE, 1 =	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 THE CROS FILE PASS FILE PERF PASS ==== READ ANY DATA AND ITAF	T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR S SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES 1, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA 25, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS TORMED DURING EACH PASS ARE, 31 == 0 ALL CROSS SECTIONS FROM ITAPE. DELETED ANY SECTIONS. CREATE SECTIONS. CHECK/CORRECT THEM AND WRITE THEM TO SCRATCH FILE. A IS READ INTO ARRAY A, TRANSFERRED TO ARRAY C (AFTER EDITING) OUTPUT TO ISCRC FROM ARRAY C. 26 - UNIT ORIGINAL ENDF DATA IS READ FROM.	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS PASS FILE PERF PERF PASS ==== READ ANY DATA AND ITAF ISCR	TINDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES S1, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA S5, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS "ORMED DURING EACH PASS ARE, S1 = 0 ALL CROSS SECTIONS FROM ITAPE. DELETED ANY SECTIONS. CREATE SECTIONS. CHECK/CORRECT THEM AND WRITE THEM TO SCRATCH FILE. A IS READ INTO ARRAY A, TRANSFERED TO ARRAY C (AFTER EDITING) OUTPUT TO ISCRC FROM ARRAY C. S2 - UNIT ORIGINAL ENDF DATA IS READ FROM. SC - SCRATCH UNIT THAT EDITED DATA IS WRITTEN ON.	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS FILE PERF PERF PASS ==== READ ANY DATA AND ITAF ISCR	TINDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES S1, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA S2, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS "ORMED DURING EACH PASS ARE, S1 = 0 ALL CROSS SECTIONS FROM ITAPE. DELETED ANY SECTIONS. CREATE SECTIONS. CHECK/CORRECT THEM AND WRITE THEM TO SCRATCH FILE. A IS READ INTO ARRAY A, TRANSFERED TO ARRAY C (AFTER EDITING) OUTPUT TO ISCRC FROM ARRAY C. ME - UNIT ORIGINAL ENDF DATA IS READ FROM. AC - SCRATCH UNIT THAT EDITED DATA IS WRITTEN ON. A - ARRAY INTO WHICH ORIGINAL DATA IS READ.	FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS FILE PERF PERF PASS ==== READ ANY DATA AND ITAF ISCR	TINDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES S1, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA CS, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS FORMED DURING EACH PASS ARE,	FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS FILE PERF PERF PASS ==== READ ANY DATA AND ITAF ISCR	TINDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES S1, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA S2, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS "ORMED DURING EACH PASS ARE, S1 = 0 ALL CROSS SECTIONS FROM ITAPE. DELETED ANY SECTIONS. CREATE SECTIONS. CHECK/CORRECT THEM AND WRITE THEM TO SCRATCH FILE. A IS READ INTO ARRAY A, TRANSFERED TO ARRAY C (AFTER EDITING) OUTPUT TO ISCRC FROM ARRAY C. ME - UNIT ORIGINAL ENDF DATA IS READ FROM. AC - SCRATCH UNIT THAT EDITED DATA IS WRITTEN ON. A - ARRAY INTO WHICH ORIGINAL DATA IS READ.	FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS FILE PASS FILE PERF PASS ==== READ ANY DATA AND ITAF ISCR TABA	 TINDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR SS SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES \$1, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA \$2, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS FORMED DURING EACH PASS ARE, ALL CROSS SECTIONS FROM ITAPE. DELETED ANY SECTIONS. CREATE SECTIONS. CHECK/CORRECT THEM AND WRITE THEM TO SCRATCH FILE. A IS READ INTO ARRAY A, TRANSFERRED TO ARRAY C (AFTER EDITING) OUTPUT TO ISCRC FROM ARRAY C. PE - UNIT ORIGINAL ENDF DATA IS READ FROM. CC - SCRATCH UNIT THAT EDITED DATA IS WRITTEN ON. ARRAY INTO WHICH ORIGINAL DATA IS READ. ARRAY INTO WHICH EDITED DATA IS TRANSFERRED TO AND FROM WHICH IT IS WRITTEN TO ISCRC. 	FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS FILE PERF PERF PASS ==== READ ANY DATA AND ITAF ISCR	 TINDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, CHECKED/CORRECTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR SS SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES \$1, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA \$3, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS FORMED DURING EACH PASS ARE, ALL CROSS SECTIONS FROM ITAPE. DELETED ANY SECTIONS. CREATE SECTIONS. CHECK/CORRECT THEM AND WRITE THEM TO SCRATCH FILE. A IS READ INTO ARRAY A, TRANSFERRED TO ARRAY C (AFTER EDITING) OUTPUT TO ISCRC FROM ARRAY C. YE - UNIT ORIGINAL ENDF DATA IS READ FROM. CC - SCRATCH UNIT THAT EDITED DATA IS WRITTEN ON. ARRAY INTO WHICH ORIGINAL DATA IS READ. ARRAY INTO WHICH EDITED DATA IS TRANSFERRED TO AND FROM WHICH IT IS WRITTEN TO ISCRC. 	FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 THE CROS FILE PASS FILE PERF PASS ENE READ ANY DATA AND ITAF ISCR TABA TABC	<pre>T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, PIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT.</pre> TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES (1, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA SS, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS YORMED DURING EACH PASS ARE, ALL CROSS SECTIONS FROM ITAPE. DELETED ANY SECTIONS. CREATE SECTIONS. CHECK/CORRECT THEM AND WRITE THEM TO SCRATCH FILE. A IS READ INTO ARRAY A, TRANSFERRED TO ARRAY C (AFTER EDITING) OUTPUT TO ISCRC FROM ARRAY C. PE - UNIT ORIGINAL ENDF DATA IS READ FROM. AC - SCRATCH UNIT THAT EDITED DATA IS WRITTEN ON. A - ARRAY INTO WHICH ORIGINAL DATA IS READ. A - ARRAY INTO WHICH ORIGINAL DATA IS TRANSFERRED TO AND FROM WHICH IT IS WRITTEN TO ISCRC.	FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 THE CROS FILE PASS FILE PERF PASS ENE ANY DATA AND ITABA TABC TABA TABC FASS ENE FILE	<pre>T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS), CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT.</pre> TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR IS SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES (), PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA S, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS FORMED DURING EACH PASS ARE,	FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 THE CROS FILE PASS FILE PERF PASS ENE READ ANY DATA AND ITAP ISCR TABA TABC FASS ENE FASS	<pre>T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, CHORS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS), CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT.</pre> TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR SS SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES 1, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA S, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS "ORMED DURING EACH PASS ARE, 1 = 0 ALL CROSS SECTIONS FROM ITAPE. DELETED ANY SECTIONS. CREATE SECTIONS. CHECK/CORRECT THEM AND WRITE THEM TO SCRATCH FILE. A IS READ INTO ARRAY A, TRANSFERRED TO ARRAY C (AFTER EDITING) OUTPUT TO ISCRC FROM ARRAY C. 25 - UNIT ORIGINAL ENDF DATA IS READ FROM. 34 - ARRAY INTO WHICH ORIGINAL DATA IS WRITTEN ON. 35 - ARRAY INTO WHICH ORIGINAL DATA IS READ. 36 - ARRAY INTO WHICH EDITED DATA IS TRANSFERRED TO AND FROM WHICH IT IS WRITTEN TO ISCRC. 37 37 37 37 37 37 37 37 37 3	FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS PASS FILE PERF PERF PASS ==== READ ANY DATA AND ITAF ISCR TABA TABC PASS ==== IF A PASS UNIF	<pre>PT INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR S SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES 51, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA SS, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS FORMED DURING EACH PASS ARE, 1 = 0 0 ALL CROSS SECTIONS FROM ITAPE. DELETED ANY SECTIONS. CREATE SECTIONS. CHECK/CORRECT THEM AND WRITE THEM TO SCRATCH FILE. A IS READ INTO ARRAY A, TRANSFERRED TO ARRAY C (AFTER EDITING) OUTPUT TO ISCRC FROM ARRAY C. 25 - UNIT ORIGINAL ENDF DATA IS READ FROM. 30 - ARRAY INTO WHICH ORIGINAL DATA IS READ. 31 - ARRAY INTO WHICH ORIGINAL DATA IS READ. 32 - ARRAY INTO WHICH DITED DATA IS TRANSFERRED TO AND FROM WHICH IT IS WRITTEN TO ISCRC. 32 - ARRAY INTO WHICH DITED DATA IS READ FROM. 34 - ARRAY INTO WHICH EDITED DATA IS TRANSFERRED TO AND FROM WHICH IT IS WRITTEN TO ISCRC. 34 ONIFORM ENERGY GRID IS REQUESTED IT IS CREATED DURING THIS 35 FIRST ALL OF THE CROSS SECTIONS FROM PASS1 ARE READ AND A FORM ENERGY GRID IS CREATED = ALL ENERGIES THAT ARE INCLUDED</pre>	FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS FILE PERF PASS FILE PERF PASS ==== READ ANY DATA AND ITAF ISCR TABA TABO PASS ==== IF A PASS UNIF IN A	<pre>PT INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, TIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR S SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES 51, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA SS, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS FORMED DURING EACH PASS ARE,</pre>	FIXUP FIXUP
INPU ARE SCRA SECT NEW) READ MF=3 ==== THE CROS FILE PASS FILE PERF PASS ==== READ ANY DATA AND ITAF ISCR IF A PASS UNIF IN A ISCR	<pre>T INDICATES SHOULD BE CREATED ARE CREATE, SECTIONS TO BE KEPT CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND WRITTEN TO A ATCH FILE. NEXT, IF THE USER SPECIFIES THAT THEY SHOULD, PIONS ARE RECONSTRUCTED. FINALLY ALL CROSS SECTIONS (OLD AND ARE OUTPUT. WITHIN THE SAME MAT, EACH SECTION AFTER MF=3 IS 0, CHECKED/CORRECTED (BASED ON INPUT OPTIONS) AND OUTPUT. TREATMENT OF THE CROSS SECTIONS REQUIRES UP TO 4 PASSES FOR SS SECTIONS. IN THE PROGRAM THEY CORRESPOND TO SUBROUTINES (1, PASS2, PASS3 AND PASS4. THE ORIGINAL AND FINAL ENDF DATA SS, 5 SCRATCH FILES AND 3 IN CORE ARRAYS ARE USED. OPERATIONS FORMED DURING EACH PASS ARE, 1 = 0 ALL CROSS SECTIONS FROM ITAPE. DELETED ANY SECTIONS. CREATE SECTIONS. CHECK/CORRECT THEM AND WRITE THEM TO SCRATCH FILE. A IS READ INTO ARRAY A, TRANSFERRED TO ARRAY C (AFTER EDITING) OUTPUT TO ISCRC FROM ARRAY C. 2E - UNIT ORIGINAL ENDF DATA IS READ FROM. 3C - SCRATCH UNIT THAT EDITED DATA IS WRITTEN ON. A - ARRAY INTO WHICH ORIGINAL DATA IS READ. 4. ARRAY INTO WHICH ORIGINAL DATA IS READ. 5. ARRAY INTO WHICH EDITED DATA IS TRANSFERRED TO AND FROM WHICH IT IS WRITTEN TO ISCRC. 52 53 54 55. FIRST ALL OF THE CROSS SECTIONS FROM PASSI ARE READ AND A PORM ENERGY GRID IS CREATED IT IS CREATED DURING THIS 5. FIRST ALL OF THE CROSS SECTIONS FROM PASSI ARE READ AND A PORM ENERGY GRID IS CREATED = ALL ENERGIES THAT ARE INCLUDED AT LEAST ONE SECTION (MT) OF CROSS SECTIONS.</pre>	FIXUP FIXUP

	FIXUP
	FIXUP
	FIXUP
	FIXUP
	FIXUP
,	FIXUP
	FIXUP
	FIXUP
AGAIN BE ON ISCRC (EXACTLY AS AT THE END OF PASS1), WITH UPDATED	FIXUP
POINT COUNTS.	FIXUP
ISCRA - SCRATCH UNIT THAT UNIFORM ENERGY GRID DATA IS WRITTEN ON.	FIXUP
ISCRB - SCRATCH UNIT CONTAINING UNIFORM ENERGY GRID.	FIXUP
ISCRC - SCRATCH UNIT THAT EDITED DATA IS READ FROM.	FIXUP
TABA – ARRAY CONTAINING UNIFORM ENERGY GRID DATA.	FIXUP
TABB - ARRAY CONTAINING UNIFORM ENERGY GRID.	FIXUP
TABC - ARRAY CONTAINING EDITED DATA.	FIXUP
	FIXUP
PASS3	FIXUP
	FIXUP
SUMMATION CROSS SECTIONS ARE DEFINED BY READING DATA FROM ISCRC	FIXUP
AND MERGING THEM ONTO ISCRA. THE FIRST SECTION THAT CONTRIBUTES	FIXUP
	FIXUP
CONTRIBUTE TO THE SUM THE DATA IN A IS TRANSFERRED TO B, A	FIXUP
	FIXUP
A. THE CYLE OF ADDED C AND B TO A, FOLLOWED BY MOVING A TO B	FIXUP
	FIXUP
THE SUM IS THEN COPIED FROM A TO D. IF NEWLY CONSTRUCTED SECTION	FIXUP
IS REQUIRED FOR ANY LATER SUMMUATIONS IT IS ALSO COPIED TO E.	FIXUP
	FIXUP
	FIXUP
-	FIXUP
•	FIXUP
	FIXUP
SECTIONS WILL BE ON E AND THE ORIGINAL SECTIONS ON C.	FIXUP
ISCRC - SCRATCH FILE FROM WHICH ORIGINAL DATA IS READ.	FIXUP
ISCRA - SCRATCH FILE ONTO WHICH SUM FOR ONE SECTION IS WRITTEN.	FIXUP
	FIXUP
WRITTEN.	FIXUP
ISCRE - SCRATCH FILE ONTO WHICH ALL SUM CROSS SECTIONS WHICH	FIXUP
ARE REQUIRED FOR LATER SUMS ARE WRITTEN.	FIXUP
ISCRB - UTILITY SCRATCH FILE USED TO CREATE SUM CROSS SECTIONS.	FIXUP
TABA - ARRAY INTO WHICH SUMS ARE WRITTEN.	FIXUP
TABB - ARRAY INTO WHICH PARTIAL SUMS ARE WRITTEN.	FIXUP
TABC - ARRAY INTO WHICH ORIGINAL DATA IS READ.	FIXUP
	FIXUP
PASS4	FIXUP
=====	FIXUP
CROSS SECTIONS ARE READ FROM ISCRC (ORIGINAL) AND ISCRD (NEW)	FIXUP
AND ARE WRITTEN IN THE ENDF FORMAT ON OTAPE. THE BEGINNING OF	FIXUP
EACH SECTION OF ORIGINAL DATA IS READ FROM ISCRC (TO DEFINE	FIXUP
SECTION HEADER INFORMATION). IF THIS MT HAS NOT BEEN RECOSTRUCTED	FIXUP
ON ISCRD THE ORIGINAL SECTION IS OUTPUT. IF THE SECTION HAS BEEN	FIXUP
RECONSTRUCTED THE ORIGINAL SECTION IS SKIPPED AND THE NEW SECTION	FIXUP
IS OUTPUT.	FIXUP
OTAPE - OUTPUT DATA IN THE ENDF FORMAT.	FIXUP
ISCRC - SCRATCH FILE FROM WHICH ORIGINAL DATA IS READ.	FIXUP
ISCRD - SCRATCH FILE FROM WHICH NEW DATA IS READ.	FIXUP
TABC - ARRAY INTO WHICH CROSS SECTIONS ARE READ FROM SCRATCH	FIXUP
AND WRITTEN TO OTAPE	FIXUP
	FIXUP
I/O FILE DEFINITIONS	FIXUP
	FIXUP
UNIT DESCRIPTION	FIXUP
	FIXUP
2 INPUT PARAMETERS.	FIXUP
3 OUTPUT REPORT.	FIXUP
	FIXUP
	FIXUP
	FIXUP
	FIXUP
15 SCRATCH FILE	FIXUP

OPTIONAL STANDARD FILE NAMES (SEE SUBROUTINE FILIOL AND FILIO2) TILE NAME FORMAT 2 FIXUP.INP BCD 3 FIXUP.LST BCD 10 ENDFB.IN BCD 11 ENDFB.OT BCD 2-17 (SCRATCH) BINARY INPUT LINES TIME COLUMNS FORMAT DESCRIPTION TIME COLUMNS OF THE TESTS/CORRECTION DESCRIPTED ABOVE. TESTS/CORRECTION ADARE TREATED AS FOLLOWS, = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - READ RULES FROM INPUT = 2 - USE BUILTIN RULES 2 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 3 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFE.OUT) 4-M 1-5 FREE CHARACTER (S.D.T.R.*) FOLLOWED BY BLANK OF FORM M NUMBER T THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELTEE - T = NO THERSHOLD ENERGY CORRECTIONS A = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER M RANGES WHICH A - (MINUS SIGN). EACH MT NUMBER MERSHOL DESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEDED BY A - (MINUS SIGN). EACH MT NUMBER TO BE DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 	16 17	SCRATCH SCRATCH			
UNIT FILE NAME FORMAT 	OPTIO	NAL STANE	ARD FIL	E NAMES (SEE SUBROUTINE FILIO1 AND FILIO)	2)
<pre>2 FIXUP.INP BCD 3 FIXUP.INP BCD 10 ENDFB.IN BCD 11 ENDFB.OUT BCD 2-17 (SCRATCH) BINARY INFUT LINES ====================================</pre>	=====				•
2 FIXUP.INP BCD 3 FIXUP.INP BCD 10 ENDFB.IN BCD 11 ENDFB.OT BCD 2-17 (SCRATCH) BINARY INPUT LINES 					
 3 FIXUP.LST BCD 10 ENDFE.NN BCD 2-17 (SCRATCH) BINARY INPUT LINES INPUT LINES INPUT LINES INPUT SCOLUMNS FORMAT DESCRIPTION EACH COLUMN OF THE INPUT LINE CONTROLS ONE OF THE TESTS/CORRECTIONS DESCRIPED ABOVE. EACH COLUMN OF THE INPUT LINE CONTROLS ONE OF THE TESTS/CORRECTION 1-14 (NOT ALL INFLEMENTED YET) CORRESPOND TO COLUMNS 1-14 OF THIS INPUT LINE AND ARE TREATED AS FOLLOWS, = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES (COLUMN 2), DELETION (COLUMN 4), OR SUMMATION (COLUMN 5) THE INPUT OPTION MAY BE, = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES 2 1-72 A72 ENDF INUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFE.OUT) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OI FORM MT NUMBER - T HE ALLOWED CHARACTERS ARE, - S OR BLANK S SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO -* = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH WILL BE USED TO DEFINED MT ACONSTNUCUES STAING OF DIGITS THE NOT THE FIRST DIGIT STRING OF DIGITS THE FIRST DIGITS THIN ONE FACH PAIR MAY BE PRECEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERFRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) -COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBERS TO BE USED TO DEFINED BY SUMMATION COLUMNS 6-72 EUF TO 10 MT RANGE (PAIRS OI MT NUMBERS) TO BE USED TO D					
10 ENDEP.IN BCD 11 ENDEP.OUT BCD 2-17 (SCRATCH) BINARY INPUT LINES 					
11 ENDEB.OUT BCD 2-17 (SCRATCH) BINARY INFUT LINES 					
2-17 (SCRATCH) BINARY INPUT LINES ILINE COLUMNS FORMAT DESCRIPTION 1 1-14 1411 INPUT OPTIONS AS DESCRIBED ABOVE. EACH COLUMN OF THE INPUT LINE CONTROLS ONE OF THE TESTS/CORRECTION 1-14 (NOT ALL IMPLEMENTED VET) CORRESPOND TO COLUMNS 1-14 OF THIS INPUT LINE AND ARE TREATED AS FOLLOWS, = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. = 1 - READ RULES FROM INPUT = 2 - USE BULIT-IN RULES 2 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFE.UT) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OF FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, = S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE CHARACTER (S,D,CT,R,*) FOLLOWED BY BLANK OF FORM MT NUMBER AND UPPER MT RANGES WHICH WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH WILL BE USED TO DEFINE THE RANGES WHICH WILL BE USED TO DEFINE THE RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STENING OF DIGITS, POSSIBILITY PRECEDEDED DY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) - COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBERS) TO BE USED TO DEFINED BY SUMMATION COLUMNS 6-72 UP TO 10 MT RANGE (PAIR MAY BE PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) - COLUMNS 6-72 UP TO 10 MT RANGE (PAIRS ON MT NUMBERS) TO BE USED TO DEFINED BY SUMMATION COLUMNS 6-72 UP TO 10 MT RANGE (PAIRS ON MT NUMBERS) TO BE USED TO DEFINED BY SUMMATION COLUMNS 6-72 UP TO 10 MT RANGE (PAIRS ON MT NUMBERS) TO BE USED TO DEFINED BY SUMMATION COLUMNS 6-72 UP TO 10 MT RANGE (PAIRS ON MT NUMBERS) TO BE USED TO DEFINED BY SUMMATION COLUMNS 6-72 UP TO 10 MT RANGE (PAIRS ON MT NUMBERS) TO BE USED TO DEFINED BY SUMMATION COLUMNS 6-72 UP TO 10 MT RANGE (PAIRS IS SUBTRACTED - AT LEAST ONE RANGE MUS					
INPUT LINES LINE COLUMNS FORMAT DESCRIPTION 1 1-14 1411 INPUT OPTIONS AS DESCRIBED ABOVE. EACH COLUMN OF THE INPUT LINE CONTROLS ONE OF THE TESTS/CORRECTIONS DESCRIBED ABOVE. TESTS/CORRECTION 1-14 (NOT ALL IMPLEMENTED YET) CORRESPOND TO COLUMNS 1-14 OF THIS INPUT LINE AND ARE TREATED AS FOLLOWS, = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES 2 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFR.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFR.OT) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OF FOR MT EXCLUSION FOR TRANSMENCES) - D = DELETE - T HE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFREENCES) - D = DELETE - T NO THRESHOLD TESTS. 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH FORM WILL BE USED FOR THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED EN A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT: THE FIRST DIGIT STRING OF EACH MA NUMBER A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOTA DIGT) DELIMITED MT NUMBERS TO BE DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED EN A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOTA DIGT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT: THE FIRST DIGIT STRING OF EACH DAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERCES) - COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBERS) TO BE USED TO DEFINED BY SUMMATION COLUMNS 6-72 = UF TO 10 MT RANGE (PAIRS ON MT NUMBERS) TO BE USED TO DEFINED BY SUMMATION COLUMNS 6-72 = UF TO 10 DETINES IS SUMMATION (DE DIFFINE THE RANGE MUST BE					
<pre>LINE COLUMNS FORMAT DESCRIPTION LINE COLUMNS FORMAT DESCRIPTION 1 1-14 1411 INFUT OFTIONS AS DESCRIBED ABOVE. EACH COLUMN OF THE INDUT LINE CONTROLS ONE OF THE TESTS/CORRECTION DESCRIBED ABOVE. TESTS/CORRECTION LINE AND ARE TREATED AS FOLLOWS. = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. FOR MT EXCLUSION FROM THRESHOLD TESTS (COLUMN 2), DELETION (COLUMN 4), OR SUMMATION (COLUMN 5) THE INPUT OPTION MAY BE, = 1 - READ RULES FROM INPUT = 2 - USE BULIT-IN RULES 2 1-72 A72 ENDF UNPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.OUT) 4-M 1-5 FRE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK O FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO TRRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE UNERFOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STITUM OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES)</pre>	.2-17	(SCRATCH	1) BIN	AKY	
<pre>LINE COLUMNS FORMAT DESCRIPTION LINE COLUMNS FORMAT DESCRIPTION 1 1-14 1411 INFUT OFTIONS AS DESCRIBED ABOVE. EACH COLUMN OF THE INDUT LINE CONTROLS ONE OF THE TESTS/CORRECTION DESCRIBED ABOVE. TESTS/CORRECTION LINE AND ARE TREATED AS FOLLOWS. = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. FOR MT EXCLUSION FROM THRESHOLD TESTS (COLUMN 2), DELETION (COLUMN 4), OR SUMMATION (COLUMN 5) THE INPUT OPTION MAY BE, = 1 - READ RULES FROM INPUT = 2 - USE BULIT-IN RULES 2 1-72 A72 ENDF UNPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.OUT) 4-M 1-5 FRE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK O FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO TRRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE UNERFOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STITUM OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES)</pre>	TATET	TTNEC			
LINE COLUMNS FORMAT DESCRIPTION 1 1-14 1411 INPUT OPTIONS AS DESCRIPED ABOVE. EACH COLUMN OF THE INPUT LINE CONTROLS ONE OF THE TESTS/CORRECTIONS DESCRIPED ABOVE. TESTS/CORRECTION 1-14 (NOT ALL IMPLEMENTED YET) CORRESPOND TO COLUMNS 1-14 OF THIS INPUT LINE AND ARE TREATED AS FOLLOWS. = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. MAY BE. = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES 2 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.OUT) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OF FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBLLITY PRECEDED DE A - (MINUS SIGN). EACH MT NUMER MUST BE DANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT: THE FIRST DIGIT STRING OF EACH PAIR MAY BE PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 					
 1 1-14 1411 INPUT OPTIONS AS DESCRIBED ABOVE. EACH COLUMN OF THE INPUT LINE CONTROLS ONE OF THE TESTS/CORRECTION DESCRIBED ABOVE. TESTS/CORRECTION 1-14 (NOT ALL IMPLEMENTED YET) CORRESPOND TO COLUMNS 1-14 OF THIS INPUT LINE AND ARE TREATED AS FOLLOWS. = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION (COLUMN 4), OR SUMMATION (COLUMN 5) THE INPUT OPTION MAY BE, = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 1 -5 FREE CRARACTER (S,D,T,R,*) FOLLOWED BY BLANK OF FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, S OR BLANK = SUM (OR DIFFERENCES) D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS R = RATIO - * ERODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH WILL BE USED TO DEFINE MT RANGES WHICH CROSS SECTION OR TO DEFINE MT RANGES WHICH AND UPPER MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMDER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITEI COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT; THE FIRST DIGIT STRING OF EACH PAR MAY BI PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 EUP TO 10 MT RANGE (PAIRS OF MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 EUP TO 10 MT RANGE (PAIRS OF MT NUMBERS TO BE DEFINED BY SUMMATION 			тормат	DESCRIPTION	
1 1-14 1411 INPUT OFTIONS AS DESCRIBED ABOVE. EACH COLUMN OF THE INPUT LINE CONTROLS ONE OF THE TESTS/CORRECTIONS DESCRIBED ABOVE. TESTS/CORRECTION 1-14 (NOT ALL IMPLEMENTED YET) CORRESPOND TO COLUMNS 1-14 OF THIS INPUT LINE AND ARE TREATED AS FOLLOWS, = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. FOR MT EXCLUSION FROM THESHOLD TESTS (COLUMN 2), DELETION (COLUMN 4), OR SUMMATION (COLUMN 5) THE INPUT OPTION MAY BE, = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES 2 1-72 A72 ENNF INPUT DATA FILENAME (STANDARD OPTION = ENNFB.IN) 3 1-72 A72 ENNF OUTPUT DATA FILENAME (STANDARD OPTION = ENNFB.OUT) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OF FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UF TO 10 LOWER AND UPPER MT RANGES WHICH WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED DE A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITE COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT: THE FIRST DIGITS STRING OF EACH PAIR MAY BE PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 					
EACH COLUMN OF THE INDUT LINE CONTROLS ONE OF THE TESTS/CORRECTION 1-14 (NOT ALL IMPLEMENTED YET) CORRESPOND TO COLUMNS 1-14 OF THIS INDUT LINE AND ARE TREATED AS FOLLOWS, = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. FOR MT EXCLUSION FROM THRESHOLD TESTS (COLUMN 2), DELETION (COLUMN 4), OR SUMMATION (COLUMN 5) THE INPUT OPTION MAY BE, = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES 2 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.UT) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OF FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UF TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECORSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM OF DIGITS, POSSIBLITY PRECEEDED EN A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITE! COLUMNS 6-72 MAY CONTAIN STRING OF DIGIT: THE FIRST DIGIT STRING OF EACH PAIR MAY BI PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 					
ONE OF THE TESTS/CORRECTIONS DESCRIBED ABOVE. TESTS/CORRECTION 1-14 (NOT ALL IMPLEMENTED YET) CORRESPOND TO COLUMNS 1-14 OF THIS INPUT LINE AND ARE TREATED AS FOLLOWS, = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. FOR MT EXCLUSION FROM THRESHOLD TESTS (COLUMN 2), DELETION (COLUMN 4), OR SUMMATION (COLUMN 5) THE INPUT OFTION MAY BE, = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES 2 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OFTION = ENDFE.IN) 3 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 3 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFE.OT) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OF FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED DE A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITE! COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT: THE FIRST DIGIT STRING OF EACH FAIR MAY BE PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 	-	1 14	1411		
ABOVE. TESTS/CORRECTION 1-14 (NOT ALL IMPLEMENTED YET) CORRESPOND TO COLUMNS 1-14 OF THIS INPUT LINE AND ARE TREATED AS FOLLOWS, = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. FOR MT EXCLUSION FROM THRESHOLD TESTS (COLUMN 2), DELETION (COLUMN 4), OR SUMMATION (COLUMN 5) THE INPUT OPTION MAY BE, = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES 2 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OI FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH WILL BE USED TO DEFINE MT RANGES WHICH AC (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITER COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS; THE FIRST DIGIT STRING OF EACH PAIR MAY B PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 					
<pre>IMPLEMENTED YET) CORRESPOND TO COLUMNS 1-14 OF THIS INPUT LINE AND ARE TREATED AS FOLLOWS, = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. FOR MT EXCLUSION FROM THRESHOLD TESTS (COLUMN 2), DELETION (COLUMN 4), OR SUMMATION (COLUMN 5) THE INPUT OPTION MAY BE, = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES 2 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 3 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OF FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = FRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT; THE FIRST DIGIT STRING OF EACH PAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) </pre>				•	
 1-14 OF THIS INPUT LINE AND ARE TREATED AS FOLLOWS, = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. FOR MT EXCLUSION FROM THRESHOLD TESTS (COLUMN 2), DELETION (COLUMN 4), OR SUMMATION (COLUMN 5) THE INPUT OPTION MAY BE, = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES 2 1-72 A72 ENDF ONTOTAT FILENAME (STANDARD OPTION = ENDFB.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN) 3 1-74 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN) 3 1-75 FREE CRARACTER (S,D,T,R,*) FOLLOWED BY BLANK OF FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITEE COLUMNS 6-72 MAY CONTAIN STRING OF DIGIT; THE FIRST DIGIT STRING OF EACH PAIR MAY BI PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 					
AS FOLLOWS, = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. FOR MT EXCLUSION FROM THRESHOLD TESTS (COLUMN 2), DELETION (COLUMN 4), OR SUMMATION (COLUMN 5) THE INPUT OPTION MAY BE, = 1 - READ RULES FOM INPUT = 2 - USE BUILT-IN RULES 2 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFE.OUT) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OF FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UF TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED B A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT: THE FIRST DIGIT STRING OF EACH PAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 					
 = 0 - DO NOT PERFORM TEST/CORRECTION. = 1 - PERFORM TEST/CORRECTION. FOR MT EXCLUSION FROM THRESHOLD TESTS (COLUMN 2), DELETION (COLUMN 4), OR SUMMATION (COLUMN 5) THE INPUT OPTION MAY BE, = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES 2 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.OUT) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.OUT) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OI FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBLITY PRECEEDED E A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITEI COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS THE FIRST DIGIT STRING OF EACH PAIR MAY BI PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 					
 = 1 - PERFORM TEST/CORRECTION. FOR MT EXCLUSION FROM THRESHOLD TESTS (COLUMN 2), DELETION (COLUMN 4), OR SUMMATION (COLUMN 5) THE INPUT OPTION MAY BE, = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES 2 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.OUT) 4-M 1-5 FREE CHARACTER (S,D.T.R.*) FOLLOWED BY BLANK OF FORM MT NUMBER THE ALLOWED CHARACTERS ARE, S OR BLANK = SUM (OR DIFFERENCES) D = DELETE T = NO THRESHOLD ENERGY CORRECTIONS R = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITER COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT: THE FIRST DIGIT STRING OF EACH PAIR MAY BI PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 				,	
FOR MT EXCLUSION FROM THRESHOLD TESTS (COLUMN 2), DELETION (COLUMN 4), OR SUMMATION (COLUMN 5) THE INPUT OPTION MAY BE, = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES 2 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.OUT) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OF FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED EN A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT: THE FIRST DIGIT STRING OF EACH PAIR MAY EN PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFRENCES) 					
SUMMATION (COLUMN 5) THE INPUT OPTION MAY BE, = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES 2 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFE.OUT) 4-M 1-5 FREE CHARACTER (S.D.T.R.*) FOLLOWED BY BLANK OF FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MIST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT: THE FIRST DIGIT STRING OF EACH PAIR MAY BU PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 				•	
MAY BE, = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES 2 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFE.OUT) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OF FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITE! COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT: THE FIRST DIGIT STRING OF EACH PAIR MAY BI PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 				(COLUMN 2), DELETION (COLUMN 4), OR	
MAY BE, = 1 - READ RULES FROM INPUT = 2 - USE BUILT-IN RULES 2 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFE.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFE.OUT) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OF FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITE! COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT: THE FIRST DIGIT STRING OF EACH PAIR MAY BI PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 				SUMMATION (COLUMN 5) THE INPUT OPTION	
 = 2 - USE BUILT-IN RULES 2 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.UT) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OF FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT - THE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMMER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT: THE FIRST DIGIT STRING OF EACH PAIR MAY BI PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 					
2 1-72 A72 ENDF INPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.OUT) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OFFORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH FORM OF DIGITS, POSSIBILITY PRECEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS: THE FIRST DIGIT STRING OF EACH PAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 				= 1 - READ RULES FROM INPUT	
(STANDARD OPTION = ENDFB.IN) 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFB.OUT) 4-M 1-5 FREE CHARACTER (S.D.T.R.*) FOLLOWED BY BLANK OF FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITER COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT: THE FIRST DIGIT STRING OF EACH PAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 				= 2 - USE BUILT-IN RULES	
 3 1-72 A72 ENDF OUTPUT DATA FILENAME (STANDARD OPTION = ENDFE.OUT) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OF FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT; THE FIRST DIGIT STRING OF EACH PAIR MAY BI PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 	2	1-72	A72	ENDF INPUT DATA FILENAME	
 (STANDARD OPTION = ENDFB.OUT) 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK ON FORM MT NUMBER THE ALLOWED CHARACTERS ARE, S OR BLANK = SUM (OR DIFFERENCES) D = DELETE T = NO THRESHOLD ENERGY CORRECTIONS R = RATIO * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH FORM WILL BE USED TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS THE FIRST DIGIT STRING OF EACH PAIR MAY BU PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 = UP TO 10 MT RANGE (PAIRS OF MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE 				(STANDARD OPTION = ENDFB.IN)	
 4-M 1-5 FREE CHARACTER (S,D,T,R,*) FOLLOWED BY BLANK OF FORM MT NUMBER THE ALLOWED CHARACTERS ARE, S OR BLANK = SUM (OR DIFFERENCES) D = DELETE T = NO THRESHOLD ENERGY CORRECTIONS R = RATIO * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS THE FIRST DIGIT STRING OF EACH PAIR MAY BI PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES)	3	1-72	A72	ENDF OUTPUT DATA FILENAME	
FORM MT NUMBER - THE ALLOWED CHARACTERS ARE, - S OR BLANK = SUM (OR DIFFERENCES) - D = DELETE - T = NO THRESHOLD ENERGY CORRECTIONS - R = RATIO - * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITER COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT: THE FIRST DIGIT STRING OF EACH PAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 				(STANDARD OPTION = ENDFB.OUT)	
 THE ALLOWED CHARACTERS ARE, S OR BLANK = SUM (OR DIFFERENCES) D = DELETE T = NO THRESHOLD ENERGY CORRECTIONS R = RATIO * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED B: A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS: THE FIRST DIGIT STRING OF EACH PAIR MAY BE PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 = UP TO 10 MT RANGE (PAIRS OI MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE	4-M	1-5	FREE	CHARACTER (S,D,T,R,*) FOLLOWED BY BLANN	K OF
 S OR BLANK = SUM (OR DIFFERENCES) D = DELETE T = NO THRESHOLD ENERGY CORRECTIONS R = RATIO * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS THE FIRST DIGIT STRING OF EACH PAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 = UP TO 10 MT RANGE (PAIRS OI MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE			FORM	MT NUMBER	
 D = DELETE T = NO THRESHOLD ENERGY CORRECTIONS R = RATIO * = PRODUCT UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS THE FIRST DIGIT STRING OF EACH PAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 = UP TO 10 MT RANGE (PAIRS OF MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE 				- THE ALLOWED CHARACTERS ARE,	
 T = NO THRESHOLD ENERGY CORRECTIONS R = RATIO R = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITE! COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS: THE FIRST DIGIT STRING OF EACH PAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 = UP TO 10 MT RANGE (PAIRS OI MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE 				- S OR BLANK = SUM (OR DIFFERENCES)	
 R = RATIO * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITE! COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT! THE FIRST DIGIT STRING OF EACH PAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 = UP TO 10 MT RANGE (PAIRS OF MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE 				- D = DELETE	
 * = PRODUCT 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT? THE FIRST DIGIT STRING OF EACH PAIR MAY BI PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 = UP TO 10 MT RANGE (PAIRS OF MT NUMBER TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE 					
 6-72 FREE UP TO 10 LOWER AND UPPER MT RANGES WHICH WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS THE FIRST DIGIT STRING OF EACH PAIR MAY BE PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 = UP TO 10 MT RANGE (PAIRS OF MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE 					
<pre>FORM WILL BE USED TO DEFINE THE RECONSTRUCTED CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS THE FIRST DIGIT STRING OF EACH PAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) </pre>					
CROSS SECTION OR TO DEFINE MT RANGES WHICH ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS THE FIRST DIGIT STRING OF EACH PAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 		6-72			
ARE EXCLUDED FROM THRESHOLD TESTS. EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS THE FIRST DIGIT STRING OF EACH PAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 			FORM		
EACH MT NUMBER IS DEFINED BY A CONTINUOUS STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS THE FIRST DIGIT STRING OF EACH PAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 					HICH
STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS THE FIRST DIGIT STRING OF EACH PAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 				ARE EXCLUDED FROM THRESHOLD TESTS.	
STRING OF DIGITS, POSSIBILITY PRECEEDED BY A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS THE FIRST DIGIT STRING OF EACH PAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 					
A - (MINUS SIGN). EACH MT NUMBER MUST BE BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGIT THE FIRST DIGIT STRING OF EACH PAIR MAY BU PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 					
BLANK OR OTHERWISE (NOT A DIGIT) DELIMITED COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS THE FIRST DIGIT STRING OF EACH PAIR MAY BU PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 					
COLUMNS 6-72 MAY CONTAIN STRINGS OF DIGITS THE FIRST DIGIT STRING OF EACH PAIR MAY BY PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 					
THE FIRST DIGIT STRING OF EACH PAIR MAY BI PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 				DLANK OK OTREKWISE (NOT A DIGIT) DELIM.	r r El
THE FIRST DIGIT STRING OF EACH PAIR MAY BI PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 				COLIMNS 6-72 MAY CONTAIN CONTAINS OF DI	2704
PRECEEDED BY A - (MINUS SIGN). EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) 					
EACH LINE WILL BE INTERPRETED AS FOLLOWS, *SUMMATION (OR DIFFERENCES) COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 = UP TO 10 MT RANGE (PAIRS OL MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE					. 01
*SUMMATION (OR DIFFERENCES) COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 = UP TO 10 MT RANGE (PAIRS OF MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE				INCOLOGICA (MINOS SIGN).	
*SUMMATION (OR DIFFERENCES) COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 = UP TO 10 MT RANGE (PAIRS OF MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE				FACH LINE WILL BE INTEDDDETED AC ENTIN	ad S
COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 = UP TO 10 MT RANGE (PAIRS OF MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE				LAGA HIME WITH DE INIEKFREIED AS FOLLO	но,
COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 = UP TO 10 MT RANGE (PAIRS OF MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE				*SUMMATION (OR DIFFERENCES)	
COLUMNS 1-5 = S OR BLANK FOLLOWED BY THE MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 = UP TO 10 MT RANGE (PAIRS ON MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE					
MT NUMBER TO BE DEFINED BY SUMMATION COLUMNS 6-72 = UP TO 10 MT RANGE (PAIRS OF MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE					HE
COLUMNS 6-72 = UP TO 10 MT RANGE (PAIRS O MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE					
MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE					
MT NUMBERS) TO BE USED TO DEFINED THE SUM IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE				COLUMNS 6-72 = UP TO 10 MT RANGE (PATR	ຣ ດາ
IF THE FIRST MT NUMBER OF A PAIR IS NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE					
NEGATIVE THE RANGE OF MT NUMBERS IS SUBTRACTED - AT LEAST ONE RANGE MUST BE					
SUBTRACTED - AT LEAST ONE RANGE MUST BE					
				SUBTRACIED - AT LEAST ONE RANGE MUST B	-

			FIXUP
		*DELETIONS	FIXUP
			FIXUP
		(PAIRS OF MT NUMBERS), EACH RANGE DEFINING A RANGE OF MT NUMBERS TO BE DELETED - AT	FIXUP
			FIXUP
			FIXUP
		*EXCLUSION FROM THRESHOLD TESTS	FIXUP
			FIXUP
		COLUMNS $1=5 = T$ FOLLOWED BY BLANKS	FIXUP
			FIXUP
		COLUMNS 6-72 CONTAIN UP TO 10 MT RANGE	FIXUP
		(PAIRS OF MT NUMBERS), EACH RANGE DEFINING	
			FIXUP
		ENERGY WILL NOT BE CHECKED - AT LEAST ONE	
		RANGE MUST BE SPECIFIED.	FIXUP
		*RATIO	FIXUP FIXUP
			FIXUP
		COLUMNS 1-5 = R FOLLOWED BY THE MT NUMBER	
		TO BE DEFINED BY A RATIO	FIXUP
		· · · · · · · · · · · · · · · · · · ·	FIXUP
		COLUMNS 6-72 CONTAINS 2 MT NUMBERS TO BE	FIXUP
		USED TO DEFINE THE RATIO.	FIXUP
			FIXUP
		*PRODUCT	FIXUP
			FIXUP
		COLUMNS 1-5 = * FOLLOWED BY THE MT NUMBER	
		TO BE DEFINED BY A PRODUCT	FIXUP
			FIXUP
		COLUMNS 6-72 CONTAINS 2 MT NUMBERS TO BE USED TO DEFINE THE PRODUCT.	FIXUP FIXUP
		USED TO DEFINE THE PRODUCT.	FIXUP
		CONVENTIONS	FIXUP
			FIXUP
		*UP TO 20 DELETIONS AND 20 SUMMATIONS OR	FIXUP
			FIXUP
		*ONLY 1 EXCLUSION FROM THRESHOLD TESTS	FIXUP
		MAY BE SPECIFIED (THE 1 LINE MAY CONTAIN	FIXUP
		UP TO 10 MT RANGES TO EXCLUDE FROM TESTS).	FIXUP
			FIXUP
			FIXUP
		INPUT LINE MUST BE BLANK). *THE UPPER LIMIT OF EACH RANGE MUST BE AT	FIXUP
		•	FIXUP
		*FOR RECONSTRUCTION POSITIVE MT RANGES WILL	
		BE ADDED TO THE SUM AND NEGATIVE MT RANGES	
		WILL BE SUBTRACTED.	FIXUP
		*IF INPUT OPTION 2 (FIRST INPUT LINE) IS	FIXUP
		0 THRESHOLD EXCLUSION IS NOT ALLOWED.	FIXUP
			FIXUP
		0 DELETIONS ARE NOT ALLOWED.	FIXUP
			FIXUP
		0 SUMMATIONS AND RATIOS ARE NOT ALLOWED.	
		IF THE USER SPECIFIES THAT SECTIONS WHICH ARE NOT PRESENT IN THE ORIGINAL EVALUATION	
		MAY BE CREATED, TWO LINES MUST BE INPUT FOR	
		EACH SECTION TO BE CREATED. THE TWO LINES	
		DEFINE (C1, C2, L1 AND L2) FOR EACH OF THE	
		FIRST TWO LINES OF THE SECTION TO BE	FIXUP
		CREATED. THE FIRST LINE ALSO DEFINES (MAT	FIXUP
		AND MT). (N1, N2) ARE ALWAYS ZERO ON THE	FIXUP
		FIRST LINE AND WILL BE CALCULATED BY THE	FIXUP
		PROGRAM FOR THE SECOND LINE.	FIXUP
		ZA OF SECTION TO BE CREATED	FIXUP
12-22		AWRE OF SECTION TO BE CREATED	FIXUP
23-33	I11	L1 OF SECTION TO BE CREATED	FIXUP

N-K

FIRST

LINE

	45-48	I4 T2	L2 OF SECTION TO BE CREATED MAT OF SECTION TO BE CREATED	FIXUP FIXUP
			C1 OF SECTION TO BE CREATED	FIXUP FIXUP
LINE	23-33	EII.4 T11		FIXUP FIXUP
	34-44		L2 OF SECTION TO BE CREATED	FIXUP
	01 11		*PAIRS OF LINES MAY BE IN ANY MAT/MT ORDER	
			(E.G., THEY NEED NOT BE IN ASCENDING	FIXUP
				FIXUP
				FIXUP
			DEFINE SECTIONS TO BE CREATED. THE LIST IS TERMINATED WHEN THE FIRST LINE OF A	FIXUP FIXUP
			PAIR CONTAINS A ZERO (OR BLANK) MAT AND/OR	
			MT.	FIXUP
M-N			IF THE USER SPECIFIES THAT ENERGIES WHICH	FIXUP
			ARE NOT PRESENT IN THE ORIGINAL EVALUATION	FIXUP
			MAY BE INSERTED, ONE LINE MUST BE INPUT FO	RFIXUP
			EACH ENERGY TO BE INSERTED.	FIXUP
	1-11 12-15		ENERGY TO BE INSERTED	FIXUP
	12-15 16-18		MAT IN WHICH TO INSERT ENERGY = 0 = ALL MT IN WHICH TO INSERT ENERGY = 0 = ALL	FIXUP FIXUP
	_0 10	10	*UP TO 50 (ENERGY, MAT, MT) LINES MAY BE	
				FIXUP
			LINE.	FIXUP
			*INPUT MAY BE IN ANY (ENERGY, MAT, MT)	FIXUP
			ORDER.	FIXUP
			*ENERGY POINTS CAN ONLY BE INSERTED WITHIN THE ORIGINAL ENERGY RANGE OF A SECTION -	FIXUP FIXUP
			THE ORIGINAL ENERGY RANGE OF A SECTION - THIS OPTION CANNOT BE USED TO EXTEND THE	FIXUP
			CROSS SECTION EITHER BELOW OR ABOVE THE	
			ORIGINAL TABULATED ENERGY RANGE.	FIXUP
				FIXUP
EXAN	APLE INPUT	r no. 1		FIXUP
(1)			ALL OPTIONS, EXCEPT INSERT ENERGY POINTS)	FIXUP
			R EXAMPLE PURPOSES ONLY)	FINOP
(-)		"=900 (FOR		FTXUP
(3)		-	ING MT NUMBERS TO BE RECONSTRUCTED,	FIXUP FIXUP
(3)	DEFINE TH	E FOLLOWI		
(3)	DEFINE TH (MT= 4) (MT=103)	E FOLLOWI = THE SUM = THE SUM	ING MT NUMBERS TO BE RECONSTRUCTED, 1 OF MT= 51 THROUGH 91 1 OF MT=700 THROUGH 718 (NOT 719)	FIXUP
(3)	DEFINE TH (MT= 4) (MT=103) (MT=104)	HE FOLLOWI = THE SUM = THE SUM = THE SUM	ING MT NUMBERS TO BE RECONSTRUCTED, 1 OF MT= 51 THROUGH 91 1 OF MT=700 THROUGH 718 (NOT 719) 1 OF MT=720 THROUGH 738 (NOT 739)	FIXUP FIXUP FIXUP FIXUP
(3)	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105)	HE FOLLOWI = THE SUM = THE SUM = THE SUM = THE SUM	ING MT NUMBERS TO BE RECONSTRUCTED, 1 OF MT= 51 THROUGH 91 1 OF MT=700 THROUGH 718 (NOT 719) 1 OF MT=720 THROUGH 738 (NOT 739) 1 OF MT=740 THROUGH 758 (NOT 759)	FIXUP FIXUP FIXUP FIXUP FIXUP
(3)	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106)	HE FOLLOWI = THE SUM = THE SUM = THE SUM = THE SUM = THE SUM	ING MT NUMBERS TO BE RECONSTRUCTED, 1 OF MT= 51 THROUGH 91 1 OF MT=700 THROUGH 718 (NOT 719) 1 OF MT=720 THROUGH 738 (NOT 739) 1 OF MT=740 THROUGH 758 (NOT 759) 1 OF MT=760 THROUGH 778 (NOT 779)	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=107)	HE FOLLOWI = THE SUM = THE SUM = THE SUM = THE SUM = THE SUM = THE SUM	ING MT NUMBERS TO BE RECONSTRUCTED, 1 OF MT= 51 THROUGH 91 1 OF MT=700 THROUGH 718 (NOT 719) 1 OF MT=720 THROUGH 738 (NOT 739) 1 OF MT=740 THROUGH 758 (NOT 759) 1 OF MT=760 THROUGH 778 (NOT 779) 1 OF MT=780 THROUGH 798 (NOT 799)	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=107) (MT= 16)	HE FOLLOWI = THE SUM = THE SUM = THE SUM = THE SUM = THE SUM = THE SUM	ING MT NUMBERS TO BE RECONSTRUCTED, 1 OF MT= 51 THROUGH 91 1 OF MT=700 THROUGH 718 (NOT 719) 1 OF MT=720 THROUGH 738 (NOT 739) 1 OF MT=740 THROUGH 758 (NOT 759) 1 OF MT=760 THROUGH 778 (NOT 779)	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
(3) Ew	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=107) (MT= 16) (MT=101)	HE FOLLOWI = THE SUM = THE SUM	ING MT NUMBERS TO BE RECONSTRUCTED, I OF MT= 51 THROUGH 91 I OF MT=700 THROUGH 718 (NOT 719) I OF MT=720 THROUGH 738 (NOT 739) I OF MT=740 THROUGH 758 (NOT 759) I OF MT=760 THROUGH 778 (NOT 779) I OF MT=780 THROUGH 798 (NOT 779) I OF MT=780 THROUGH 798 (NOT 799) I OF MT=710 THROUGH 891 I OF MT=102 THROUGH 114 + (MT=20 AND 21) + (MT=38)	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=107) (MT= 16) (MT=101)	HE FOLLOWI = THE SUM = THE SUM	ING MT NUMBERS TO BE RECONSTRUCTED, 1 OF MT= 51 THROUGH 91 1 OF MT=700 THROUGH 718 (NOT 719) 1 OF MT=720 THROUGH 738 (NOT 739) 1 OF MT=740 THROUGH 758 (NOT 759) 1 OF MT=760 THROUGH 778 (NOT 779) 1 OF MT=780 THROUGH 798 (NOT 799) 1 OF MT=875 THROUGH 891 1 OF MT=102 THROUGH 114 + (MT=20 AND 21) + (MT=38) CAL FISSION, MT=18, IS NOT PRESENT, DEFINE	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=107) (MT= 16) (MT=101)	HE FOLLOWI = THE SUM = (MT=19) (IF TOT IT BY S	NG MT NUMBERS TO BE RECONSTRUCTED, 1 OF MT= 51 THROUGH 91 1 OF MT=700 THROUGH 718 (NOT 719) 1 OF MT=720 THROUGH 738 (NOT 739) 1 OF MT=740 THROUGH 758 (NOT 759) 1 OF MT=760 THROUGH 778 (NOT 779) 1 OF MT=780 THROUGH 798 (NOT 799) 1 OF MT=875 THROUGH 891 1 OF MT=102 THROUGH 114 + (MT=20 AND 21) + (MT=38) CAL FISSION, MT=18, IS NOT PRESENT, DEFINE SUMMING FIRST, SECOND, ETC. CHANCE - NOTE	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=107) (MT= 16) (MT=101)	HE FOLLOWI = THE SUM = (MT=19) (IF TOT IT BY S THAT TH	TIG MT NUMBERS TO BE RECONSTRUCTED, 1 OF MT= 51 THROUGH 91 1 OF MT=700 THROUGH 718 (NOT 719) 1 OF MT=720 THROUGH 738 (NOT 739) 1 OF MT=740 THROUGH 758 (NOT 759) 1 OF MT=760 THROUGH 778 (NOT 779) 1 OF MT=780 THROUGH 798 (NOT 799) 1 OF MT=875 THROUGH 891 1 OF MT=102 THROUGH 891 1 OF MT=102 THROUGH 114 + (MT=20 AND 21) + (MT=38) CAL FISSION, MT=18, IS NOT PRESENT, DEFINE SUMMING FIRST, SECOND, ETC. CHANCE - NOTE HIS MUST BE DONE IN THIS ORDER, SINCE THE	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=107) (MT= 16) (MT=101) (MT= 18)	HE FOLLOWI = THE SUM = THE SUM (IF TOT IT BY S THAT TH NEXT SU	THE MAT NUMBERS TO BE RECONSTRUCTED, 1 OF MT= 51 THROUGH 91 1 OF MT=700 THROUGH 718 (NOT 719) 1 OF MT=720 THROUGH 738 (NOT 739) 1 OF MT=740 THROUGH 758 (NOT 759) 1 OF MT=760 THROUGH 778 (NOT 779) 1 OF MT=780 THROUGH 798 (NOT 799) 1 OF MT=875 THROUGH 891 1 OF MT=102 THROUGH 891 1 OF MT=102 THROUGH 114 + (MT=20 AND 21) + (MT=38) CAL FISSION, MT=18, IS NOT PRESENT, DEFINE SUMMING FIRST, SECOND, ETC. CHANCE - NOTE HIS MUST BE DONE IN THIS ORDER, SINCE THE IM INVOLVES USING MT=18.	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=107) (MT= 16) (MT=101) (MT= 18)	HE FOLLOWI = THE SUM = (MT=19) (IF TOT IT BY S THAT TH NEXT SU = THE SUM	TIG MT NUMBERS TO BE RECONSTRUCTED, 1 OF MT= 51 THROUGH 91 1 OF MT=700 THROUGH 718 (NOT 719) 1 OF MT=720 THROUGH 738 (NOT 739) 1 OF MT=740 THROUGH 758 (NOT 759) 1 OF MT=760 THROUGH 778 (NOT 779) 1 OF MT=780 THROUGH 798 (NOT 799) 1 OF MT=875 THROUGH 891 1 OF MT=102 THROUGH 891 1 OF MT=102 THROUGH 114 + (MT=20 AND 21) + (MT=38) CAL FISSION, MT=18, IS NOT PRESENT, DEFINE SUMMING FIRST, SECOND, ETC. CHANCE - NOTE HIS MUST BE DONE IN THIS ORDER, SINCE THE	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=101) (MT= 18) (MT= 27)	HE FOLLOWI = THE SUM = (MT=19) (IF TOT IT BY S THAT TH NEXT SU = THE SUM (MT=101	THE SUMMING FIRST, SECOND, ETC. CHANCE - NOTE NOF MT= 18 AND 101 NOF MT=18 AND 101 NOF MT=780 ND 101 NOF MT=740 THROUGH 718 (NOT 719) NOF MT=740 THROUGH 738 (NOT 759) NOF MT=760 THROUGH 778 (NOT 779) NOF MT=780 THROUGH 778 (NOT 799) NOF MT=780 THROUGH 891 NOF MT=875 THROUGH 891 NOF MT=102 THROUGH 114 + (MT=20 AND 21) + (MT=38) NOT PRESENT, DEFINE NUMMING FIRST, SECOND, ETC. CHANCE - NOTE NOTE MODE IN THIS ORDER, SINCE THE NOT MT= 18 AND 101	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=101) (MT= 18) (MT= 27)	<pre>HE FOLLOWI = THE SUM = (MT=19) (IF TOT IT BY S THAT TH NEXT SU (MT=101 = THE SUM (MT=41-</pre>	The first second form of the form of the form $T = 18$ and $T = 10$ the form $T = 10$ through $T = 10$ thro	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=107) (MT= 16) (MT=101) (MT= 18) (MT= 27) (MT= 3)	<pre>HE FOLLOWI = THE SUM = THE SUM (MT=19) (IF TOT IT BY S THAT TH NEXT SU (MT=101 = THE SUM (MT=41- (MT=4 A</pre>	The second probability of the second probab	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=107) (MT= 16) (MT=101) (MT= 18) (MT= 27) (MT= 3)	<pre>HE FOLLOWI = THE SUM = THE SUM (MT=19) (IF TOT IT BY S THAT TH NEXT SU (MT=101 = THE SUM (MT=41- (MT=4 A) = (MT=18)</pre>	The function of the seconstructed of the seconstru	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=107) (MT= 16) (MT=101) (MT= 18) (MT= 27) (MT= 3)	<pre>HE FOLLOWI = THE SUM = THE SUM (MT=19) (IF TOT IT BY S THAT TH NEXT SU (MT=41- (MT=4 A) = (MT=18) (DEFINE</pre>	The first change for the firs	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=107) (MT= 16) (MT=101) (MT= 18) (MT= 27) (MT= 3)	<pre>HE FOLLOWI = THE SUM = THE SUM (IF TOT IT BY S THAT TH NEXT SU = THE SUM (MT=101 = THE SUM (MT=41- (MT=4 A = (MT=18)) (DEFINE ALLOW B</pre>	The function of the second product product of the second product of the second product	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=101) (MT=101) (MT= 18) (MT= 27) (MT= 3) (MT= 19)	<pre>HE FOLLOWI = THE SUM = (MT=19) (IF TOT IT BY SS THAT TH NEXT SU = THE SUM (MT=101] = THE SUM (MT=41- (MT=4 A = (MT=18)) (DEFINE ALLOW R INCLUDE</pre>	The first change for the firs	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=101) (MT=101) (MT= 18) (MT= 27) (MT= 3) (MT= 19)	HE FOLLOWI = THE SUM = THE SUM (MT=19) (IF TOT IT BY SS THAT TH NEXT SU = THE SUM (MT=41- (MT=4 A) (DEFINE ALLOW R INCLUDE = THE SUM	The function of the term of term of the term of term of term of the term of t	FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP FIXUP
SW	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=107) (MT= 16) (MT=101) (MT= 18) (MT= 27) (MT= 3) (MT= 19) (MT= 1)	HE FOLLOWI = THE SUM = THE SUM (MT=19) (IF TOT IT BY SS THAT TH NEXT SU = THE SUM (MT=101 = THE SUM (MT=18)) (DEFINE ALLOW R INCLUDE = THE SUM (MT=3 R	The first second for the second formula for the second form of the second formula for the second formula for the second formula	FIXUP FIXUP
EW	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=107) (MT= 16) (MT=101) (MT= 18) (MT= 27) (MT= 3) (MT= 19) (MT= 1) THRESHOLD TESTED OF	HE FOLLOWI = THE SUM = THE SUM (MT=10) (IF TOT IT BY S THAT TH NEXT SU = THE SUM (MT=41- (MT=4 A = (MT=18)) (DEFINE ALLOW R INCLUDE = THE SUM (MT=3 R ENERGIES CORRECTE	The function of the second structed and the second st	FIXUP FIXUP
EW (4) 1	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=101) (MT= 16) (MT= 101) (MT= 18) (MT= 27) (MT= 3) (MT= 19) (MT= 1) THRESHOLD TESTED OF MT=1, 4,	HE FOLLOWI = THE SUM = THE SUM (MT=19) (IF TOT IT BY S THAT TH NEXT SU (MT=101 = THE SUM (MT=41- (MT=4 A = (MT=18)) (DEFINE ALLOW R INCLUDE = THE SUM (MT=3 R ENERGIES CORRECTE 18, 19, 9	The function of the second structed and structed and structed and structure of the second structure	FIXUP FIXUP
EW (4) 1 (5) I	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=101) (MT= 101) (MT= 18) (MT= 27) (MT= 3) (MT= 19) (MT= 1) THRESHOLD TESTED OF MT=1, 4, DEFINE MT=	<pre>HE FOLLOWI = THE SUM = THE SUM (MT=19) (IF TOT IT BY S THAT TH NEXT SU (MT=41- (MT=41- (MT=41)) (DEFINE ALLOW R INCLUDE = THE SUM (MT=3 R ENERGIES & CORRECTE 18, 19, 9 =254 TO BE</pre>	The formation of the f	FIXUP FIXUP
EW (4) 1 (5) 1 (6) 0	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=101) (MT= 101) (MT= 18) (MT= 18) (MT= 19) (MT= 1) (MT= 1) THRESHOLD TESTED OF MT=1, 4, DEFINE MT= CREATE MAT	<pre>HE FOLLOWI = THE SUM = THE SUM (MT=10) (IF TOT IT BY S THAT TH NEXT SU (MT=41- (MT=41- (MT=4) (DEFINE ALLOW R INCLUDE = THE SUM (MT=3 R ENERGIES & CORRECTE 18, 19, 9 =254 TO BE T=1300/MT=</pre>	The formation of the f	FIXUP FIXUP
EW (4) 1 (5) 1 (6) 0	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=101) (MT= 101) (MT= 18) (MT= 18) (MT= 19) (MT= 1) (MT= 1) THRESHOLD TESTED OF MT=1, 4, DEFINE MT= CREATE MAT	<pre>HE FOLLOWI = THE SUM = THE SUM (MT=10) (IF TOT IT BY S THAT TH NEXT SU (MT=41- (MT=41- (MT=4) (DEFINE ALLOW R INCLUDE = THE SUM (MT=3 R ENERGIES & CORRECTE 18, 19, 9 =254 TO BE T=1300/MT=</pre>	The formation of the f	FIXUP FIXUP
EW (4) 1 (5) I (6) (F	DEFINE TH (MT= 4) (MT=103) (MT=104) (MT=105) (MT=106) (MT=107) (MT= 16) (MT=101) (MT= 18) (MT= 27) (MT= 3) (MT= 19) (MT= 1) THRESHOLD TESTED OF MT=1, 4, DEFINE MT= CREATE MAT HAVE THE C	HE FOLLOWI = THE SUM = THE SUM (MT=10) (IF TOT IT BY SS THAT TH NEXT SU = THE SUM (MT=41- (MT=4 A = (MT=18)) (DEFINE ALLOW R INCLUDE = THE SUM (MT=3 R ENERGIES & CORRECTE 18, 19, 9 =254 TO BE CAPTURE TO	The formation of the f	FIXUP FIXUP

WILL BE SKIPPED BY THE PROGRAM IN READING INPUT - THE RESULTS FIXUP WOULD BE THE SAME IF THESE CHARACTERS WERE OMITTED, AS LONG AS FIXUP ALL OF THE MT NUMBERS ARE DELIMITED, I.E., THERE IS AT LEAST ONE FIXUP NON-DIGITAL CHARACTER BETWEEN MT NUMBERS. NOTE, THAT - (MINUS FIXUP SIGN) IS IMPORTANT AND IS USED DURING INPUT TO DEFINE MT RANGES FIXUP WHICH SHOULD BE SUBTRACTED, E.,G., SEE THE DEFINITION OF MT=19. FIXUP FIXUP READ FILE /ENDFB6/K300/LEAD.IN AND WRITE /ENDFB6/K300/LEAD.OUT FIXUP FIXUP THE FOLLOWING 21 INPUT LINES ARE REQUIRED. FIXUP FIXUP 111111111111 FIXUP /ENDFB6/K300/LEAD.IN FIXUP /ENDFB6/K300/LEAD.OUT FIXUP D900 FIXUP 4=(51, 91) FIXUP 103 = (700, 718)FIXUP 104 = (720, 738)FIXUP 105 = (740, 758)FIXUP 106 = (760, 778)FIXUP 107 = (780, 798)FIXUP 16 = (875, 891)FIXUP 101 = (102, 114)FIXUP 18=(19, 19)+(20, 21)+(38, 38) FIXUP 27 = (18, 18) + (101, 101)FIXUP 3=(4,4)+(6,9)+(16,17)+(22,37)+(41,45) 19=(18,18)-(20,21)-(38,38) FIXUP FIXUP 1=(2, 3) FIXUP (1, 1)+(4, 4)+(18, 18)+(91, 91)+(103, 114)т FIXUP R254=(102/ 18) FIXUP (BLANK LINE TO TERMINATE SUMMATION/DELETION RULES) FIXUP 2.00400 + 3 0.00000 + 001300254 FIXUP 0 0.00000+ 0 0.00000+ 00 0 FIXUP (BLANK LINE TO TERMINATE SECTION CREATION RULES) FIXUP FIXUP NOTE, THE DELETION AND THRESHOLD EXCLUSION LINES MAY APPEAR IN FIXUP IN ANY ORDER. HOWEVER, SUMMATION AND RATIO RULES MUST APPEAR IN FIXUP THE ORDER IN WHICH YOU WANT THEM TO BE EXECUTED - E.G., THE FIXUP ABOVE INPUT WILL FIRST RECONSTRUCT MT=4, WHICH CAN THEN BE USED FIXUP TO CONTRIBUTE TO THE FOLLOWING SUM TO DEFINE MT=3, WHICH IN TURN FIXUP CAN THEN BE USED TO CONTRIBUTE TO THE FOLLOWING SUM TO DEFINE FIXUP MT=1. IF THE ORDER OF THE INPUT LINES IS CHANGED SUCH THAT MT=3 FIXUP IS RECONSTRUCTED BEFORE MT=4, THE ORIGINAL MT=4 WILL BE USED IN FIXUP THE SUMMATION TO DEFINE MT=3. THE SAME RULES APPLY TO CALCULATING FIXUP RATIOS, IF EITHER THE NUMERATOR OR DENOMINATOR IS TO BE DEFINED FIXUP BY SUMMATION. THIS SHOULD BE DONE BEFORE DEFINING THE RATIO BY FIXUP INPUT PARAMETERS. FIXUP FIXUP EXAMPLE INPUT NO. 2 FIXUP FIXUP (1) USE OPTIONS 1-11 (ALL OPTIONS, EXCEPT INSERT ENERGY POINTS) FIXUP (2) USE BUILT-IN TABLES FOR SUMMATION/DELETION/THRESHOLD EXCLUSIONFIXUP (THIS ONLY REQUIRES COLUMNS 2, 4 AND 5 TO BE SET =2 ON THE FIXUP FIRST INPUT LINE. THE BUILT-IN RULES EXACTLY CORRESPOND TO FIXUP THE INPUT ABOVE UNDER EXAMPLE NO. 1, EXCEPT THAT NO MT NUMBERSFIXUP WILL BE DELETED. FIXUP (3) IF NOT PRESENT, CREATE MAT=1300/MT=1 FIXUP FIXUP USE THE STANDARD FILE NAMES ENDFB.IN AND ENDFB.OUT (THIS CAN BE FIXUP DONE BY LEAVING THE SECOND AND THIRD INPUT LINES BLANK). FIXUP FIXUP THE FOLLOWING 6 INPUT LINES ARE REQUIRED. FIXUP FIXUP 12122111111 FIXUP FIXUP FIXUP 2.00400+ 3 0.00000+ 0 0 01300 1 FIXUP 0.0000+ 0 0.0000+ 00 0 FIXUP (BLANK LINE TO TERMINATE SECTION CREATION RULES) FIXUP FIXUP EXAMPLE INPUT NO. 3 FIXUP

	FIXUP
	FIXUP
DO NOT ALLOW SECTION CREATION AND INSERT ENERGY POINTS).	FIXUP
(2) USE BUILT-IN TABLES FOR SUMMATION/DELETION/THRESHOLD EXCLUSION	FIXUP
(THIS ONLY REQUIRES COLUMNS 2, 4 AND 5 TO BE SET =2 ON THE	FIXUP
FIRST INPUT LINE. THE BUILT-IN RULES EXACTLY CORRESPOND TO	FIXUP
THE INPUT ABOVE UNDER EXAMPLE NO. 1, EXCEPT THAT NO MT NUMBERS	FIXUP
WILL BE DELETED.	FIXUP
(3) DO NOT CREATE ANY SECTIONS.	FIXUP
	FIXUP
READ FILE /ENDFB6/K300/LEAD.IN AND WRITE /ENDFB6/K300/LEAD.OUT	FIXUP
	FIXUP
THE FOLLOWING 3 INPUT LINES ARE REQUIRED.	FIXUP
	FIXUP
1212211111	FIXUP
/ENDFB6/K300/LEAD.IN	FIXUP
	FIXUP
, , , , , , ,	FIXUP
EXAMPLE INPUT NO. 4	FIXUP
	FIXUP
	FIXUP
	FIXUP
	FIXUP
USE THE STANDARD FILE NAMES ENDFB.IN AND ENDFB.OUT (THIS CAN BE	FIXUP
•	FIXUP
	FIXUP
	FIXUP
-	FIXUP
	FIXUP
	FIXUP
	FIXUP
	FIXUP
·	FIXUP
	FIXUP
WARNING	FIXUP
======	FIXUP
ALTHOUGH THIS PROGRAM IS DESIGNED TO ALLOW REACTIONS TO BE DEFINED	
	FIXUP
DEFINE REACTIONS BY SUMMING TO AVOID NEGATIVE CROSS SECTIONS. FOR	
,	FIXUP
•	FIXUP
	FIXUP
FISSION (MT=18) MINUS THE SECOND, THIRD AND FOURTH CHANGE FISSION	FIXUP
(MT=20, 21, 38). THIS HAS BEEN DONE TO ALLOW THE RESONANCE	FIXUP
CONTRIBUTION, CALCULATED BY MANY CODES AND INCLUDED IN MT=18,	FIXUP
TO BE CONSISTENTLY INCLUDED IN THE FIRST CHANCE FISSION.	FIXUP
	FIXUP
	FIXUP