					Mei
PROGRAM	MERGE	:R			Mei
======	=====	:=			Mei
VERSION	80-1	(JANUAF	RY 1980)		Mei
VERSION	80-2	(DECEME	BER 1980)	Mei
VERSION	82-1	(JANUAF	RY 1982)		Mei
VERSION	83-1	(JANUAF	RY 1983)	*NEW, MORE COMPATIBLE I/O UNIT NUMBERS.	Mei
VERSION	85-1	(AUGUSI	! 1985)	*FORTRAN-77/H VERSION	Meı
		-	-	*ENDF/B-VI FORMATS	Mei
VERSION	88-1	(JULY 1	1988)	*OPTIONINTERNALLY DEFINE ALL I/O	Meı
				FILE NAMES (SEE, SUBROUTINES FILIO1	Mei
				AND FILIO2 FOR DETAILS).	Mei
				*IMPROVED BASED ON USER COMMENTS.	Meı
VERSION	89-1	(JANUAF	₹Y 1989)	*PSYCHOANALYZED BY PROGRAM FREUD TO	Meı
				INSURE PROGRAM WILL NOT DO ANYTHING	Mei
				CRAZY.	Mei
				*UPDATED TO USE NEW PROGRAM CONVERT	Mei
				KEYWORDS.	Mei
				*ADDED LIVERMORE CIVIC COMPILER	Mei
WEDGTON	02-1	/.TANIIIA T	v 1000	CONVENTIONS.	Mea
AFKSION	92-I	(JANUAL)	-	*UPDATED BASED ON USER COMMENTS *ADDED FORTRAN SAVE OPTION	Mea
VERSION	92-2	/.TITT V 1		*ALLOW UP TO 99 ENDF/B DATA FILES.	Mea
^ ⊏K9ION	9Z-Z	(OOLI I	. 332)	*ALLOW UP TO 99 ENDE/B DATA FILES. (TO ALLOW MANAGEMENT OF THE ENTIRE	Mer
				ENDF/B SYSTEM).	
VERSTON	94-1	(,TANITAT,)	RY 19941	*VARIABLE ENDF/B DATA FILENAMES	Mer
VIIIOIOI	77 1	(021110211	(1 1334)	TO ALLOW ACCESS TO FILE STRUCTURES	Mei
				(WARNING - INPUT PARAMETER FORMAT	Mei
				HAS BEEN CHANGED)	Mei
				*ONLY SPECIFY FILENAMES - NO UNIT	Mei
				NUMBERS ON INPUT (WARNING - INPUT	Mei
				PARAMETERS FORMAT HAS BEEN CHANGED)	Mei
				*CLOSE ALL FILES BEFORE TERMINATING	Mei
				(SEE, SUBROUTINE ENDIT)	Mei
				*REQUEST LOG DELETED	Mei
VERSION	96-1	(JANUAF	RY 1996)	*COMPLETE RE-WRITE	Mei
				*IMPROVED COMPUTER INDEPENDENCE	Mei
				*ALL DOUBLE PRECISION	Meı
				*ON SCREEN OUTPUT	Mei
				*UNIFORM TREATMENT OF ENDF/B I/O	Meı
				*IMPROVED OUTPUT PRECISION	Meı
VERSION	99-1	(MARCH	1999)	*GENERAL IMPROVEMENTS BASED ON	Meı
				USER FEEDBACK	Mei
VERS ?	000-1	(FEBRUA	ARY 2000)*GENERAL IMPROVEMENTS BASED ON	
2					Meı
				USER FEEDBACK	Meı
VERS. 2	002-1	•	•	*OPTIONAL INPUT PARAMETERS	Mei
VERS. 2	002-1	•	•	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON	Mei Mei
VERS. 2 VERS. 2	002-1 004-1	(MARCH	2004)	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED	Mei Mei Mei
VERS. 2 VERS. 2 VERS. 2	002-1 004-1 007-1	(MARCH	2004)	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII.	Mer Mer Mer Mer
VERS. 2 VERS. 2 VERS. 2	002-1 004-1 007-1	(MARCH	2004)	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES.	Men Men Men Men Men
VERS. 2 VERS. 2 VERS. 2 VERS. 2	002-1 004-1 007-1 007-2	(MARCH (JAN. (JUNE	2004) 2007) 2007)	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES.	Mer Mer Mer Mer Mer Mer
VERS. 2 VERS. 2 VERS. 2 VERS. 2	002-1 004-1 007-1 007-2 010-1	(MARCH (JAN. (JUNE (Apr.	2004) 2007) 2007) 2010)	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback	Mer Mer Mer Mer Mer Mer Mer
VERS. 2 VERS. 2 VERS. 2 VERS. 2	002-1 004-1 007-1 007-2 010-1	(MARCH (JAN. (JUNE (Apr.	2004) 2007) 2007) 2010)	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME	Men Men Men Men Men Men Men Men
VERS. 2 VERS. 2 VERS. 2 VERS. 2	002-1 004-1 007-1 007-2 010-1	(MARCH (JAN. (JUNE (Apr.	2004) 2007) 2007) 2010)	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible	Mer Mer Mer Mer Mer Mer Mer Mer
VERS. 2 VERS. 2 VERS. 2 VERS. 2 VERS. 2	002-1 004-1 007-1 007-2 010-1 012-1	(MARCH (JAN. (JUNE (Apr. (Aug.	2004) 2007) 2007) 2010) 2012)	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop	Mer Mer Mer Mer Mer Mer Mer Mer Mer
VERS. 2 VERS. 2 VERS. 2 VERS. 2 VERS. 2	002-1 004-1 007-1 007-2 010-1 012-1	(MARCH (JAN. (JUNE (Apr. (Aug.	2004) 2007) 2007) 2010) 2012) 2015)	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop *Replaced ALL 3 way IF Statements.	Mer Mer Mer Mer Mer Mer Mer Mer Mer Mer
VERS. 2 VERS. 2 VERS. 2 VERS. 2 VERS. 2 VERS. 2	002-1 004-1 007-1 007-2 010-1 012-1 015-1 017-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May	2004) 2007) 2007) 2010) 2012) 2015) 2017)	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop *Replaced ALL 3 way IF Statements. *Updated based on user feedbck.	Mer Mer Mer Mer Mer Mer Mer Mer Mer Mer
VERS. 2 VERS. 2 VERS. 2 VERS. 2 VERS. 2 VERS. 2 VERS. 2	002-1 004-1 007-1 007-2 010-1 012-1 015-1 017-1 018-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan.	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018)	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop *Replaced ALL 3 way IF Statements. *Updated based on user feedbck. *Added on-line output for ALL ENDERROR	Mer Mer Mer Mer Mer Mer Mer Mer Mer Mer
VERS. 2	002-1 004-1 007-1 007-2 010-1 012-1 015-1 017-1 018-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan.	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018)	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop *Replaced ALL 3 way IF Statements. *Updated based on user feedbck.	Mer Mer Mer Mer Mer Mer Mer Mer Mer Mer
VERS. 2	002-1 004-1 007-1 007-2 010-1 012-1 015-1 017-1 018-1 019-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018) 2019)	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop *Replaced ALL 3 way IF Statements. *Updated based on user feedbck. *Added on-line output for ALL ENDERROR *Identical to 2018-1	Men Men Men Men Men Men Men Men Men Men
VERS. 2	002-1 004-1 007-1 007-2 010-1 012-1 015-1 015-1 018-1 019-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018) 2019)	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop *Replaced ALL 3 way IF Statements. *Updated based on user feedbck. *Added on-line output for ALL ENDERROR	Men Men Men Men Men Men Men Men Men Men
VERS. 2	002-1 004-1 007-1 007-2 010-1 012-1 015-1 017-1 018-1 019-1 MAINTA	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June AINED AN	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018) 2019)	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop *Replaced ALL 3 way IF Statements. *Updated based on user feedbck. *Added on-line output for ALL ENDERROR *Identical to 2018-1	Men Men Men Men Men Men Men Men Men Men
VERS. 2 OWNED, THE NUC	002-1 004-1 007-1 007-2 010-1 012-1 015-1 017-1 018-1 019-1 MAINTA	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June AINED AN	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018) 2019) ND DISTR	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop *Replaced ALL 3 way IF Statements. *Updated based on user feedbck. *Added on-line output for ALL ENDERROR *Identical to 2018-1	Men Men Men Men Men Men Men Men Men Men
VERS. 2 OWNED, THE NUC	002-1 004-1 007-1 007-2 010-1 012-1 015-1 017-1 018-1 019-1 MAINTA	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June AINED AN	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018) 2019)	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop *Replaced ALL 3 way IF Statements. *Updated based on user feedbck. *Added on-line output for ALL ENDERROR *Identical to 2018-1	Meri Meri Meri Meri Meri Meri Meri Meri
VERS. 2 VERS. 1	002-1 004-1 007-1 007-2 010-1 012-1 015-1 017-1 018-1 019-1 MAINTA	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June AINED AN	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018) 2019) ND DISTR CTION C ENERGY	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop *Replaced ALL 3 way IF Statements. *Updated based on user feedbck. *Added on-line output for ALL ENDERROR *Identical to 2018-1	Meri Meri Meri Meri Meri Meri Meri Meri
VERS. 2 VERS. 1	002-1 004-1 007-1 007-2 010-1 012-1 015-1 017-1 018-1 019-1 MAINTA	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June AINED AN	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018) 2019) ND DISTR CTION C ENERGY	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop *Replaced ALL 3 way IF Statements. *Updated based on user feedbck. *Added on-line output for ALL ENDERROR *Identical to 2018-1	Men
VERS. 2 INTERNA P.O. BO A-1400,	002-1 004-1 007-1 007-2 010-1 012-1 015-1 017-1 018-1 019-1 MAINTA	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June AINED AN	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018) 2019) ND DISTR CTION C ENERGY	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop *Replaced ALL 3 way IF Statements. *Updated based on user feedbck. *Added on-line output for ALL ENDERROR *Identical to 2018-1	Meri Meri Meri Meri Meri Meri Meri Meri
VERS. 2 VERS. 1	002-1 004-1 007-1 007-2 010-1 012-1 015-1 017-1 018-1 019-1 MAINTA LEAR D TIONAI X 100 VIENN	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June AINED AN AINED AN AINED AN ATA SEC	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018) 2019) ND DISTR CTION C ENERGY	*OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII. *UP, TO 1,000 ENDF/B FILES. *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop *Replaced ALL 3 way IF Statements. *Updated based on user feedbck. *Added on-line output for ALL ENDERROR *Identical to 2018-1	Meri Meri Meri Meri Meri Meri Meri Meri

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Dermott E. Cullen	Merger
PRESENT CONTACT INFORMATION	Merger
	Merger Merger
Dermott E. Cullen	Merger
1466 Hudson Way	Merger
Livermore, CA 94550 U.S.A.	Merger Merger
Telephone 925-443-1911	Merger
E. Mail RedCullen1@Comcast.net	Merger
Website RedCullen1.net/HOMEPAGE.NEW	Merger
AUTHORS MESSAGE	Merger Merger
	Merger
THE COMMENTS BELOW SHOULD BE CONSIDERED THE LATEST DOCUMENTATION	Merger
FOR THIS PROGRAM INCLUDING ALL RECENT IMPROVEMENTS. PLEASE READ	Merger
ALL OF THESE COMMENTS BEFORE IMPLEMENTATION, PARTICULARLY THE COMMENTS CONCERNING MACHINE DEPENDENT CODING.	Merger Merger
	Merger
AT THE PRESENT TIME WE ARE ATTEMPTING TO DEVELOP A SET OF COMPUTER	
INDEPENDENT PROGRAMS THAT CAN EASILY BE IMPLEMENTED ON ANY ONE OF A WIDE VARIETY OF COMPUTERS. IN ORDER TO ASSIST IN THIS PROJECT	Merger
IT WOULD BE APPECIATED IF YOU WOULD NOTIFY THE AUTHOR OF ANY	Merger
COMPILER DIAGNOSTICS, OPERATING PROBLEMS OR SUGGESTIONS ON HOW TO	Merger
IMPROVE THIS PROGRAM. HOPEFULLY, IN THIS WAY FUTURE VERSIONS OF	Merger
THIS PROGRAM WILL BE COMPLETELY COMPATIBLE FOR USE ON YOUR	Merger
COMPUTER.	Merger Merger
PURPOSE	Merger
	Merger
THIS PROGRAM IS DESIGNED TO SELECTIVELY RETRIEVE DATA OFF OF FROM	Merger
1 TO 10 ENDF/B DATA TAPES AND TO MERGE THE SELECTED DATA INTO A SINGLE MAT/MF/MT ORDERED FINAL OUTPUT FILE.	Merger
SINGLE MAI/ME/MI ORDERED FINAL COIPUI FILE.	Merger Merger
IN THE DISCUSSION THAT FOLLOWS FOR SIMPLICITY THE ENDF/B	Merger
TERMINOLOGYENDF/B TAPEWILL BE USED. IN FACT THE ACTUAL	Merger
MEDIUM USED MAY BE TAPE, CARD, DISK OR ANY OTHER MEDIUM.	Merger
ENDF/B FORMAT	Merger Merger
	Merger
THIS PROGRAM ONLY USES THE ENDF/B BCD OR CARD IMAGE FORMAT (AS	Merger
OPPOSED TO THE BINARY FORMAT) AND CAN HANDLE DATA IN ANY VERSION	Merger
OF THE ENDF/B FORMAT (I.E., ENDF/B-I, II,III, IV OR V FORMAT).	Merger Merger
THE ONLY NUMERICAL DATA THAT THIS PROGRAM READS IS THE ZA FROM THE	
FIRST CARD OF EACH SECTION AND THE MAT/MF/MT FROM EACH CARD.	Merger
SEQUENCE NUMBERS ARE IGNORED ON INPUT AND ALL OTHER FIELDS ARE	Merger
READ AS HOLLERITH. AS SUCH THIS PROGRAM NEED NOT DISTINGUISH	Merger
BETWEEN DIFFERENT VERSIONS OF THE ENDF/B FORMAT.	Merger Merger
IT IS ASSUMED THAT THE DATA IS CORRECTLY CODED IN THE ENDF/B	Merger
FORMAT AND NO ERROR CHECKING IS PERFORMED. IN PARTICULAR IT IS	Merger
ASSUMED THAT THE MAT, MF AND MT ON EACH CARD IS CORRECT. SEQUENCE	-
NUMBERS (COLUMNS 76-80) ARE IGNORED ON INPUT, BUT WILL BE CORRECTLY OUTPUT ON ALL CARDS.	Merger Merger
CONCECTED ON AND CAMPO.	Merger
SECTION SIZE	Merger
	Merger
SINCE THIS PROGRAM ONLY READS THE DATA ONE CARD AT A TIME THERE IS NO LIMIT TO THE SIZE OF ANY GIVEN SECTION, E.G. THE TOTAL	Merger Merger
CROSS SECTION MAY BE DESCRIBED BY 200,000 DATA POINTS.	Merger
	Merger
SELECTION OF DATA	Merger
THE HOLD MAY CHOOLE TO MEDGE ALL DAMA OF THE HOLD MAY OFFICIAL	Merger
THE USER MAY CHOOSE TO MERGE ALL DATA OR THE USER MAY SPECIFY THAT ONLY CERTAIN DATA SHOULD BE SELECTED. THE DATA TO BE	Merger Merger
SELECTED IS DEFINED BY SPECIFYING UP TO 100 MAT/MF/MT OR	Merger
ZA/MF/MT RANGES. EACH RANGE IS DEFINED BY LOWER AND UPPER LIMITS	Merger
OF MAT/MF/MT OR ZA/MF/MT.	Merger
DECLINOR LINING	Merger
REQUEST LIMITS	Merger

Merger

REQUEST LIMITS

IN ORDER TO SIMPLIFY THE INPUT OF SELECTION REQUESTS THE FOLLOWING Merger CONVENTIONS HAVE BEEN INTRODUCED IN ORDER TO DEFINE THE UPPER LIMITS OF REQUESTS IF THEY ARE NOT DEFINED BY INPUT (I.E., IF THEY Merger ARE ZERO).

(1) MAT OR ZA - IF THE UPPER LIMIT IS ZERO IT IS SET EQUAL TO THE LOWER LIMIT.

(2) MF OR MT - IF THE UPPER LIMIT IS ZERO IT IS SET EQUAL TO THE MAXIMUM POSSIBLE VALUE, 99 OR 999 RESPECTIVELY.

WITH THESE CONVENTIONS AN ENTIRE EVALUATION MAY BE SELECTED BY MERELY SPECIFYING THE LOWER LIMIT OF MAT OR ZA. THE UPPER MAT OR ZA LIMIT WILL BE SET EQUAL TO THE LOWER LIMIT, THE LOWER LIMITS OF Merger MF/MT WILL BE 0/0 AND THE UPPER LIMITS OF MF/MT WILL BE SET TO 99/999. THIS WILL CAUSE ALL SECTIONS OF A SINGLE EVALUATION TO BE SELECTED.

SATISFYING SELECTION CRITERIA

IN ORDER FOR A SECTION TO MEET THE SELECTION CRITERIA SPECIFIED BY ONE OF THE RETRIEVAL REQUESTS, EACH OF THE THREE FIELDS (MAT/MF/MT OR ZA/MF/MT) MUST INDIVIDUALLY SATISFY THE CORRESPONDING Merger LIMITS OF THE REQUEST. IT IS NOT SUFFICIENT THAT THE MAT OF A SECTION LIE BETWEEN THE MINIMUM AND MAXIMUM MATS OF A REQUEST. THE Merger MF AND MT WILL ALSO BE INDIVIDUALLY COMPARED TO THE MF AND MT LIMITS OF THE REQUEST. FOR EXAMPLE, A SECTION WITH MAT/MF/MT= 2500/3/2 DOES NOT SATISFY A REQUEST THAT SPECIFIES A REQUEST USING Merger THE RANGE 2000/3/1 THROUGH 3000/3/1. THIS REQUEST SPECIFIES ALL MATERIALS WITH MAT BETWEEN 2000 AND 3000, BUT ONLY THOSE SECTIONS WITH MF/MT=3/1. SIMILARLY A REQUEST FOR 2000/3/1 THROUGH 3000/99/ 999 WILL NOT SELECT ANY SECTIONS WITH MF=1 OR 2, SINCE THE REQUEST SPECIFIES ALL MATERIALS WITH MAT BETWEEN 2000 AND 3000, BUT ONLY THOSE SECTIONS WITH MF= 3, OR MORE.

DUPLICATE SECTIONS ______

IF TWO OR MORE SECTIONS WITH THE SAME MAT/MF/MT ARE FOUND EITHER ON THE SAME OR DIFFERENT TAPES, THE SECTION FROM THE TAPE DEFINED EARLIEST IN THE INPUT CARDS WILL BE COPIED TO THE FINAL TAPE AND ALL OTHER SECTIONS WITH THE SAME MAT/MF/MT WILL BE SKIPPED. THE OUTPUT REPORT WILL INDICATE WHICH SECTIONS WERE COPIED FROM WHICH TAPES, AS WELL AS WHICH SECTIONS ARE DUPLICATE AND WERE SKIPPED.

REACTION INDEX

THIS PROGRAM DOES NOT UPDATE THE REACTION INDEX IN MF=1, MT=451. FOR EACH MATERIAL THE PROGRAM WILL FOLLOW THE CONVENTIONS DEFINED ABOVE AND ONLY COPY ONE SECTION MF=1, MT=451 AND SKIP ALL OTHERS (IF MORE THAN ONE). THIS CONVENTION HAS BEEN ADOPTED BECAUSE MOST USERS DO NOT REQUIRE A CORRECT REACTION INDEX FOR THERE APPLICATIONS AND IT WAS NOT CONSIDERED WORTHWHILE TO INCLUDE Merger THE OVERHEAD OF CONSTRUCTING A CORRECT REACTION INDEX IN THIS PROGRAM. HOWEVER, IF YOU REQUIRE A REACTION INDEX FOR YOUR APPLICATION AFTER RUNNING THIS PROGRAM YOU MAY USE PROGRAM DICTIN TO CREATE ONE.

RETRIEVAL STATISTICS

THERE WILL ALWAYS BE AN OUTPUT REPORT LISTING INDICATING WHICH Merger SECTIONS WHERE SELECTED, WHICH DUPLICATE SECTIONS WERE SKIPPED, WHICH TAPE THE SECTION WAS ON, WHICH REQUEST (MAT/MF/MT OR ZA/MF/MT RANGE) CAUSED THE SECTION TO BE SELECTED AND HOW MANY CARDS WERE IN THE SECTION. IN ADDITION THE USER MAY OPTIONALLY Merger OBTAIN A FILE CONTAINING THE SAME INFORMATION. THIS FILE MAY BE COMBINED WITH OTHER SIMILAR FILES OUTPUT BY THIS PROGRAM IN ORDER TO ACCUMULATE RETRIEVAL STATISTICS OVER A PERIOD OF TIME. IF SPECIFIED THIS FILE WILL CONTAIN THE FOLLOWING INFORMATION IN 617 FORMAT.

(1) ZA

Merger Merger Merger Merger Merger Merger Merger

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> Merger Merger Merger Merger

Merger Merger Merger Merger

Merger Merger

	r Umber of (SECTION CAUSED SECTION TO BE SELECTED	Merger Merger Merger Merger Merger	
	FILES			Merger Merger	
UNIT	DESCRIPT			Merger	
	TNDIIT CAI		- 80 CHARACTERS/RECORD)	Merger Merger	
		•	/B DATA FILES (BCD - 80 CHARACTERS/RECORD)	-	
OUTPUT	r FILES			Merger Merger	
				Merger	
UNIT	DESCRIPT			Merger Merger	
3 OUTPUT REPORT LISTING (BCD - 120 CHARACTERS/RECORD)					
10	MERGED EI	NDF/B DATA	A (BCD - 80 CHARACTERS/RECORD)	Merger Merger	
			NAMES (SEE SUBROUTINES FILIO1 AND FILIO2)	Merger	
	FILE NAM		IPTION	Merger Merger	
				Merger	
			PARAMETERS	Merger	
	MERGER.LS		T LISTING EVED ENDF/B DATA	Merger Merger	
12	ENDFB.IN		B DATA TO READFILENAMES WILL BE DEFINED	_	
13			E ORDER ENDFB.IN1, ENDFB.IN2,ENDFB.I99	Merger	
	ENDFB.IN	_	SPONDING TO THE FIRST, SECOND,99-TH B DATA FILE TO READ.	Merger Merger	
	ENDFB.IN	_	5 51111 1122 10 10ab.	Merger	
	ENDFB.IN			Merger	
18	ENDFB.IN	7		Merger	
				Merger Merger	
110	ENDFB.19	9		Merger	
TNDIII				LICEGUL	
	T CABDS			Merger	
	r cards				
CARD	COLUMNS	FORMAT	DESCRIPTION	Merger Merger Merger Merger	
CARD	COLUMNS			Merger Merger Merger Merger Merger	
CARD	COLUMNS			Merger Merger Merger Merger	
CARD	COLUMNS 1-72		FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL	Merger Merger Merger Merger Merger Merger Merger Merger	
CARD	COLUMNS 1-72	A72	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT)	Merger Merger Merger Merger Merger Merger Merger Merger	
CARD	COLUMNS 1-72	A72	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER	Merger Merger Merger Merger Merger Merger Merger Merger Merger	
CARD	COLUMNS 1-72 1-66	A72	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER IF ZERO - NUMBER OF FIRST FILE READ WILL	Merger Merger Merger Merger Merger Merger Merger Merger Merger Merger Merger	
CARD	COLUMNS 1-72 1-66	A72 16A4,A2	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER	Merger Merger Merger Merger Merger Merger Merger Merger Merger Merger	
CARD	COLUMNS 1-72 1-66	A72 16A4,A2	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER IF ZERO - NUMBER OF FIRST FILE READ WILL BE OUTPUT. RETRIEVAL CRITERIA = 0 - MAT/MF/MT RANGES	Merger	
CARD 1 2	COLUMNS 1-72 1-66 67-70 71-72	A72 16A4,A2 14	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER IF ZERO - NUMBER OF FIRST FILE READ WILL BE OUTPUT. RETRIEVAL CRITERIA = 0 - MAT/MF/MT RANGES = 1 - ZA/MF/MT RANGES	Merger	
CARD 1 2	COLUMNS 1-72 1-66	A72 16A4,A2 14	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER IF ZERO - NUMBER OF FIRST FILE READ WILL BE OUTPUT. RETRIEVAL CRITERIA = 0 - MAT/MF/MT RANGES	Merger	
CARD 1 2	COLUMNS 1-72 1-66 67-70 71-72	A72 16A4,A2 14	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER IF ZERO - NUMBER OF FIRST FILE READ WILL BE OUTPUT. RETRIEVAL CRITERIA = 0 - MAT/MF/MT RANGES = 1 - ZA/MF/MT RANGES FILENAME FOR FILE TO RETRIEVE DATA FROM (LEAVE BLANK FOR STANDARDENDFB.IN1,ETC.) TERMINATE LIST OF FILES WITH A LINE THAT	Merger	
CARD 1 2	COLUMNS 1-72 1-66 67-70 71-72	A72 16A4,A2 14 12 A72	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER IF ZERO - NUMBER OF FIRST FILE READ WILL BE OUTPUT. RETRIEVAL CRITERIA = 0 - MAT/MF/MT RANGES = 1 - ZA/MF/MT RANGES FILENAME FOR FILE TO RETRIEVE DATA FROM (LEAVE BLANK FOR STANDARDENDFB.IN1,ETC.) TERMINATE LIST OF FILES WITH A LINE THAT SAYS END OR end	Merger	
CARD 1 2	COLUMNS 1-72 1-66 67-70 71-72	A72 16A4,A2 14	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER IF ZERO - NUMBER OF FIRST FILE READ WILL BE OUTPUT. RETRIEVAL CRITERIA = 0 - MAT/MF/MT RANGES = 1 - ZA/MF/MT RANGES FILENAME FOR FILE TO RETRIEVE DATA FROM (LEAVE BLANK FOR STANDARDENDFB.IN1,ETC.) TERMINATE LIST OF FILES WITH A LINE THAT	Merger	
CARD 1 2	COLUMNS 1-72 1-66 67-70 71-72 1-72 1-6 7-8 9-11	A72 16A4,A2 14 12 A72 16 12 13	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER IF ZERO - NUMBER OF FIRST FILE READ WILL BE OUTPUT. RETRIEVAL CRITERIA = 0 - MAT/MF/MT RANGES = 1 - ZA/MF/MT RANGES FILENAME FOR FILE TO RETRIEVE DATA FROM (LEAVE BLANK FOR STANDARDENDFB.IN1,ETC.) TERMINATE LIST OF FILES WITH A LINE THAT SAYS END OR end LOWER PRIMARY LIMIT (MAT OR ZA) LOWER MF LIMIT	Merger	
CARD 1 2	COLUMNS 1-72 1-66 67-70 71-72 1-72 1-6 7-8 9-11 12-17	A72 16A4,A2 14 12 A72 16 12 13 16	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER IF ZERO - NUMBER OF FIRST FILE READ WILL BE OUTPUT. RETRIEVAL CRITERIA = 0 - MAT/MF/MT RANGES = 1 - ZA/MF/MT RANGES FILENAME FOR FILE TO RETRIEVE DATA FROM (LEAVE BLANK FOR STANDARDENDFB.IN1,ETC.) TERMINATE LIST OF FILES WITH A LINE THAT SAYS END OR end LOWER PRIMARY LIMIT (MAT OR ZA) LOWER MF LIMIT LOWER MT LIMIT UPPER PRIMARY LIMIT (MAT OR ZA)	Merger	
CARD 1 2	COLUMNS 1-72 1-66 67-70 71-72 1-72 1-6 7-8 9-11	A72 16A4,A2 14 12 A72 16 12 13	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER IF ZERO - NUMBER OF FIRST FILE READ WILL BE OUTPUT. RETRIEVAL CRITERIA = 0 - MAT/MF/MT RANGES = 1 - ZA/MF/MT RANGES FILENAME FOR FILE TO RETRIEVE DATA FROM (LEAVE BLANK FOR STANDARDENDFB.IN1,ETC.) TERMINATE LIST OF FILES WITH A LINE THAT SAYS END OR end LOWER PRIMARY LIMIT (MAT OR ZA) LOWER MF LIMIT	Merger	
CARD 1 2	COLUMNS 1-72 1-66 67-70 71-72 1-72 1-6 7-8 9-11 12-17 18-19	A72 16A4,A2 14 12 A72 16 12 13 16 12	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER IF ZERO - NUMBER OF FIRST FILE READ WILL BE OUTPUT. RETRIEVAL CRITERIA = 0 - MAT/MF/MT RANGES = 1 - ZA/MF/MT RANGES FILENAME FOR FILE TO RETRIEVE DATA FROM (LEAVE BLANK FOR STANDARDENDFB.IN1,ETC.) TERMINATE LIST OF FILES WITH A LINE THAT SAYS END OR end LOWER PRIMARY LIMIT (MAT OR ZA) LOWER MF LIMIT LOWER MF LIMIT UPPER PRIMARY LIMIT (MAT OR ZA) UPPER MF LIMIT	Merger	
CARD 1 2	COLUMNS 1-72 1-66 67-70 71-72 1-72 1-6 7-8 9-11 12-17 18-19	A72 16A4,A2 14 12 A72 16 12 13 16 12	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER IF ZERO - NUMBER OF FIRST FILE READ WILL BE OUTPUT. RETRIEVAL CRITERIA = 0 - MAT/MF/MT RANGES = 1 - ZA/MF/MT RANGES FILENAME FOR FILE TO RETRIEVE DATA FROM (LEAVE BLANK FOR STANDARDENDFB.IN1,ETC.) TERMINATE LIST OF FILES WITH A LINE THAT SAYS END OR end LOWER PRIMARY LIMIT (MAT OR ZA) LOWER MT LIMIT UPPER MT LIMIT UPPER MT LIMIT UPPER MT LIMIT UPPER MT LIMIT RANGES OF MAT/MF/MT OR ZA/MF/MT TO BE RETRIEVED ARE SPECIFIED BY DEFINING	Merger	
CARD 1 2	COLUMNS 1-72 1-66 67-70 71-72 1-72 1-6 7-8 9-11 12-17 18-19	A72 16A4,A2 14 12 A72 16 12 13 16 12	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER IF ZERO - NUMBER OF FIRST FILE READ WILL BE OUTPUT. RETRIEVAL CRITERIA = 0 - MAT/MF/MT RANGES = 1 - ZA/MF/MT RANGES FILENAME FOR FILE TO RETRIEVE DATA FROM (LEAVE BLANK FOR STANDARDENDFB.IN1,ETC.) TERMINATE LIST OF FILES WITH A LINE THAT SAYS END OR end LOWER MF LIMIT LOWER MF LIMIT LOWER MT LIMIT UPPER MT LIMIT UPPER MT LIMIT RANGES OF MAT/MF/MT OR ZA/MF/MT TO BE RETRIEVED ARE SPECIFIED BY DEFINING ONE RANGE (LOWER AND UPPER LIMITS) PER	Merger	
CARD 1 2	COLUMNS 1-72 1-66 67-70 71-72 1-72 1-6 7-8 9-11 12-17 18-19	A72 16A4,A2 14 12 A72 16 12 13 16 12	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER IF ZERO - NUMBER OF FIRST FILE READ WILL BE OUTPUT. RETRIEVAL CRITERIA = 0 - MAT/MF/MT RANGES = 1 - ZA/MF/MT RANGES FILENAME FOR FILE TO RETRIEVE DATA FROM (LEAVE BLANK FOR STANDARDENDFB.IN1,ETC.) TERMINATE LIST OF FILES WITH A LINE THAT SAYS END OR end LOWER PRIMARY LIMIT (MAT OR ZA) LOWER MT LIMIT UPPER MT LIMIT UPPER MT LIMIT UPPER MT LIMIT UPPER MT LIMIT RANGES OF MAT/MF/MT OR ZA/MF/MT TO BE RETRIEVED ARE SPECIFIED BY DEFINING	Merger	
CARD 1 2	COLUMNS 1-72 1-66 67-70 71-72 1-72 1-6 7-8 9-11 12-17 18-19	A72 16A4,A2 14 12 A72 16 12 13 16 12	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER IF ZERO - NUMBER OF FIRST FILE READ WILL BE OUTPUT. RETRIEVAL CRITERIA = 0 - MAT/MF/MT RANGES = 1 - ZA/MF/MT RANGES FILENAME FOR FILE TO RETRIEVE DATA FROM (LEAVE BLANK FOR STANDARDENDFB.IN1,ETC.) TERMINATE LIST OF FILES WITH A LINE THAT SAYS END OR end LOWER MF LIMIT LOWER MF LIMIT LOWER MF LIMIT UPPER PRIMARY LIMIT (MAT OR ZA) UPPER MF LIMIT UPPER MT LIMIT UPPER MT LIMIT COMER AND UPPER LIMITS) CARD. THE USER MAY SPECIFY 0 TO 100 RANGES AND THE LIST OF REQUEST RANGES IS TERMINATED BY A BLANK CARD. IF	Merger	
CARD 1 2	COLUMNS 1-72 1-66 67-70 71-72 1-72 1-6 7-8 9-11 12-17 18-19	A72 16A4,A2 14 12 A72 16 12 13 16 12	FILENAME FOR MERGED OUTPUT. (LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL BE OUTPUT MERGED FILE ENDF/B NUMBER IF ZERO - NUMBER OF FIRST FILE READ WILL BE OUTPUT. RETRIEVAL CRITERIA = 0 - MAT/MF/MT RANGES = 1 - ZA/MF/MT RANGES FILENAME FOR FILE TO RETRIEVE DATA FROM (LEAVE BLANK FOR STANDARDENDFB.IN1,ETC.) TERMINATE LIST OF FILES WITH A LINE THAT SAYS END OR end LOWER PRIMARY LIMIT (MAT OR ZA) LOWER MF LIMIT LOWER MT LIMIT UPPER MT LIMIT UPPER MT LIMIT UPPER MT LIMIT ONE RANGES OF MAT/MF/MT OR ZA/MF/MT TO BE RETRIEVED ARE SPECIFIED BY DEFINING ONE RANGE (LOWER AND UPPER LIMITS) PER CARD. THE USER MAY SPECIFY 0 TO 100 RANGES AND THE LIST OF REQUEST RANGES	Merger	

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PRIMARY CRITERIA (MAT OR ZA) IS LESS THAN Merger
                         THE LOWER PRIMARY CRITERIA, THE UPPER
                                                                      Merger
                         PRIMARY CRITERIA WILL BE SET EQUAL TO
                                                                      Merger
                         THE LOWER PRIMARY CRITERIA. IF THE UPPER
                                                                      Merger
                         MF OR MT LIMIT IS ZERO, OR BLANK, IT
                                                                      Merger
                         WILL BE SET TO THE MAXIMUM POSSIBLE
                                                                      Merger
                         VALUE, I.E. MF=99 OR MT=999 (SEE
                                                                      Merger
                         EXAMPLE INPUT).
                                                                      Merger
                                                                      Merger
EXAMPLE INPUT NO. 1
                                                                      Merger
                                                                      Merger
MERGE ENDF/B DATA ONTO UNIT 10 FROM UNITS 11, 12, 13 AND 14.
                                                                      Merger
RETRIEVE DATA BY MAT NUMBER. RETRIEVE MATS 1103, 1106, ALL MATS
                                                                      Merger
BETWEEN 1204 AND 1215, MF=1, 3, 4 AND 5 OF MAT 1219 AND MF=3,
                                                                      Merger
MT=1 OF MAT 1304. USE STANDARD FILENAMES.
                                                                      Merger
                                                                      Merger
 THE FOLLOWING 13 INPUT CARDS ARE REQUIRED.
                                                                      Merger
                                                                      Merger
ENDFB.OUT
                                                                      Merger
EXAMPLE FILE LABEL FOR MERGER
                                                                  0 0 Merger
ENDER IN1
                                                                      Merger
ENDFB.IN2
                                                                      Merger
ENDFB.IN3
                                                                      Merger
ENDFB.IN4
END
                                                                      Merger
 1103
                             4317 (UPPER LIMIT SET TO 1103/99/999) Merger
  1106
                             4317
                                    (UPPER LIMIT SET TO 1106/99/999) Merger
                             4317 (UPPER LIMIT SET TO 1215/99/999) Merger
 1204
             1215
 1219 1
             1219 1
                             4317 (UPPER LIMIT SET TO 1219/ 1/999) Merger
                             4317 (UPPER LIMIT SET TO 1219/ 5/999) Merger
4317 (UPPER LIMIT COMPLETELY DEFINED) Margar
 1219 3
             1219 5
 1304 3 1 1304 3 1
                                    (BLANK CARD TERMINATES REQUESTS) Merger
                                                                      Merger
 EXAMPLE INPUT NO. 2
                                                                      Merger
                                                                      Merger
 THE SAME AS EXAMPLE 1, EXCEPT SPECIFY FILENAMES
                                                                      Merger
                                                                      Merger
\ENDFB6\MERGED.LIB
                                                                      Merger
                                                                  0 0 Merger
EXAMPLE FILE LABEL FOR MERGER
ENDFB6.PART1
                                                                      Merger
ENDFB6.PART2
                                                                      Merger
ENDFB6.PART3
                                                                      Merger
ENDFB6.PART4
                                                                      Merger
END
                                                                      Merger
 1103
                             4317 (UPPER LIMIT SET TO 1103/99/999) Merger
 1106
                             4317 (UPPER LIMIT SET TO 1106/99/999) Merger
 1204
             1215
                             4317 (UPPER LIMIT SET TO 1215/99/999) Merger
                             4317 (UPPER LIMIT SET TO 1219/ 1/999) Merger
4317 (UPPER LIMIT SET TO 1219/ 5/999) Merger
 1219 1
             1219 1
 1219 3
             1219 5
 1304 3 1 1304 3 1
                             4317 (UPPER LIMIT COMPLETELY DEFINED) Merger
                                    (BLANK CARD TERMINATES REQUESTS) Merger
```

====== Merger