PROGRAM				Mer Mer
	MERGE	lR.		Mer
		:=		Mer
VERSION	80-1	(JANUARY 198	80)	Mer
VERSION	80-2	(DECEMBER 19	980)	Mer
VERSION	82-1	(JANUARY 198	82)	Mer
VERSION	83-1	(JANUARY 198	83) *NEW, MORE COMPATIBLE I/O UNIT NUMBERS.	Mer
VERSION	85-1	(AUGUST 1985	5) *FORTRAN-77/H VERSION	Mer
VERSION	86-1	(JANUARY 198	86) *ENDF/B-VI FORMATS	Mer
VERSION	88-1	(JULY 1988)	*OPTIONINTERNALLY DEFINE ALL I/O	Mer
			FILE NAMES (SEE, SUBROUTINES FILIO1	Mer
			AND FILIO2 FOR DETAILS).	Mer
			*IMPROVED BASED ON USER COMMENTS.	Mer
VERSION	89-1	(JANUARY 198	89) *PSYCHOANALYZED BY PROGRAM FREUD TO	Mer
			INSURE PROGRAM WILL NOT DO ANYTHING	Mer
			CRAZY.	Mer
			*UPDATED TO USE NEW PROGRAM CONVERT	Mer
			KEYWORDS.	Mer
			*ADDED LIVERMORE CIVIC COMPILER	Mer
			CONVENTIONS.	Mer
VERSION	92-1	(JANUARY 199	92) *UPDATED BASED ON USER COMMENTS	Mer
			*ADDED FORTRAN SAVE OPTION	Mer
VERSION	92-2	(JULY 1992)	*ALLOW UP TO 99 ENDF/B DATA FILES.	Mer
			(TO ALLOW MANAGEMENT OF THE ENTIRE	Mer
			ENDF/B SYSTEM).	Mer
VERSION	94-1	(JANUARY 199	94) *VARIABLE ENDF/B DATA FILENAMES	Mer
			TO ALLOW ACCESS TO FILE STRUCTURES	Mer
			(WARNING - INPUT PARAMETER FORMAT	Mer
			HAS BEEN CHANGED)	Mer
			*ONLY SPECIFY FILENAMES - NO UNIT	Mer
			NUMBERS ON INPUT (WARNING - INPUT	Mer
			PARAMETERS FORMAT HAS BEEN CHANGED)	Mer
			*CLOSE ALL FILES BEFORE TERMINATING	Mer
			(SEE, SUBROUTINE ENDIT)	Mer
			*REQUEST LOG DELETED	Mer
VERSION	96-1	(JANUARY 199	96) *COMPLETE RE-WRITE	Mer
			*IMPROVED COMPUTER INDEPENDENCE	Mer
			*ALL DOUBLE PRECISION	Mer
			*ON SCREEN OUTPUT	Mer
			*UNIFORM TREATMENT OF ENDF/B I/O	Mer
			*IMPROVED OUTPUT PRECISION	Mer
VERSION	99-1	(MARCH 1999)	) *GENERAL IMPROVEMENTS BASED ON	
VERSION	99-1	(MARCH 1999)	) *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK	Mer
				Mer Mer
			USER FEEDBACK	Mer Mer Mer
VERS. 2	000-1		USER FEEDBACK 000)*GENERAL IMPROVEMENTS BASED ON	Mer Mer Mer
VERS. 2	000-1	(FEBRUARY 20	USER FEEDBACK 000)*GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS	Mer Mer Mer Mer Mer
VERS. 2	000-1	(FEBRUARY 20 (MAY 2002)	USER FEEDBACK 000)*GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS	Mer Mer Mer Mer Mer
VERS. 2 VERS. 2 VERS. 2	000-1 002-1 004-1	(FEBRUARY 20 (MAY 2002)	USER FEEDBACK 000)*GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS ) *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED	Men Men Men Men Men Men
VERS. 2 VERS. 2 VERS. 2 VERS. 2	000-1 002-1 004-1 007-1	(FEBRUARY 20 (MAY 2002) (MARCH 2004)	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON USER FEEDBACK  *OPTIONAL INPUT PARAMETERS  *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED  CHECKED AGAINST ALL ENDF/B-VII.	Men Men Men Men Men Men Men
VERS. 2 VERS. 2 VERS. 2 VERS. 2	000-1 002-1 004-1 007-1	(FEBRUARY 20 (MAY 2002) (MARCH 2004) (JAN. 2007)	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON USER FEEDBACK  *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 Mer Mer Mer Mer
VERS. 2 VERS. 2 VERS. 2 VERS. 2	000-1 002-1 004-1 007-1 007-2	(FEBRUARY 20 (MAY 2002) (MARCH 2004) (JAN. 2007)	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON USER FEEDBACK  *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 Mer Mer Mer
VERS. 2 VERS. 2 VERS. 2 VERS. 2 VERS. 2	000-1 002-1 004-1 007-1 007-2 010-1	(FEBRUARY 20 (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007)	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Mer Mer Mer Mer Mer Mer Mer Mer Mer Mer
VERS. 2 VERS. 2 VERS. 2 VERS. 2 VERS. 2	000-1 002-1 004-1 007-1 007-2 010-1	(FEBRUARY 20 (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010)	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Mer Mer Mer Mer Mer Mer Mer Mer Mer Mer
VERS. 2 VERS. 2 VERS. 2 VERS. 2 VERS. 2	000-1 002-1 004-1 007-1 007-2 010-1	(FEBRUARY 20 (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010)	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Mer Mer Mer Mer Mer Mer Mer Mer Mer Mer
VERS. 2 VERS. 2 VERS. 2 VERS. 2 VERS. 2 VERS. 2	000-1 002-1 004-1 007-1 007-2 010-1 012-1	(FEBRUARY 20 (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012)	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Mer Mer Mer Mer Mer Mer Mer Mer Mer Mer
VERS. 2 VERS. 2 VERS. 2 VERS. 2 VERS. 2 VERS. 2	000-1 002-1 004-1 007-1 007-2 010-1 012-1	(FEBRUARY 20 (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010)	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Men
VERS. 2	000-1 002-1 004-1 007-1 007-2 010-1 012-1	(FEBRUARY 20 (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012)	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Mer
VERS. 2 VERS. 2 VERS. 2 VERS. 2 VERS. 2 VERS. 2	000-1 002-1 004-1 007-1 007-2 010-1 012-1 015-1 MAINTA	(FEBRUARY 20 (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012)	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Mer Mer Mer Mer Mer Mer Mer Mer Mer Mer
VERS. 2	000-1 002-1 004-1 007-1 007-2 010-1 012-1 015-1 MAINTA	(FEBRUARY 2002) (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015)	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Mer
VERS. 2 OWNED, THE NUC	000-1 002-1 004-1 007-1 007-2 010-1 012-1 015-1 MAINTA	(FEBRUARY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015)	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Mer
VERS. 2 OWNED, THE NUC	000-1 002-1 004-1 007-1 007-2 010-1 012-1 015-1 MAINTA  LEAR D	(FEBRUARY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015) AINED AND DIS	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Mer
VERS. 2  VERS. 2  VERS. 2  VERS. BO	000-1 002-1 004-1 007-1 007-2 010-1 015-1 MAINTA  LEAR D TIONAL X 100	(FEBRUARY 20 (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015) AINED AND DISC ATA SECTION ATOMIC ENERGY	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Mer
VERS. 2  VERS. 2  VERS. 2  VERS. BO	000-1 002-1 004-1 007-1 007-2 010-1 015-1 MAINTA  LEAR D TIONAL X 100	(FEBRUARY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015) AINED AND DIS	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Mer
VERS. 2  VERS. 2  VERS. BOAL ALLOW	000-1 002-1 004-1 007-1 007-2 010-1 015-1 MAINTA  LEAR D TIONAL X 100	(FEBRUARY 20 (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015) AINED AND DISC ATA SECTION ATOMIC ENERGY	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Mer
VERS. 2 THE NUC THE THE NUC THE THE NUC A-1400, EUROPE	000-1 002-1 004-1 007-1 007-2 010-1 012-1 015-1 MAINTA  LEAR D TIONAL X 100 VIENN	(FEBRUARY 20 (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015) AINED AND DISC ATA SECTION ATOMIC ENERGY	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Mer
VERS. 2 VERS. 1 VERS. 2	000-1 002-1 004-1 007-1 007-2 010-1 015-1 MAINTA  LLEAR D TIONAL X 100 VIENN LLY WR	(FEBRUARY 20 (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015) AINED AND DISTRIBUTION ATA SECTION ATOMIC ENERGIAL	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Mer
VERS. 2  VERS. 0  V	000-1 002-1 004-1 007-1 007-2 010-1 015-1 MAINTA  LEAR D TIONAL X 100 VIENN LLY WR	(FEBRUARY 20 (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015) AINED AND DIS AINED AND DIS ATA SECTION ATOMIC ENER IA, AUSTRIA	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Mer
VERS. 2 VERS. 1 VERS. 2	000-1 002-1 004-1 007-1 007-2 010-1 015-1 MAINTA  LEAR D TIONAL X 100 VIENN LLY WR	(FEBRUARY 20 (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015) AINED AND DIS AINED AND DIS ATA SECTION ATOMIC ENER IA, AUSTRIA	USER FEEDBACK  000)*GENERAL IMPROVEMENTS BASED ON	Mer Mer Mer Mer Mer Mer Mer Mer Mer

\_\_\_\_\_ Merger Dermott E. Cullen Merger 1466 Hudson Way Merger Livermore, CA 94550 Merger U.S.A. Merger Telephone 925-443-1911 Merger E. Mail RedCullen1@Comcast.net Merger Website http://home.comcast.net/~redcullen1 Merger Merger AUTHORS MESSAGE Merger THE COMMENTS BELOW SHOULD BE CONSIDERED THE LATEST DOCUMENTATION FOR THIS PROGRAM INCLUDING ALL RECENT IMPROVEMENTS. PLEASE READ Merger ALL OF THESE COMMENTS BEFORE IMPLEMENTATION, PARTICULARLY THE Merger COMMENTS CONCERNING MACHINE DEPENDENT CODING. Merger Merger AT THE PRESENT TIME WE ARE ATTEMPTING TO DEVELOP A SET OF COMPUTER Merger INDEPENDENT PROGRAMS THAT CAN EASILY BE IMPLEMENTED ON ANY ONE Merger 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 COMPILER DIAGNOSTICS, OPERATING PROBLEMS OR SUGGESTIONS ON HOW TO Merger IMPROVE THIS PROGRAM. HOPEFULLY, IN THIS WAY FUTURE VERSIONS OF THIS PROGRAM WILL BE COMPLETELY COMPATIBLE FOR USE ON YOUR Merger COMPUTER. Merger PURPOSE 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 Merger SINGLE MAT/MF/MT ORDERED FINAL OUTPUT FILE. Merger IN THE DISCUSSION THAT FOLLOWS FOR SIMPLICITY THE ENDF/B Merger TERMINOLOGY---ENDF/B TAPE---WILL BE USED. IN FACT THE ACTUAL MEDIUM USED MAY BE TAPE, CARD, DISK OR ANY OTHER MEDIUM. Merger Merger ENDF/B FORMAT Merger Merger THIS PROGRAM ONLY USES THE ENDF/B BCD OR CARD IMAGE FORMAT (AS 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). THE ONLY NUMERICAL DATA THAT THIS PROGRAM READS IS THE ZA FROM THE Merger 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 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 Merger NUMBERS (COLUMNS 76-80) ARE IGNORED ON INPUT, BUT WILL BE Merger CORRECTLY OUTPUT ON ALL CARDS. Merger 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 CROSS SECTION MAY BE DESCRIBED BY 200,000 DATA POINTS. Merger Merger SELECTION OF DATA Merger THE USER MAY CHOOSE TO MERGE ALL DATA OR THE USER MAY SPECIFY Merger THAT ONLY CERTAIN DATA SHOULD BE SELECTED. THE DATA TO BE 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 OF MAT/MF/MT OR ZA/MF/MT. Merger Merger REQUEST LIMITS Merger

IN ORDER TO SIMPLIFY THE INPUT OF SELECTION REQUESTS THE FOLLOWING Merger

CONVENTIONS HAVE BEEN INTRODUCED IN ORDER TO DEFINE THE UPPER

Merger

LIMITS OF REQUESTS IF THEY ARE NOT DEFINED BY INPUT (I.E., IF THEY Merger ARE ZERO). Merger

- (1) MAT OR ZA IF THE UPPER LIMIT IS ZERO IT IS SET EQUAL TO THE Merger 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 Merger 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 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 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
- (2) MAT
- (3) MF
- (4) MT

Merger Merger

Merger

Merger

Merger

Merger

Merger

Merger

Merger Merger

Merger

Merger

Merger

Merger

Merger

Merger

Merger

Merger

Merger

Merger

Merger

(5) NUMBER OF CARDS IN SECTION IN (6) REQUEST NUMBER THAT CAUSED SECTION TO BE SELECTED IN (7) PROPERTY OF THE PROPERTY OF T							
INPUT FILES							
	INPUT FILES						
UNIT	UNIT DESCRIPTION						
2 INPUT CARDS (BCD - 80 CHARACTERS/RECORD)							
			/B DATA FILES (BCD - 80 CHARACTERS/RECORD)	Merger Merger			
OHERDH				Merger Merger			
OUTPUT FILES							
3 OUTPUT REPORT LISTING (BCD - 120 CHARACTERS/RECORD)							
10 MERGED ENDF/B DATA (BCD - 80 CHARACTERS/RECORD)							
0.000.00	13.1 003310.1		NAMES (OFF SUPPOSETINGS FILTS) AND FILTS)	Merger Merger			
	FILE NAME			Merger Merger			
				Merger			
2	MERGER.IN		PARAMETERS	Merger			
11			EVED ENDF/B DATA	Merger Merger			
12			B DATA TO READFILENAMES WILL BE DEFINED	_			
13	ENDFB.IN2		E ORDER ENDFB.IN1, ENDFB.IN2,ENDFB.I99	Merger			
14 15	ENDFB.IN3		SPONDING TO THE FIRST, SECOND,99-TH	Merger			
	ENDFB.INS		B DATA FILE TO READ.	Merger Merger			
17	ENDFB.IN6			Merger			
18	ENDFB.IN7	7		Merger			
	•			Merger			
110	ENDFB.199	)		Merger Merger			
				Merger			
	CARDS			Merger			
	COLUMNS	E∪DM7.T	DESCRIPTION	Merger Merger			
				Merger			
1	1-72	A72	FILENAME FOR MERGED OUTPUT.	Merger			
2	1 66	1634 30	(LEAVE BLANK FOR STANDARD = ENDFB.OUT)	Merger			
2	1-00	16A4,AZ	MERGED FILE LABEL IF BLANK - LABEL FROM FIRST FILE READ WILL	Merger			
			BE OUTPUT	Merger			
	67-70	I4	MERGED FILE ENDF/B NUMBER	Merger			
			IF ZERO - NUMBER OF FIRST FILE READ WILL BE OUTPUT.	Merger			
	71-72	12	RETRIEVAL CRITERIA	Merger Merger			
			= 0 - MAT/MF/MT RANGES	Merger			
			= 1 - ZA/MF/MT RANGES	Merger			
3-N	1-72	A72	FILENAME FOR FILE TO RETRIEVE DATA FROM	Merger			
			(LEAVE BLANK FOR STANDARDENDFB.IN1,ETC.) TERMINATE LIST OF FILES WITH A LINE THAT	Merger			
			SAYS END OR end	Merger			
VARY		I6	LOWER PRIMARY LIMIT (MAT OR ZA)	Merger			
	7- 8 9-11	I2 I3	LOWER MF LIMIT LOWER MT LIMIT	Merger Merger			
	12-17	I6	UPPER PRIMARY LIMIT (MAT OR ZA)	Merger			
	18-19	I2	UPPER MF LIMIT	Merger			
	20-22	13	UPPER MT LIMIT	Merger			
			RANGES OF MAT/MF/MT OR ZA/MF/MT TO BE RETRIEVED ARE SPECIFIED BY DEFINING	Merger Merger			
			ONE RANGE (LOWER AND UPPER LIMITS) PER	Merger			
			CARD. THE USER MAY SPECIFY 0 TO 100	Merger			
			RANGES AND THE LIST OF REQUEST RANGES	Merger			
			IS TERMINATED BY A BLANK CARD. IF THE FIRST CARD IS BLANK (0 REQUESTS)	Merger Merger			
			ALL DATA WILL BE RETRIEVED. IF THE UPPER	Merger			
			PRIMARY CRITERIA (MAT OR ZA) IS LESS THAN				
			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
 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
ENDEB.OUT
                                                                       Merger
EXAMPLE FILE LABEL FOR MERGER
                                                                   0 0 Merger
ENDFB.IN1
                                                                       Merger
ENDFB. IN2
                                                                       Merger
ENDFB.IN3
                                                                       Merger
ENDFB.IN4
                                                                       Merger
END
                             4317 (UPPER LIMIT SET TO 1103/99/999) Merger
4317 (UPPER LIMIT SET TO 1106/99/999) Merger
  1103
  1106
                                    (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) Merger
  1219 3
             1219 5
  1304 3 1 1304 3 1
                                    (BLANK CARD TERMINATES REQUESTS) Merger
                                                                       Merger
EXAMPLE INPUT NO. 2
                                                                       Merger
 THE SAME AS EXAMPLE 1, EXCEPT SPECIFY FILENAMES
                                                                       Merger
                                                                       Merger
\ENDFB6\MERGED.LIB
                                                                       Merger
EXAMPLE FILE LABEL FOR MERGER
                                                                   0 0 Merger
ENDER6 PART1
                                                                       Merger
ENDFB6.PART2
ENDFB6.PART3
                                                                       Merger
ENDFB6.PART4
END
                            4317 (UPPER LIMIT SET TO 1103/99/999) Merger
  1103
  1106
                            4317 (UPPER LIMIT SET TO 1106/99/999) Merger
                            4317 (UPPER LIMIT SET TO 1215/99/999) Merger
  1204
             1215
                           4317 (UPPER LIMIT SET TO 1219/ 1/999) Merger
4317 (UPPER LIMIT SET TO 1219/ 5/999) Merger
  1219 1
             1219 5
             1219 1
  1219 3
  1304 3 1 1304 3 1
                           4317 (UPPER LIMIT COMPLETELY DEFINED) Merger
                                    (BLANK CARD TERMINATES REQUESTS) Merger
                                                                       Merger
```

----- Merger