PROGRAM MERC	ER	
	:==	
VERSION 80-1	(JANUARY 1980)	
VERSION 80-2	(DECEMBER 1980))
VERSION 82-1	(JANUARY 1982))
VERSION 83-1	(JANUARY 1983)	*NEW, MORE COMPATIBLE I/O UNIT NUMBERS.
VERSION 85-1	(AUGUST 1985)	*FORTRAN-77/H VERSION
VERSION 86-1	(JANUARY 1986)	*ENDF/B-VI FORMATS
VERSION 88-1	. (JULY 1988)	*OPTIONINTERNALLY DEFINE ALL I/O
		FILE NAMES (SEE, SUBROUTINES FILIO1
		AND FILIO2 FOR DETAILS).
		*IMPROVED BASED ON USER COMMENTS.
VERSION 89-1	(JANUARY 1989)	*PSYCHOANALYZED BY PROGRAM FREUD TO
		INSURE PROGRAM WILL NOT DO ANYTHING
		CRAZY.
		*UPDATED TO USE NEW PROGRAM CONVERT
		KEYWORDS.
		*ADDED LIVERMORE CIVIC COMPILER
		CONVENTIONS.
VERSION 92-1	(JANUARY 1992)	*UPDATED BASED ON USER COMMENTS
		*ADDED FORTRAN SAVE OPTION
VERSION 92-2	(JULY 1992)	*ALLOW UP TO 99 ENDF/B DATA FILES.
		(TO ALLOW MANAGEMENT OF THE ENTIRE
		ENDF/B SYSTEM).
VERSION 94-1	(JANUARY 1994)	*VARIABLE ENDF/B DATA FILENAMES
		TO ALLOW ACCESS TO FILE STRUCTURES
		(WARNING - INPUT PARAMETER FORMAT
		HAS BEEN CHANGED)
		*ONLY SPECIFY FILENAMES - NO UNIT
		NUMBERS ON INPUT (WARNING - INPUT
		PARAMETERS FORMAT HAS BEEN CHANGED)
		*CLOSE ALL FILES BEFORE TERMINATING
		(SEE, SUBROUTINE ENDIT)
	(1000)	*REQUEST LOG DELETED
VERSION 96-1	(JANUARY 1996)	
		*IMPROVED COMPUTER INDEPENDENCE
		*ALL DOUBLE PRECISION
		*ON SCREEN OUTPUT
		*UNIFORM TREATMENT OF ENDF/B I/O *IMPROVED OUTPUT PRECISION
	(MADCH 1000)	*IMPROVED OUTPUT PRECISION *GENERAL IMPROVEMENTS BASED ON
VEDGTON 00 1		
VERSION 99-1	. (MARCH 1999)	
		USER FEEDBACK
		USER FEEDBACK))*GENERAL IMPROVEMENTS BASED ON
VERS. 2000-1	(FEBRUARY 2000	USER FEEDBACK))*GENERAL IMPROVEMENTS BASED ON USER FEEDBACK
VERS. 2000-1 VERS. 2002-1	(FEBRUARY 2000	USER FEEDBACK))*GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS
VERS. 2000-1 VERS. 2002-1	(FEBRUARY 2000	USER FEEDBACK))*GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON
VERS. 2000-1 VERS. 2002-1 VERS. 2004-1	(FEBRUARY 2000 (MAY 2002) (MARCH 2004)	USER FEEDBACK) *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS *ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED
VERS. 2000-1 VERS. 2002-1 VERS. 2004-1 VERS. 2007-1	(FEBRUARY 2000) (MAY 2002) (MARCH 2004) (JAN. 2007)	USER FEEDBACK))*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.
VERS. 2000-1 VERS. 2002-1 VERS. 2004-1 VERS. 2007-1	(FEBRUARY 2000) (MAY 2002) (MARCH 2004) (JAN. 2007)	USER FEEDBACK))*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.
VERS. 2000-1 VERS. 2002-1 VERS. 2004-1 VERS. 2007-1 VERS. 2007-2	(FEBRUARY 2000) (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007)	USER FEEDBACK))*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.
VERS. 2000-1 VERS. 2002-1 VERS. 2004-1 VERS. 2007-1 VERS. 2007-2 VERS. 2010-1	(FEBRUARY 2000) (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010)	USER FEEDBACK))*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. *General update based on user feedback
VERS. 2000-1 VERS. 2002-1 VERS. 2004-1 VERS. 2007-1 VERS. 2007-2 VERS. 2010-1	(FEBRUARY 2000) (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007)	USER FEEDBACK))*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. *General update based on user feedback *Added CODENAME
VERS. 2000-1 VERS. 2002-1 VERS. 2004-1 VERS. 2007-1 VERS. 2007-2 VERS. 2010-1	(FEBRUARY 2000) (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010)	USER FEEDBACK))*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. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible
VERS. 2000-1 VERS. 2002-1 VERS. 2004-1 VERS. 2007-1 VERS. 2007-2 VERS. 2010-1 VERS. 2012-1	(FEBRUARY 2000) (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012)	USER FEEDBACK))*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. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop
VERS. 2002-1 VERS. 2004-1 VERS. 2007-1 VERS. 2007-2 VERS. 2010-1 VERS. 2012-1 VERS. 2015-1	<pre>(FEBRUARY 2000) (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015)</pre>	USER FEEDBACK))*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. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop *Replaced ALL 3 way IF Statements.
VERS. 2000-1 VERS. 2002-1 VERS. 2004-1 VERS. 2007-1 VERS. 2007-2 VERS. 2010-1 VERS. 2012-1	<pre>(FEBRUARY 2000) (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015)</pre>	USER FEEDBACK))*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. *General update based on user feedback *Added CODENAME *32 and 64 bit Compatible *Added ERROR stop *Replaced ALL 3 way IF Statements.
VERS. 2000-1 VERS. 2002-1 VERS. 2004-1 VERS. 2007-2 VERS. 2010-1 VERS. 2012-1 VERS. 2012-1 VERS. 2015-1 VERS. 2017-1	(FEBRUARY 2000) (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015) (May 2017)	USER FEEDBACK))*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. *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.
VERS. 2000-1 VERS. 2002-1 VERS. 2004-1 VERS. 2007-2 VERS. 2010-1 VERS. 2012-1 VERS. 2012-1 VERS. 2015-1 VERS. 2017-1	<pre>(FEBRUARY 2000) (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015)</pre>	USER FEEDBACK))*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. *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.
VERS. 2000-1 VERS. 2002-1 VERS. 2004-1 VERS. 2007-2 VERS. 2010-1 VERS. 2012-1 VERS. 2012-1 VERS. 2015-1 VERS. 2017-1 OWNED, MAINT	(FEBRUARY 2000) (MAY 2002) (MARCH 2004) (JAN. 2007) (JUNE 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015) (May 2017)	USER FEEDBACK))*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. *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.

P.O. BOX 100 Merger A-1400, VIENNA, AUSTRIA Merger EUROPE Merger Merger ORIGINALLY WRITTEN BY Merger ------Merger Dermott E. Cullen Merger Merger PRESENT CONTACT INFORMATION Merger ------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 RedCullen1.net/HOMEPAGE.NEW Merger Merger AUTHORS MESSAGE 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 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 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 Merger SINGLE MAT/MF/MT ORDERED FINAL OUTPUT FILE. Merger Merger IN THE DISCUSSION THAT FOLLOWS FOR SIMPLICITY THE ENDF/B Merger TERMINOLOGY---ENDF/B TAPE---WILL BE USED. IN FACT THE ACTUAL Merger 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 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 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 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 Merger 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 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 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 Merger REQUEST LIMITS Merger _____ 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 Merger (1) MAT OR ZA - IF THE UPPER LIMIT IS ZERO IT IS SET EQUAL TO THE Merger LOWER LIMIT. Merger (2) MF OR MT - IF THE UPPER LIMIT IS ZERO IT IS SET EQUAL TO THE Merger MAXIMUM POSSIBLE VALUE, 99 OR 999 RESPECTIVELY. Merger Merger WITH THESE CONVENTIONS AN ENTIRE EVALUATION MAY BE SELECTED BY Merger MERELY SPECIFYING THE LOWER LIMIT OF MAT OR ZA. THE UPPER MAT OR Merger 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 Merger 99/999. THIS WILL CAUSE ALL SECTIONS OF A SINGLE EVALUATION TO BE Merger SELECTED. Merger Merger SATISFYING SELECTION CRITERIA Merger Merger _____ IN ORDER FOR A SECTION TO MEET THE SELECTION CRITERIA SPECIFIED Merger BY ONE OF THE RETRIEVAL REQUESTS, EACH OF THE THREE FIELDS (Merger 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 Merger 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 Merger LIMITS OF THE REQUEST. FOR EXAMPLE, A SECTION WITH MAT/MF/MT= Merger 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 Merger MATERIALS WITH MAT BETWEEN 2000 AND 3000, BUT ONLY THOSE SECTIONS Merger WITH MF/MT=3/1. SIMILARLY A REQUEST FOR 2000/3/1 THROUGH 3000/99/ Merger 999 WILL NOT SELECT ANY SECTIONS WITH MF=1 OR 2, SINCE THE Merger REQUEST SPECIFIES ALL MATERIALS WITH MAT BETWEEN 2000 AND 3000, Merger BUT ONLY THOSE SECTIONS WITH MF= 3, OR MORE. Merger Merger DUPLICATE SECTIONS Merger _____ Merger IF TWO OR MORE SECTIONS WITH THE SAME MAT/MF/MT ARE FOUND EITHER Merger 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 Merger ALL OTHER SECTIONS WITH THE SAME MAT/MF/MT WILL BE SKIPPED. THE Merger OUTPUT REPORT WILL INDICATE WHICH SECTIONS WERE COPIED FROM WHICH Merger TAPES, AS WELL AS WHICH SECTIONS ARE DUPLICATE AND WERE SKIPPED. Merger Merger REACTION INDEX Merger _____ Merger THIS PROGRAM DOES NOT UPDATE THE REACTION INDEX IN MF=1, MT=451. Merger FOR EACH MATERIAL THE PROGRAM WILL FOLLOW THE CONVENTIONS Merger DEFINED ABOVE AND ONLY COPY ONE SECTION MF=1, MT=451 AND SKIP Merger ALL OTHERS (IF MORE THAN ONE). THIS CONVENTION HAS BEEN ADOPTED Merger BECAUSE MOST USERS DO NOT REQUIRE A CORRECT REACTION INDEX FOR Merger THERE APPLICATIONS AND IT WAS NOT CONSIDERED WORTHWHILE TO INCLUDE Merger THE OVERHEAD OF CONSTRUCTING A CORRECT REACTION INDEX IN THIS Merger PROGRAM. HOWEVER, IF YOU REQUIRE A REACTION INDEX FOR YOUR Merger APPLICATION AFTER RUNNING THIS PROGRAM YOU MAY USE PROGRAM Merger DICTIN TO CREATE ONE. Merger Merger RETRIEVAL STATISTICS Merger _____ Merger THERE WILL ALWAYS BE AN OUTPUT REPORT LISTING INDICATING WHICH Merger SECTIONS WHERE SELECTED, WHICH DUPLICATE SECTIONS WERE SKIPPED, Merger WHICH TAPE THE SECTION WAS ON, WHICH REQUEST (MAT/MF/MT OR Merger ZA/MF/MT RANGE) CAUSED THE SECTION TO BE SELECTED AND HOW MANY Merger CARDS WERE IN THE SECTION. IN ADDITION THE USER MAY OPTIONALLY Merger OBTAIN A FILE CONTAINING THE SAME INFORMATION. THIS FILE MAY BE Merger COMBINED WITH OTHER SIMILAR FILES OUTPUT BY THIS PROGRAM IN ORDER Merger TO ACCUMULATE RETRIEVAL STATISTICS OVER A PERIOD OF TIME. IF Merger SPECIFIED THIS FILE WILL CONTAIN THE FOLLOWING INFORMATION IN Merger 617 FORMAT. Merger Merger (1) ZA Merger (2) MAT Merger (3) MF Merger (4) MT Merger (5) NUMBER OF CARDS IN SECTION Merger (6) REQUEST NUMBER THAT CAUSED SECTION TO BE SELECTED Merger Merger INPUT FILES Merger _____ Merger UNIT DESCRIPTION Merger ____ ____ Merger 2 INPUT CARDS (BCD - 80 CHARACTERS/RECORD) Merger VARY FROM 1 TO 99 ENDF/B DATA FILES (BCD - 80 CHARACTERS/RECORD) Merger Merger OUTPUT FILES Merger -----Merger UNIT DESCRIPTION Merger ____ _____ Merger OUTPUT REPORT LISTING (BCD - 120 CHARACTERS/RECORD) 3 Merger MERGED ENDF/B DATA (BCD - 80 CHARACTERS/RECORD) 10 Merger Merger OPTIONAL STANDARD FILE NAMES (SEE SUBROUTINES FILIO1 AND FILIO2) Merger _____ Merger UNIT FILE NAME DESCRIPTION Merger ------____ Merger 2 MERGER.INP INPUT PARAMETERS Merger MERGER.LST OUTPUT LISTING 3 Merger ENDFB.OUT RETRIEVED ENDF/B DATA 11 Merger ENDFB.IN1 ENDF/B DATA TO READ...FILENAMES WILL BE DEFINED 12 Merger 13 ENDFB.IN2 IN THE ORDER ENDFB.IN1, ENDFB.IN2,...ENDFB.I99 Merger CORRESPONDING TO THE FIRST, SECOND,...99-TH 14 ENDFB.IN3 Merger 15 ENDFB.IN4 ENDF/B DATA FILE TO READ. Merger 16 ENDFB.IN5 Merger 17 ENDFB.IN6 Merger ENDFB.IN7 18 Merger Merger • Merger 110 ENDFB.199 Merger Merger INPUT CARDS Merger Merger _____ CARD COLUMNS FORMAT DESCRIPTION Merger

				Morgor	
1	1_72	A72	FILENAME FOR MERGED OUTPUT.	Merger Merger	
1	1-72	A/Z	(LEAVE BLANK FOR STANDARD = ENDFB.OUT)	Merger	
2	1-66	16A4.A2	MERGED FILE LABEL	Merger	
			IF BLANK - LABEL FROM FIRST FILE READ WILL		
			BE OUTPUT	Merger	
	67-70	I4	MERGED FILE ENDF/B NUMBER	Merger	
			IF ZERO - NUMBER OF FIRST FILE READ WILL	Merger	
			BE OUTPUT.	Merger	
	71-72	12	RETRIEVAL CRITERIA	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	
VADV	1 6	TC	SAYS END OR end LOWER PRIMARY LIMIT (MAT OR ZA)	Merger	
VARY	1- 6 7- 8	16 12	LOWER MF LIMIT	Merger	
	7- 8 9-11	12	LOWER MF LIMIT	Merger	
	12-17	15	UPPER PRIMARY LIMIT (MAT OR ZA)	Merger Merger	
	18-19	10	UPPER MF LIMIT	Merger	
	20-22		UPPER MT LIMIT	Merger	
		10	RANGES OF MAT/MF/MT OR ZA/MF/MT TO BE	Merger	
			RETRIEVED ARE SPECIFIED BY DEFINING	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	Merger	
			THE FIRST CARD IS BLANK (0 REQUESTS)	Merger	
			ALL DATA WILL BE RETRIEVED. IF THE UPPER	Merger	
PRIMARY CRITERIA (MAT OR ZA) IS LESS THAN					
THE LOWER PRIMARY CRITERIA, THE UPPER					
PRIMARY CRITERIA WILL BE SET EQUAL TO					
THE LOWER PRIMARY CRITERIA. IF THE UPPER					
MF OR MT LIMIT IS ZERO, OR BLANK, IT					
				Merger Merger	
VALUE, I.E. MF=99 OR MT=999 (SEE					
EXAMPLE INPUT).					
EXAMP	LE INPUT	NO 1		Merger Merger	
				Merger	
MERGE	ENDF/B	DATA ONTO	UNIT 10 FROM UNITS 11, 12, 13 AND 14.	Merger	
RETRI	EVE DATA	BY MAT NU	UMBER. RETRIEVE MATS 1103, 1106, ALL MATS	Merger	
BETWE	EN 1204 .	AND 1215,	MF=1, 3, 4 AND 5 OF MAT 1219 AND MF=3,	Merger	
MT=1 OF MAT 1304. USE STANDARD FILENAMES.					
THE FO	OLLOWING	13 INPUT	CARDS ARE REQUIRED.	Merger	
				Merger Merger	
ENDFB.OUT					
		ABEL FOR N	MERGER 0 0	Merger Merger	
ENDFB.IN1 ENDFB.IN2					
ENDFB.IN3 ENDFB.IN4					
ENDED.	-117			Merger Merger	
1103			4317 (UPPER LIMIT SET TO 1103/99/999)	-	
1106			4317 (UPPER LIMIT SET TO 1106/99/999)		
1204	1	215	4317 (UPPER LIMIT SET TO 1215/99/999)	-	
1219		219 1	4317 (UPPER LIMIT SET TO 1219/ 1/999)	-	
1219	3 1	219 5	4317 (UPPER LIMIT SET TO 1219/ 5/999)	-	
1304	3 1 1	304 3 1	4317 (UPPER LIMIT COMPLETELY DEFINED)	Merger	
(BLANK CARD TERMINATES REQUESTS)					
				Merger	

EXAMPLE INPUT NO. 2	Merger Merger
THE SAME AS EXAMPLE 1, EXCEPT SPECIFY FILENAMES	Merger
,	Merger
\ENDFB6\MERGED.LIB	Merger
EXAMPLE FILE LABEL FOR MERGER 0 () Merger
ENDFB6.PART1	Merger
ENDFB6.PART2	Merger
ENDFB6.PART3	Merger
ENDFB6.PART4	Merger
END	Merger
1103 4317 (UPPER LIMIT SET TO 1103/99/99)	Merger
1106 4317 (UPPER LIMIT SET TO 1106/99/999)	Merger
1204 1215 4317 (UPPER LIMIT SET TO 1215/99/99)	Merger
1219 1 1219 1 4317 (UPPER LIMIT SET TO 1219/ 1/999)	Merger
1219 3 1219 5 4317 (UPPER LIMIT SET TO 1219/ 5/999)	Merger
1304 3 1 1304 3 1 4317 (UPPER LIMIT COMPLETELY DEFINED)	Merger
(BLANK CARD TERMINATES REQUESTS)	Merger
	Merger
	= Merger