					MER MER
PROGRAM	MERGE	R			MER
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VERSION			v 1000)		MER
				•	
VERSION		-)	MER
VERSION		-	-		MER
VERSION	83-1	(JANUAR	Y 1983)	*NEW, MORE COMPATIBLE I/O UNIT NUMBERS.	.MER
VERSION	85-1	(AUGUST	1985)	*FORTRAN-77/H VERSION	MER
VERSION	86-1	(JANUAR	Y 1986)	*ENDF/B-VI FORMATS	MER
VERSION	88-1	(JULY 1	.988)	*OPTIONINTERNALLY DEFINE ALL I/O	MER
		•		FILE NAMES (SEE, SUBROUTINES FILIO1	MER
				AND FILIO2 FOR DETAILS).	MER
				*IMPROVED BASED ON USER COMMENTS.	MER
TEDCTON	00_1	/ TANIIIAD		*PSYCHOANALYZED BY PROGRAM FREUD TO	MER
VERSION	09-1	(UANUAR	.1 1909)		
				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	(JANUAR	Y 1992)	*UPDATED BASED ON USER COMMENTS	MER
	_	,	-	*ADDED FORTRAN SAVE OPTION	MER
VERSION	92-2	/.TITI.V 1		*ALLOW UP TO 99 ENDF/B DATA FILES.	MER
* TLO TON	J2-2	'OOTI I	JJ21	· · · · · · · · · · · · · · · · · · ·	
				(TO ALLOW MANAGEMENT OF THE ENTIRE	MER
			466.	ENDF/B SYSTEM).	MER
VERSION	94-1	(JANÚAR	.х 1994)	*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
TED O T CT	06 -	/		*REQUEST LOG DELETED	MER
VERSION	96-I	(JANUAR	т таар)	*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	MER
				USER FEEDBACK	MER
VERS. 20	00-1	(FEBRUA	RY 2000)*GENERAL IMPROVEMENTS BASED ON	MER
				USER FEEDBACK	MER
VERS. 20	02-1	(MAY 20	02)	*OPTIONAL INPUT PARAMETERS	MER
		-	-	*OPTIONAL INPUT PARAMETERS *ADDED INCLIDE TO DEFINE COMMON	MER
		-	-	*ADDED INCLUDE TO DEFINE COMMON	MER
VERS. 20	04-1	(MARCH	2004)	*ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED	MER(
VERS. 20	04-1	(MARCH	2004)	*ADDED INCLUDE TO DEFINE COMMON *ADDED TEND LINE IF NO DATA RETRIEVED *CHECKED AGAINST ALL ENDF/B-VII.	MER(
VERS. 20	04-1	(MARCH	2004)	*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.	MERO MERO MERO MERO
VERS. 20	04-1	(MARCH	2004)	*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.	MERO MERO MERO MERO MERO
VERS. 20 VERS. 20 VERS. 20	04-1 07-1 07-2	(MARCH (JAN. (JUNE	2004) 2007) 2007)	*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.	MERO MERO MERO MERO MERO
VERS. 20 VERS. 20 VERS. 20 VERS. 20	04-1 07-1 07-2	(MARCH (JAN. (JUNE (Apr.	2004) 2007) 2007) 2010)	*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.	MERO MERO MERO MERO MERO
VERS. 20 VERS. 20 VERS. 20 VERS. 20	04-1 07-1 07-2	(MARCH (JAN. (JUNE (Apr.	2004) 2007) 2007) 2010)	*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	MERO MERO MERO MERO MERO MERO
VERS. 20 VERS. 20 VERS. 20 VERS. 20	04-1 07-1 07-2	(MARCH (JAN. (JUNE (Apr.	2004) 2007) 2007) 2010)	*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	MERO MERO MERO MERO MERO MERO MERO MERO
VERS. 20 VERS. 20 VERS. 20 VERS. 20 VERS. 20	004-1 007-1 007-2 010-1 012-1	(MARCH (JAN. (JUNE (Apr. (Aug.	2004) 2007) 2007) 2010) 2012)	*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	MERO MERO MERO MERO MERO MERO MERO MERO
VERS. 20 VERS. 20 VERS. 20 VERS. 20 VERS. 20 VERS. 20	004-1 007-1 007-2 010-1 012-1	(MARCH (JAN. (JUNE (Apr. (Aug.	2004) 2007) 2007) 2010) 2012) 2015)	*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.	MERO MERO MERO MERO MERO MERO MERO MERO
VERS. 20 VERS. 20 VERS. 20 VERS. 20 VERS. 20 VERS. 20 VERS. 20	004-1 007-1 007-2 10-1 12-1 015-1 117-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May	2004) 2007) 2007) 2010) 2012) 2015) 2017)	*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.	MERO MERO MERO MERO MERO MERO MERO MERO
VERS. 20	004-1 007-1 007-2 110-1 112-1 115-1 117-1 118-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan.	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018)	*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	MERO MERO MERO MERO MERO MERO MERO MERO
VERS. 20	004-1 007-1 007-2 110-1 112-1 115-1 117-1 118-1 119-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018) 2019)	*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	MERO MERO MERO MERO MERO MERO MERO MERO
VERS. 20	004-1 007-1 007-2 110-1 112-1 115-1 117-1 118-1 119-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018) 2019)	*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 *Allow EMPTY files = file exists, but	MERO MERO MERO MERO MERO MERO MERO MERO
VERS. 20	004-1 007-1 007-2 110-1 112-1 115-1 117-1 118-1 119-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018) 2019)	*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	MERO MERO MERO MERO MERO MERO MERO MERO
VERS. 20	04-1 07-1 07-2 10-1 12-1 15-1 17-1 18-1 19-1 20-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June (Feb.	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018) 2019) 2020)	*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 *Allow EMPTY files = file exists, but	MERO MERO MERO MERO MERO MERO MERO MERO
VERS. 20	04-1 07-1 07-2 10-1 12-1 15-1 17-1 18-1 19-1 20-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June (Feb.	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018) 2019) 2020)	*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 *Allow EMPTY files = file exists, but 0 length = EOF at first read try. *Updated for FORTRAN 2018	MERI MERI MERI MERI MERI MERI MERI MERI
VERS. 20	04-1 07-1 07-2 10-1 12-1 15-1 17-1 18-1 19-1 20-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June (Feb.	2004) 2007) 2007) 2010) 2012) 2015) 2017) 2018) 2019) 2020)	*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 *Allow EMPTY files = file exists, but 0 length = EOF at first read try. *Updated for FORTRAN 2018 *Updated SEND/FEND/MEND/TEND Sequence	MERI MERI MERI MERI MERI MERI MERI MERI
VERS. 20	004-1 007-1 007-2 10-1 12-1 15-1 17-1 18-1 19-1 20-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June (Feb. (Apr.	2004) 2007) 2010) 2012) 2015) 2017) 2018) 2019) 2020)	*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 *Allow EMPTY files = file exists, but 0 length = EOF at first read try. *Updated for FORTRAN 2018 *Updated SEND/FEND/MEND/TEND Sequence number definition.	MERI MERI MERI MERI MERI MERI MERI MERI
VERS. 20	004-1 007-1 007-2 10-1 12-1 15-1 17-1 18-1 19-1 20-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June (Feb. (Apr.	2004) 2007) 2010) 2012) 2015) 2017) 2018) 2019) 2020)	*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 *Allow EMPTY files = file exists, but 0 length = EOF at first read try. *Updated for FORTRAN 2018 *Updated SEND/FEND/MEND/TEND Sequence number definition.	MER MER MER MER MER MER MER MER MER MER
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VERS. 20	04-1 07-1 07-2 10-1 12-1 15-1 17-1 18-1 19-1 20-1 21-1 23-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June (Feb. (Apr.	2004) 2007) 2010) 2012) 2015) 2017) 2018) 2019) 2020) 2021) 2023) TD DISTR	*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 ENDERROF *Identical to 2018-1 *Allow EMPTY files = file exists, but 0 length = EOF at first read try. *Updated for FORTRAN 2018 *Updated SEND/FEND/MEND/TEND Sequence number definition. *Idehntical to 2021-1. IBUTED BY	MERCAMERA
VERS. 20	04-1 07-1 07-2 10-1 12-1 15-1 17-1 18-1 19-1 20-1 21-1 23-1	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June (Feb. (Apr.	2004) 2007) 2010) 2012) 2015) 2017) 2018) 2019) 2020) 2021) 2023) TD DISTR	*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 *Allow EMPTY files = file exists, but 0 length = EOF at first read try. *Updated for FORTRAN 2018 *Updated SEND/FEND/MEND/TEND Sequence number definition. *Idehntical to 2021-1.	MERCAMERA
VERS. 20	004-1 007-1 007-2 100-1 112-1 115-1 117-1 118-1 119-1 20-1 121-1 123-1 IAINTA	(MARCH (JAN. (JUNE (Apr. (Aug. (Jan. (May (Jan. (June (Feb. (Apr.	2004) 2007) 2010) 2012) 2015) 2017) 2018) 2019) 2020) 2021) D DISTR	*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 ENDERROF *Identical to 2018-1 *Allow EMPTY files = file exists, but 0 length = EOF at first read try. *Updated for FORTRAN 2018 *Updated SEND/FEND/MEND/TEND Sequence number definition. *Idehntical to 2021-1. IBUTED BY	MERCAMERA

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P.O. BOX 100 A-1400, VIENNA, AUSTRIA	MERGER MERGER
EUROPE	MERGER
	MERGER
ORIGINALLY WRITTEN BY	MERGER
	MERGER
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	MERGER
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Website RedCullen1.net/HOMEPAGE.NEW	MERGER
	MERGER
AUTHORS MESSAGE	MERGER
	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 COMPUTE	
INDEPENDENT PROGRAMS THAT CAN EASILY BE IMPLEMENTED ON ANY ONE	MERGER
OF A WIDE VARIETY OF COMPUTERS. IN ORDER TO ASSIST IN THIS PROJEC	
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
DUDDOGE	MERGER
PURPOSE	MERGER MERGER
THIS PROGRAM IS DESIGNED TO SELECTIVELY RETRIEVE DATA OFF OF FROM	
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
TERMINOLOGYENDF/B TAPEWILL BE USED. IN FACT THE ACTUAL	MERGER
MEDIUM USED MAY BE TAPE, CARD, DISK OR ANY OTHER MEDIUM.	MERGER
	MERGER
ENDF/B FORMAT	MERGER
THIS PROGRAM ONLY USES THE ENDF/B BCD OR CARD IMAGE FORMAT (AS	MERGER 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 TH	
	EMERGER
FIRST CARD OF EACH SECTION AND THE MAT/MF/MT FROM EACH CARD.	MERGER MERGER
SEQUENCE NUMBERS ARE IGNORED ON INPUT AND ALL OTHER FIELDS ARE	
SEQUENCE NUMBERS ARE IGNORED ON INPUT AND ALL OTHER FIELDS ARE READ AS HOLLERITH. AS SUCH THIS PROGRAM NEED NOT DISTINGUISH	MERGER MERGER MERGER
SEQUENCE NUMBERS ARE IGNORED ON INPUT AND ALL OTHER FIELDS ARE	MERGER MERGER MERGER MERGER
SEQUENCE NUMBERS ARE IGNORED ON INPUT AND ALL OTHER FIELDS ARE READ AS HOLLERITH. AS SUCH THIS PROGRAM NEED NOT DISTINGUISH BETWEEN DIFFERENT VERSIONS OF THE ENDF/B FORMAT.	MERGER MERGER MERGER MERGER MERGER
SEQUENCE NUMBERS ARE IGNORED ON INPUT AND ALL OTHER FIELDS ARE READ AS HOLLERITH. AS SUCH THIS PROGRAM NEED NOT DISTINGUISH BETWEEN DIFFERENT VERSIONS OF THE ENDF/B FORMAT. IT IS ASSUMED THAT THE DATA IS CORRECTLY CODED IN THE ENDF/B	MERGER MERGER MERGER MERGER MERGER MERGER
SEQUENCE NUMBERS ARE IGNORED ON INPUT AND ALL OTHER FIELDS ARE READ AS HOLLERITH. AS SUCH THIS PROGRAM NEED NOT DISTINGUISH BETWEEN DIFFERENT VERSIONS OF THE ENDF/B FORMAT. IT IS ASSUMED THAT THE DATA IS CORRECTLY CODED IN THE ENDF/B FORMAT AND NO ERROR CHECKING IS PERFORMED. IN PARTICULAR IT IS	MERGER MERGER MERGER MERGER MERGER MERGER MERGER
SEQUENCE NUMBERS ARE IGNORED ON INPUT AND ALL OTHER FIELDS ARE READ AS HOLLERITH. AS SUCH THIS PROGRAM NEED NOT DISTINGUISH BETWEEN DIFFERENT VERSIONS OF THE ENDF/B FORMAT. IT IS ASSUMED THAT THE DATA IS CORRECTLY CODED IN THE ENDF/B	MERGER MERGER MERGER MERGER MERGER MERGER MERGER
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SEQUENCE NUMBERS ARE IGNORED ON INPUT AND ALL OTHER FIELDS ARE READ AS HOLLERITH. AS SUCH THIS PROGRAM NEED NOT DISTINGUISH BETWEEN DIFFERENT VERSIONS OF THE ENDF/B FORMAT. IT IS ASSUMED THAT THE DATA IS CORRECTLY CODED IN THE ENDF/B FORMAT AND NO ERROR CHECKING IS PERFORMED. IN PARTICULAR IT IS ASSUMED THAT THE MAT, MF AND MT ON EACH CARD IS CORRECT. SEQUENCE NUMBERS (COLUMNS 76-80) ARE IGNORED ON INPUT, BUT WILL BE	MERGER MERGER MERGER MERGER MERGER MERGER MERGER MERGER MERGER
SEQUENCE NUMBERS ARE IGNORED ON INPUT AND ALL OTHER FIELDS ARE READ AS HOLLERITH. AS SUCH THIS PROGRAM NEED NOT DISTINGUISH BETWEEN DIFFERENT VERSIONS OF THE ENDF/B FORMAT. IT IS ASSUMED THAT THE DATA IS CORRECTLY CODED IN THE ENDF/B FORMAT AND NO ERROR CHECKING IS PERFORMED. IN PARTICULAR IT IS 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. SECTION SIZE	MERGER
SEQUENCE NUMBERS ARE IGNORED ON INPUT AND ALL OTHER FIELDS ARE READ AS HOLLERITH. AS SUCH THIS PROGRAM NEED NOT DISTINGUISH BETWEEN DIFFERENT VERSIONS OF THE ENDF/B FORMAT. IT IS ASSUMED THAT THE DATA IS CORRECTLY CODED IN THE ENDF/B FORMAT AND NO ERROR CHECKING IS PERFORMED. IN PARTICULAR IT IS 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. SECTION SIZE	MERGER
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SEQUENCE NUMBERS ARE IGNORED ON INPUT AND ALL OTHER FIELDS ARE READ AS HOLLERITH. AS SUCH THIS PROGRAM NEED NOT DISTINGUISH BETWEEN DIFFERENT VERSIONS OF THE ENDF/B FORMAT. IT IS ASSUMED THAT THE DATA IS CORRECTLY CODED IN THE ENDF/B FORMAT AND NO ERROR CHECKING IS PERFORMED. IN PARTICULAR IT IS 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. SECTION SIZE 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
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THAT ONLY CERTAIN DATA SHOULD BE SELECTED. THE DATA TO BE SELECTED IS DEFINED BY SPECIFYING UP TO 100 MAT/MF/MT OR ZA/MF/MT RANGES. EACH RANGE IS DEFINED BY LOWER AND UPPER LIMITS OF MAT/MF/MT OR ZA/MF/MT.

MERGER MERGER MERGER MERGER

MERGER

REQUEST LIMITS

MERGER MERGER

IN ORDER TO SIMPLIFY THE INPUT OF SELECTION REQUESTS THE FOLLOWINGMERGER CONVENTIONS HAVE BEEN INTRODUCED IN ORDER TO DEFINE THE UPPER MERGER LIMITS OF REQUESTS IF THEY ARE NOT DEFINED BY INPUT (I.E., IF THEYMERGER 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

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 OFMERGER 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 CORRESPONDINGMERGER 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. THEMERGER 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 USINGMERGER THE RANGE 2000/3/1 THROUGH 3000/3/1. THIS REQUEST SPECIFIES ALL 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 REOUEST SPECIFIES ALL MATERIALS WITH MAT BETWEEN 2000 AND 3000. MERGER BUT ONLY THOSE SECTIONS WITH MF= 3, OR MORE. 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 OUTPUT REPORT WILL INDICATE WHICH SECTIONS WERE COPIED FROM WHICH MERGER TAPES, AS WELL AS WHICH SECTIONS ARE DUPLICATE AND WERE SKIPPED.

REACTION INDEX

MERGER MERGER MERGER

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 INCLUDEMERGER 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. MERGER

MERGER MERGER MERGER MERGER MERGER MERGER MERGER

RETRIEVAL STATISTICS

MERGER MERGER MERGER

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

MERGER MERGER MERGER MERGER MERGER

COMBI	NED WITH (OTHER SIM	ILAR FILES OUTPUT BY THIS PROGRAM IN ORDER	MERGER				
TO ACCUMULATE RETRIEVAL STATISTICS OVER A PERIOD OF TIME. IF SPECIFIED THIS FILE WILL CONTAIN THE FOLLOWING INFORMATION IN								
617 F	ORMAT.			MERGER MERGER				
(1) Z	(1) ZA							
(2) M				MERGER MERGER				
(3) MI				MERGER MERGER				
				MERGER MERGER				
INPUT FILES								
	DESCRIPTI	ON		MERGER MERGER				
				MERGER				
			- 80 CHARACTERS/RECORD) /B DATA FILES (BCD - 80 CHARACTERS/RECORD)	MERGER				
VARI	FROM 1 TO) 99 ENDE,	/B DATA FILES (BCD - 80 CHARACTERS/RECORD)	MERGER				
OUTPU	r FILES			MERGER				
				MERGER				
	DESCRIPT			MERGER MERGER				
				MERGER				
10	MERGED EN	NDF/B DATA	•	MERGER				
ОРТТО	MAT CTEANING	י שודש חסג	NAMES (SEE SUBROUTINES FILIO1 AND FILIO2)	MERGER				
UNIT	FILE NAME	E DESCR	IPTION	MERGER				
				MERGER				
	MERGER. LS		PARAMETERS F LISTING	MERGER MERGER				
11	ENDFB.OUT	retrii	EVED ENDF/B DATA	MERGER				
			B DATA TO READFILENAMES WILL BE DEFINED					
			E ORDER ENDFB.IN1, ENDFB.IN2,ENDFB.I99 SPONDING TO THE FIRST, SECOND,99-TH	MERGER MERGER				
			B DATA FILE TO READ.	MERGER				
	ENDFB.IN5			MERGER				
	ENDFB.IN			MERGER				
18	ENDFB.IN	/		MERGER MERGER				
				MERGER				
110	ENDFB.199	9		MERGER				
TNPII	r cards			MERGER MERGER				
				MERGER				
	COLUMNS		DESCRIPTION	MERGER				
1	1-72	A72	FILENAME FOR MERGED OUTPUT.	MERGER MERGER				
-	1 /2	A/Z	(LEAVE BLANK FOR STANDARD = ENDFB.OUT)					
2	1-66	16A4,A2	MERGED FILE LABEL	MERGER				
			IF BLANK - LABEL FROM FIRST FILE READ WILD BE OUTPUT					
	67-70	14		MERGER MERGER				
			IF ZERO - NUMBER OF FIRST FILE READ WILL					
	F4 F0		BE OUTPUT.	MERGER				
	71-72	12	RETRIEVAL CRITERIA = 0 - MAT/MF/MT RANGES	MERGER MERGER				
			= 1 - ZA/MF/MT RANGES	MERGER				
3-N	1-72	A72	FILENAME FOR FILE TO RETRIEVE DATA FROM					
			(LEAVE BLANK FOR STANDARDENDFB.IN1,ETC.) TERMINATE LIST OF FILES WITH A LINE THAT					
				MERGER				
VARY	1- 6		LOWER PRIMARY LIMIT (MAT OR ZA)	MERGER				
	7- 8 0-11	I2	LOWER MF LIMIT	MERGER				
	9-11 12-17	13 16		MERGER MERGER				
	18-19	12		MERGER				
	20-22	13	VIIII DIIII	MERGER				
			RANGES OF MAT/MF/MT OR ZA/MF/MT TO BE RETRIEVED ARE SPECIFIED BY DEFINING	MERGER				
			VETVIENED WE SECTIFIED DI DELINING	MERGEK				

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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 MERGER
                        THE LOWER PRIMARY CRITERIA, THE UPPER
                        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
                                                                   MERGER
 THE FOLLOWING 13 INPUT CARDS ARE REQUIRED.
                                                                   MERGER
ENDFB.OUT
                                                                  MERGER
EXAMPLE FILE LABEL FOR MERGER
                                                                0 OMERGER
ENDFB.IN1
                                                                   MERGER
ENDFB. IN2
                                                                   MERGER
ENDFB.IN3
                                                                   MERGER
ENDFB.IN4
                                                                   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
  1219 1
             1219 1
             1219 5
                            4317 (UPPER LIMIT SET TO 1219/ 5/999) MERGER
  1219 3
  1304 3 1 1304 3 1
                            4317 (UPPER LIMIT COMPLETELY DEFINED) MERGER
                                   (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
EXAMPLE FILE LABEL FOR MERGER
                                                                0 OMERGER
ENDFB6.PART1
                                                                   MERGER
ENDFB6.PART2
                                                                   MERGER
ENDFB6.PART3
                                                                   MERGER
ENDFB6.PART4
                                                                   MERGER
END
                                                                   MERGER
                            4317 (UPPER LIMIT SET TO 1103/99/999) MERGER
  1103
  1106
                                  (UPPER LIMIT SET TO 1106/99/999) MERGER
                            4317
                            4317
                                  (UPPER LIMIT SET TO 1215/99/999) MERGER
  1204
             1215
  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
```