======	=====	:========		Dict Dict
PROGRAM	DICTI	(Renamed from	DICTION to eliminate conflict with	Dict
			command - 12/22/02)	Dict
			Command 12/22/02/	
				Dict
		(SEPTEMBER 1981	.)	Dict
VERSION	82-1	(JANUARY 1982)		Dict
VERSION	83-1	(JANUARY 1983)	*KEEP ORIGINAL MOD. NUMBER	Dict
			*NEW, MORE COMPATIBLE I/O UNITS.	Dict
WEDGION	Q/_1	/CEDTEMBED 100/) *UPDATED TO HANDLE ENDF/B-VI FORMAT.	Dict
VERSION	04 1	(SEFIEMBER 1904		
			(PROGRAM WILL NOW WORK ON ALL	Dict
			VERSIONS OF THE ENDF/B FORMAT).	Dict
VERSION	85-1	(AUGUST 1985)	*FORTRAN-77/H VERSION	Dict
			*MAT ORDER CHECK.	Dict
		,,	*IF NO HOLLERITH SECTION COPY MAT.	Dict
TED C TON	00 1	/ TTT V 1000)		
VERSION	99-I	(JULY 1988)	*OPTIONINTERNALLY DEFINE ALL I/O	Dict
			FILE NAMES (SEE, SUBROUTINE FILEIO	Dict
			FOR DETAILS).	Dict
			*IMPROVED BASED ON USER COMMENTS.	Dict
TEDETON	00_1	/ TANIIIADV 1000)		Dict
VERSION	09-1	(JANUARY 1989)		
			INSURE PROGRAM WILL NOT DO ANYTHING	Dict
			CRAZY.	Dict
			*IMPROVED BASED ON USER COMMENTS.	Dict
			*ADDED LIVERMORE CIVIC COMPILER	Dict
			CONVENTIONS.	Dict
			*UPDATED TO USE NEW PROGRAM CONVERT	Dict
			KEYWORDS.	Dict
VERSION	92-1	(JANUARY 1992)	*UPDATED BASED ON USER COMMENTS.	Dict
			*UP TO 6000 SECTIONS PER TAPE.	Dict
			*CHANGED DEFAULT MOD NUMBER FOR NEW	
				Dict
			SECTIONS FROM 0 TO 1	Dict
VERSION	94-1	(JANUARY 1994)	*VARIABLE ENDF/B DATA FILENAMES	Dict
			TO ALLOW ACCESS TO FILE STRUCTURES	Dict
			(WARNING - INPUT PARAMETER FORMAT	Dict
			-	
			HAS BEEN CHANGED)	Dict
			*CLOSE ALL FILES BEFORE TERMINATING	Dict
			(SEE, SUBROUTINE ENDIT)	Dict
			*ADDED FORTRAN SAVE OPTION	Dict
VED S TON	96-1	(.TANIIADV 1006)	*COMPLETE RE-WRITE	Dict
12102011	JU _			
			*IMPROVED COMPUTER INDEPENDENCE	Dict
			*ALL DOUBLE PRECISION	Dict
			*ON SCREEN OUTPUT	Dict
			*UNIFORM TREATMENT OF ENDF/B I/O	Dict
			*IMPROVED OUTPUT PRECISION	Dict
TEDETON	00_1		*CORRECTED CHARACTER TO FLOATING	Dict
VERSION	33-I	(MARCH 1999)		
			POINT READ FOR MORE DIGITS	Dict
			*UPDATED TEST FOR ENDF/B FORMAT	Dict
			VERSION BASED ON RECENT FORMAT CHANGE	Dict
			*GENERAL IMPROVEMENTS BASED ON	Dict
			USER FEEDBACK	Dict
		(DDDDIIAD:: 0000;		
na co		(PEBKUAKY 2000)	*GENERAL IMPROVEMENTS BASED ON	Dict
VERS. 20	100-1	•	USER FEEDBACK	Dict
VERS. 20	000-1			D: -+
			*OPTIONAL INPUT PARAMETERS	DIC
		(MAY 2002)	*OPTIONAL INPUT PARAMETERS	
		(MAY 2002)	*OPTIONAL INPUT PARAMETERS *RENAMED dictin TO ELIMINATE CONFLICT	Dict
		(MAY 2002)	*OPTIONAL INPUT PARAMETERS *RENAMED dictin TO ELIMINATE CONFLICT WITH UNIX diction COMMAND.	Dict Dict
VERS. 20	002-1	(MAY 2002)	*OPTIONAL INPUT PARAMETERS *RENAMED dictin TO ELIMINATE CONFLICT WITH UNIX diction COMMAND. *ADDED DOCUMENTATION LINE TO COMMENTS.	Dict Dict Dict
VERS. 20	002-1	(MAY 2002)	*OPTIONAL INPUT PARAMETERS *RENAMED dictin TO ELIMINATE CONFLICT WITH UNIX diction COMMAND.	Dict Dict Dict
VERS. 20	002-1	(MAY 2002) (JAN. 2004)	*OPTIONAL INPUT PARAMETERS *RENAMED dictin TO ELIMINATE CONFLICT WITH UNIX diction COMMAND. *ADDED DOCUMENTATION LINE TO COMMENTS.	Dict Dict Dict
VERS. 20	002-1	(MAY 2002) (JAN. 2004)	*OPTIONAL INPUT PARAMETERS *RENAMED dictin TO ELIMINATE CONFLICT WITH UNIX diction COMMAND. *ADDED DOCUMENTATION LINE TO COMMENTS. *GENERAL UPDATE BASED ON USER FEEDBACK *UP TO 100,000 SECTIONS PER TAPE.	Dict Dict Dict Dict
VERS. 20	002-1	(MAY 2002) (JAN. 2004) (JAN. 2007)	*OPTIONAL INPUT PARAMETERS *RENAMED dictin TO ELIMINATE CONFLICT WITH UNIX diction COMMAND. *ADDED DOCUMENTATION LINE TO COMMENTS. *GENERAL UPDATE BASED ON USER FEEDBACK *UP TO 100,000 SECTIONS PER TAPE. *CHECKED AGAINST ALL ENDF/B-VII.	Dict Dict Dict Dict Dict
VERS. 20 VERS. 20 VERS. 20	002-1 004-1 007-1	(MAY 2002) (JAN. 2004) (JAN. 2007)	*OPTIONAL INPUT PARAMETERS *RENAMED dictin TO ELIMINATE CONFLICT WITH UNIX diction COMMAND. *ADDED DOCUMENTATION LINE TO COMMENTS. *GENERAL UPDATE BASED ON USER FEEDBACK *UP TO 100,000 SECTIONS PER TAPE. *CHECKED AGAINST ALL ENDF/B-VII. *UP TO 500,000 SECTIONS PER TAPE.	Dict Dict Dict Dict Dict Dict
VERS. 20 VERS. 20 VERS. 20	002-1 004-1 007-1	(MAY 2002) (JAN. 2004) (JAN. 2007)	*OPTIONAL INPUT PARAMETERS *RENAMED dictin TO ELIMINATE CONFLICT WITH UNIX diction COMMAND. *ADDED DOCUMENTATION LINE TO COMMENTS. *GENERAL UPDATE BASED ON USER FEEDBACK *UP TO 100,000 SECTIONS PER TAPE. *CHECKED AGAINST ALL ENDF/B-VII.	Dict Dict Dict Dict Dict Dict
VERS. 20 VERS. 20 VERS. 20 VERS. 20	002-1 004-1 007-1	(MAY 2002) (JAN. 2004) (JAN. 2007) (DEC. 2007)	*OPTIONAL INPUT PARAMETERS *RENAMED dictin TO ELIMINATE CONFLICT WITH UNIX diction COMMAND. *ADDED DOCUMENTATION LINE TO COMMENTS. *GENERAL UPDATE BASED ON USER FEEDBACK *UP TO 100,000 SECTIONS PER TAPE. *CHECKED AGAINST ALL ENDF/B-VII. *UP TO 500,000 SECTIONS PER TAPE.	Dict Dict Dict Dict Dict Dict Dict
VERS. 20 VERS. 20 VERS. 20 VERS. 20 VERS. 20	002-1 004-1 007-1 007-2 010-1	(MAY 2002) (JAN. 2004) (JAN. 2007) (DEC. 2007) (Apr. 2010)	*OPTIONAL INPUT PARAMETERS *RENAMED dictin TO ELIMINATE CONFLICT WITH UNIX diction COMMAND. *ADDED DOCUMENTATION LINE TO COMMENTS. *GENERAL UPDATE BASED ON USER FEEDBACK *UP TO 100,000 SECTIONS PER TAPE. *CHECKED AGAINST ALL ENDF/B-VII. *UP TO 500,000 SECTIONS PER TAPE. *72 CHARACTER FILE NAMES. *General update based on user feedback	Dict Dict Dict Dict Dict Dict Dict
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VERS. 2017-1 (May 2017) *Updated based on user feedback.	Dictin
VERS. 2018-1 (Jan. 2018) *Added on-line otput for ALL ENDERROR	Dictin
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PRESENT CONTACT INFORMATION	Dictin
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	Dictin
AUTHORS MESSAGE	Dictin
	Dictin
THE COMMENTS BELOW SHOULD BE CONSIDERED THE LATEST DOCUMENATION	Dictin
	Dictin
	Dictin
	Dictin
AT THE PRESENT TIME WE ARE ATTEMPTING TO DEVELOP A SET OF COMPUTER INDEPENDENT PROGRAMS THAT CAN EASILY BE IMPLEMENTED ON ANY ONE	Dictin
OF A WIDE VARIETY OF COMPUTERS. IN ORDER TO ASSIST IN THIS PROJECT	
	Dictin
	Dictin
IMPROVE THIS PROGRAM. HOPEFULLY, IN THIS WAY FUTURE VERSIONS OF	Dictin
THIS PROGRAM WILL BE COMPLETELY COMPATIBLE FOR USE ON YOUR	Dictin
COMPUTER.	Dictin
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•	Dictin
	Dictin
TERMINOLOGYENDF/B TAPEWILL BE USED. IN FACT THE ACTUAL	Dictin
MEDIUM MAY BE TAPE, CARDS, DISK, OR ANY OTHER MEDIUM.	Dictin
	Dictin
	Dictin
	Dictin
	Dictin
OPPOSED TO THE BINARY FORMAT) AND CAN HANDLE DATA IN ANY VERSION OF THE ENDF/B FORMAT (I.E., ENDF/B-I, II,III, IV, V OR VI FORMAT).	Dictin
	Dictin
	Dictin
ENDF/B FORMAT EACH MAT IS IN AND WILL THEN PROPERLY REPLACE THE	Dictin
·	
REACTION INDEX FOR EACH MAT. DIFFERENT MATS ON THE SAME TAPE MAY	Dictin
REACTION INDEX FOR EACH MAT. DIFFERENT MATS ON THE SAME TAPE MAY EVEN BE IN DIFFERENT VERSIONS OF THE ENDF/B FORMAT.	Dictin Dictin

FORMAT AND NO ERROR CHECKING IS PERFORMED. IN PARTICULAR IT IS ASSUMED THAT THE MAT, MF AND MT ON EACH LINE IS CORRECT. SEQUENCE Dictin NUMBERS (COLUMNS 76-80) NEED NOT BE PRESENT ON INPUT, BUT WILL BE Dictin CORRECTLY OUTPUT ON ALL LINES. Dictin Dictin ENDF/B FORMAT VERSION Dictin Dictin THE ENDF/B FORMAT CAN BE DETERMINED FROM THE SECOND LINE OF Dictin THE HOLLERITH SECTION (MF=1, MT=451). Dictin ENDF/B-IV = N1 - LINE COUNT (POSITIVE) Dictin ENDFB/-V = N1 = N2 = 0Dictin ENDF/B-VI = N1 =0, N2= VERSION NUMBER (6 OR MORE) Dictin Dictin SECTION SIZE Dictin SINCE THIS PROGRAM ONLY READS THE DATA ONE LINE AT A TIME THERE Dictin IS NO LIMIT TO THE SIZE OF ANY GIVEN SECTION, E.G. THE TOTAL CROSS SECTION MAY BE DESCRIBED BY 200,000 DATA POINTS. Dictin Dictin NUMBER OF SECTIONS PER TAPE Dictin Dictin IT IS ASSUMED THAT THE ENDF/B TAPE CONTAINS 100,000 OR FEWER SECTIONS = 100,000 OR FEWER MAT.MF.MT COMBINATIONS. IF THIS LIMIT Dictin IS EXCEEDED THIS PROGRAM WILL TERMINATE EXECUTION. IF NEED BE THIS Dictin LIMIT CAN EASILY BE CHANGED BY CHANGING THE DIMENSION STATEMENT Dictin BELOW AND RE-DEFINING THE VARIABLE MAXTAB IN THE BELOW DATA Dictin STATEMENT. ALTERNATIVELY THE ENDF/B TAPE MAY BE DIVIDED INTO A Dictin NUMBER SMALLER TAPES EACH CONTAINING 100,000 OR FEWER SECTIONS. Dictin EACH ENDF/B TAPE CAN THEN RUN THROUGH THIS PROGRAM AND THE OUTPUT Dictin FOR EACH ENDF/B TAPE CAN THEN BE RE-COMBINED (I.E., MERGED BACK Dictin TOGETHER) . Dictin HOLLERITH SECTION Dictin Dictin IF ANY MATERIAL DOES NOT INITIALLY CONATIN A SECTION MF=1, MT=451 Dictin A WARNING MESSAGE WILL BE PRINTED AND THE MATERIAL WILL BE COPIED. Dictin Dictin IF ANY MATERIAL INITIALLY CONTAINS A SECTION MF=1, MT=451 A NEW REACTION INDEX WILL BE CREATED AND INSERTED. THE INITIAL SECTION Dictin MF=1, MT=451 MAY OR MAY NOT CONTAIN A REACTION INDEX. Dictin Dictin IF THE MATERIAL INITIALLY CONTAINS A REACTION INDEX IT WILL BE USED TO DEFINE THE MOD NUMBER FOR CORRESPONDING SECTIONS IN THE Dictin NEW REACTION INDEX (I.E. IF A SECTION FROM THE ORIGINAL REACTION Dictin INDEX HAS THE SAME MF/MT NUMBERS AS A SECTION IN THE NEW REACTION INDEX THE MOD NUMBER FROM THE ORIGINAL REACTION INDEX WILL BE USED Dictin IN THE NEW REACTION INDEX). OTHERWISE THE MOD NUMBER IN THE NEW Dictin REACTION INDEX WILL BE SET EQUAL TO ZERO. Dictin Dictin PROGRAM OPERATION Dictin ______ Dictin THE ENTIRE ENDF/B TAPE IS FIRST READ AND A DICTIONARY ENTRY IS CREATED FOR EACH SECTION OF THE TAPE. THE ENDF/B TAPE IS THEN Dictin REWOUND AND READ A SECOND TIME. DURING THIS SECOND PASS THE DICTIONARY OF EACH MAT IS REPLACED. THIS VERSION OF DICTIN Dictin DOES NOT USE SCRATCH FILES AND IS MORE EFFICIENT THAN EARLIER Dictin VERSIONS OF DICTIN. Dictin Dictin INPUT LINES Dictin _____ Dictin LINE COLS. DESCRIPTION Dictin ---------Dictin 1-60 ENDF/B INPUT DATA FILENAME Dictin (STANDARD OPTION = ENDFB.IN) Dictin 2 1-60 ENDF/B OUTPUT DATA FILENAME Dictin Dictin (STANDARD OPTION = ENDFB.OUT) Dictin EXAMPLE INPUT NO. 1 Dictin Dictin READ \ENDFB\K300\ENDFB.IN AND WRITE \ENDFB\K300\ENDFB.OUT. THE Dictin

Dictin

FOLLOWING 2 INPUT LINES ARE REQUIRED,

Dictin Di			Dictin
EXAMPLE INPUT NO. 2 USE THE DEFAULT FILENAMES TO READ ENDFB.IN AND WRITE ENDFB.OUT. Dictin D	- •	- · · ·	Dictin
EXAMPLE INPUT NO. 2 Use THE DEFAULT FILENAMES TO READ ENDFB.IN AND WRITE ENDFB.OUT. Dictin 2 BLANK INPUT LINES ARE REQUIRED INPUT FILES UNIT DESCRIPTION 2 INPUT PARAMETERS (BCD - 80 CHARACTERS/RECORD) 10 ORIGINAL TAPE OF ENDF/B DATA (BCD - 80 CHARACTERS/RECORD) OUTPUT FILES 3 OUTPUT REPORT (BCD - 120 CHARACTERS/RECORD) 11 FINAL TAPE OF ENDF/B DATA (BCD - 80 CHARACTERS/RECORD) Dictin OUTPUT REPORT (BCD - 120 CHARACTERS/RECORD) Dictin OPTIONAL STANDARD FILE NAMES (SEE SUBROUTINE FILIO1 AND FILIO2) Dictin OPTIONAL STANDARD FILE NAMES (SEE SUBROUTINE FILIO1 AND FILIO2) Dictin OUTPUT FILE NAME Dictin OPTIONAL STANDARD FILE NAMES (SEE SUBROUTINE FILIO1 AND FILIO2) Dictin Dictin ODICTIN DICTIN DICTIN DICTIN 3 DICTIN INP 3 DICTIN INP 3 DICTIN INF 3 DICTIN INST DICTIN	FB6\K	300\ENDFB.OUT	
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