 					Diatio
 					Dictin
рр∩срхм	חדכייד	N (Dename	d from	DICTION to eliminate conflict with	
FROGRAM	DICII			command - 12/22/02)	Dictin
======			ICCIOII	Command - 12/22/02)	Dictin
		 (SEPTEMBE	D 1021)		Dictin
		(JANUARY			Dictin
				*KEEP ORIGINAL MOD. NUMBER	Dictin
VERDION	05 1	(OMIOMICI	-		Dictin
VERSTON	84-1	(SEPTEMBE		*UPDATED TO HANDLE ENDF/B-VI FORMAT.	
		<b>,</b>		(PROGRAM WILL NOW WORK ON ALL	Dictin
				VERSIONS OF THE ENDF/B FORMAT).	Dictin
VERSION	85-1	(AUGUST 1	985)	*FORTRAN-77/H VERSION	Dictin
				*MAT ORDER CHECK.	Dictin
				*IF NO HOLLERITH SECTION COPY MAT.	Dictin
VERSION	88-1	(JULY 198	8)	*OPTIONINTERNALLY DEFINE ALL I/O	Dictin
				FILE NAMES (SEE, SUBROUTINE FILEIO	Dictin
				FOR DETAILS).	Dictin
					Dictin
VERSION	89-1	(JANUARY	1989)	*PSYCHOANALYZED BY PROGRAM FREUD TO	Dictin
				INSURE PROGRAM WILL NOT DO ANYTHING	
				CRAZY.	Dictin
					Dictin
	00 1	/ T33553 DIE	1000)		Dictin
VERSION	92-1	(JANUARY	1992)		Dictin Dictin
					Dictin
				SECTIONS FROM 0 TO 1	Dictin
VERSION	94-1	(.TANIIADV	1994)		Dictin
VERDION	J	(OMIONICI	1001)	·	Dictin
					Dictin
				HAS BEEN CHANGED)	Dictin
				*CLOSE ALL FILES BEFORE TERMINATING	Dictin
				(SEE, SUBROUTINE ENDIT)	Dictin
				*ADDED FORTRAN SAVE OPTION	Dictin
VERSION	96-1	(JANUARY	1996) *	COMPLETE RE-WRITE	Dictin
					Dictin
VEDCTON	00 1	(MADGII 10			Dictin
VERSION	33-1	(MARCH 19	•		Dictin Dictin
					Dictin
				VERSION BASED ON RECENT FORMAT CHANGE	
				GENERAL IMPROVEMENTS BASED ON	Dictin
				USER FEEDBACK	Dictin
VERS. 20	000-1	(FEBRUARY	2000)*	GENERAL IMPROVEMENTS BASED ON	Dictin
				USER FEEDBACK	Dictin
VERS. 20	002-1	(MAY 2002			Dictin
			*	RENAMED dictin TO ELIMINATE CONFLICT	Dictin
					Dictin
				ADDED DOCUMENTATION LINE TO COMMENTS.	
VERS. 20	04-1	(JAN. 200		GENERAL UPDATE BASED ON USER FEEDBACK	
			*	UP TO 100,000 SECTIONS PER TAPE.	Dictin
					Dictin
		LINED AND			Dictin
					Dictin
		ATA SECTION		CENCY	Dictin
		ATOMIC E	NERGY A	AGENC I	Dictin
P.O. BOX		IA, AUSTRI	Δ		Dictin Dictin
EUROPE	^ TEMI/	A AUSIKI			Dictin
LUNUPE					Dictin
ORIGINAT	LY WR	RITTEN BY			Dictin
					Dictin
DERMOTT	E. CU	JLLEN			Dictin
		CALIFORN	IA		Dictin

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LAWRENCE LIVERMORE NATIONAL LABORATORY	Dictin				
L-159	Dictin				
.O. BOX 808					
•	Dictin				
	Dictin				
	Dictin				
	Dictin Dictin				
	Dictin				
FOR THIS PROGRAM INCLUDING ALL RECENT IMPROVEMENTS. PLEASE READ	Dictin				
ALL OF THESE COMMENTS BEFORE IMPLEMENTATION.	Dictin				
	Dictin				
AT THE PRESENT TIME WE ARE ATTEMPTING TO DEVELOP A SET OF COMPUTER	Dictin				
	Dictin				
OF A WIDE VARIETY OF COMPUTERS. IN ORDER TO ASSIST IN THIS PROJECT					
	Dictin				
· · · · · · · · · · · · · · · · · · ·	Dictin				
·	Dictin Dictin				
	Dictin				
THIS PROGRAM IS DESIGNED TO CREATE A REACTION INDEX FOR EACH	Dictin				
MATERIAL ON AN ENDF/B FORMATTED TAPE AND TO INSERT THIS REACTION	Dictin				
INDEX IN FILE 1, SECTION 451 OF EACH MATERIAL.	Dictin				
	Dictin Dictin				
	Dictin				
	Dictin				
·	Dictin				
OF THE ENDF/B FORMAT (I.E., ENDF/B-I, II,III, IV, V OR VI FORMAT).					
	Dictin				
THIS PROGRAM WILL AUTOMATICALLY DETERMINE WHICH VERSION OF THE	Dictin				
ENDF/B FORMAT EACH MAT IS IN AND WILL THEN PROPERLY REPLACE THE	Dictin				
	Dictin Dictin				
	Dictin				
ENDF/B FORMAT VERSION	Dictin				
	Dictin				
THE ENDF/B FORMAT CAN BE DETERMINED FROM THE SECOND LINE OF	Dictin				
	Dictin				
·	Dictin				
	Dictin				
	Dictin				
	Dictin Dictin				
	Dictin				
NUMBER OF SECTIONS PER TAPE	Dictin				
	Dictin				
·	Dictin				
SECTIONS = 100,000 OR FEWER MAT, MF, MT COMBINATIONS. IF THIS LIMIT					
IS EXCEEDED THIS PROGRAM WILL TERMINATE EXECUTION. IF NEED BE THIS	pictin				
LIMIT CAN EASILY BE CHANGED BY CHANGING THE DIMENSION STATEMENT	Dictin				

	BELOW AND RE-DEFINING THE VARIABLE MAXTAB IN THE BELOW DATA	Dictin Dictin								
	STATEMENT. ALTERNATIVELY THE ENDF/B TAPE MAY BE DIVIDED INTO A									
	NUMBER SMALLER TAPES EACH CONTAINING 100,000 OR FEWER SECTIONS.	Dictin								
	EACH ENDF/B TAPE CAN THEN RUN THROUGH THIS PROGRAM AND THE OUTPUT									
	FOR EACH ENDF/B TAPE CAN THEN BE RE-COMBINED (I.E., MERGED BACK	Dictin								
	TOGETHER).	Dictin Dictin								
	HOLLERITH SECTION									
	IF ANY MATERIAL DOES NOT INITIALLY CONATIN A SECTION MF=1, MT=451									
	A WARNING MESSAGE WILL BE PRINTED AND THE MATERIAL WILL BE COPIED.									
	IF ANY MATERIAL INITIALLY CONTAINS A SECTION MF=1, MT=451 A NEW									
	REACTION INDEX WILL BE CREATED AND INSERTED. THE INITIAL SECTION MF=1, MT=451 MAY OR MAY NOT CONTAIN A REACTION INDEX.									
	IF THE MATERIAL INITIALLY CONTAINS A REACTION INDEX IT WILL BE									
	USED TO DEFINE THE MOD NUMBER FOR CORRESPONDING SECTIONS IN THE									
	NEW REACTION INDEX (I.E. IF A SECTION FROM THE ORIGINAL REACTION									
	NDEX HAS THE SAME MF/MT NUMBERS AS A SECTION IN THE NEW REACTION									
	NDEX THE MOD NUMBER FROM THE ORIGINAL REACTION INDEX WILL BE USED									
	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	Dictin								
	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	Dictin								
	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 1-60 ENDF/B INPUT DATA FILENAME	Dictin								
	(STANDARD OPTION = ENDFB.IN)	Dictin								
	2 1-60 ENDF/B OUTPUT DATA FILENAME	Dictin								
	(STANDARD OPTION = ENDFB.OUT)	Dictin								
	EXAMPLE INPUT NO. 1	Dictin								
		Dictin								
	READ \ENDFB6\K300\ENDFB.IN AND WRITE \ENDFB\K300\ENDFB.OUT. THE	Dictin								
	FOLLOWING 2 INPUT LINES ARE REQUIRED,	Dictin								
		Dictin								
\ENI	DFB6\K300\ENDFB.IN	Dictin								
\ENI	DFB6\K300\ENDFB.OUT	Dictin								
		Dictin								
	EXAMPLE INPUT NO. 2	Dictin								
		Dictin								
	USE THE DEFAULT FILENAMES TO READ ENDFB.IN AND WRITE ENDFB.OUT.	Dictin								
	2 BLANK INPUT LINES ARE REQUIRED	Dictin								
		Dictin								
	INPUT FILES	Dictin								
		Dictin								
	UNIT DESCRIPTION	Dictin								
		Dictin								
	2 INPUT PARAMETERS (BCD - 80 CHARACTERS/RECORD)	Dictin								
	10 ORIGINAL TAPE OF ENDF/B DATA (BCD - 80 CHARACTERS/RECORD)	Dictin								
	OUTPUT FILES	Dictin								
		Dictin								
	UNIT DESCRIPTION									
	3 OUTPUT REPORT (BCD - 120 CHARACTERS/RECORD)	Dictin								
	11 FINAL TAPE OF ENDF/B DATA (BCD - 80 CHARACTERS/RECORD)	Dictin								
	1									
	OPTIONAL STANDARD FILE NAMES (SEE SUBROUTINE FILIO1 AND FILIO2)	Dictin								
		Dictin								

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UNIT	FILE NAME	Dictin
		Dictin
2	DICTIN.INP	Dictin
3	DICTIN.LST	Dictin
10	ENDFB.IN	Dictin
11	ENDFB.OUT	Dictin
		Dictin
		Dictin