DDOGDAM	DICHT	N /Damamad foram	DIGMION to aliminate conflict with	Dict
PROGRAM	DICTI	•		Dict
		UNIX diction	command - 12/22/02)	Dict
VERCION	01 1	- /CEDMEMBED 1001	\	Dict
		(SEPTEMBER 1981 (JANUARY 1982))	Dict
		(JANUARY 1983)	*KEEP ORIGINAL MOD. NUMBER	Dict
VERSION	63-I	(UANUARI 1903)	_	Dict
VERSION	84-1	(SEDTEMBED 1984	· · · · · · · · · · · · · · · · · · ·	Dict
VERSION	04-1	(SEPTEMBER 1904	(PROGRAM WILL NOW WORK ON ALL	Dic
			VERSIONS OF THE ENDF/B FORMAT).	Dic
VERSION	85-1	(AIICIIST 1985)	*FORTRAN-77/H VERSION	Dic
		-	*MAT ORDER CHECK.	Dic
VERDION	00 -	(DIMOING 1500)	*IF NO HOLLERITH SECTION COPY MAT.	Dic
VERSTON	88-1	(JULY 1988)	*OPTIONINTERNALLY DEFINE ALL I/O	Dic
VERBION	00 -	(0011 1500)	FILE NAMES (SEE, SUBROUTINE FILEIO	Dic
			FOR DETAILS).	Dic
			*IMPROVED BASED ON USER COMMENTS.	Dic
VEDSTON	90_1	/.TANITADV 1000)	*PSYCHOANALYZED BY PROGRAM FREUD TO	Dic
VERSION	09-1	(UANUARI 1969)		Dic
			CRAZY.	Dic
			*IMPROVED BASED ON USER COMMENTS.	Dic
				_
			*ADDED LIVERMORE CIVIC COMPILER CONVENTIONS.	Dic Dic
			*UPDATED TO USE NEW PROGRAM CONVERT	Dic
			KEYWORDS.	Dic
VEDCTON	02_1	(JANUARY 1992)		Dic
VERSION	92-I	(UANOARI 1992)	*UP TO 6000 SECTIONS PER TAPE.	Dic
			*CHANGED DEFAULT MOD NUMBER FOR NEW	Dic
			SECTIONS FROM 0 TO 1	Dic
VEDSTON	01_1	/.TANITADV 100/1	*VARIABLE ENDF/B DATA FILENAMES	Dic
VERSION	94-I	(UANOARI 1994)	TO ALLOW ACCESS TO FILE STRUCTURES	Dic
			(WARNING - INPUT PARAMETER FORMAT	Dic
			HAS BEEN CHANGED)	Dic
			*CLOSE ALL FILES BEFORE TERMINATING	Dic
			(SEE, SUBROUTINE ENDIT)	Dic
			*ADDED FORTRAN SAVE OPTION	Dic
VEDSTON	96-1	(TANITADY 1006)	*COMPLETE RE-WRITE	Dic
VERSION	JU 1	(UANOAKI 1330)	*IMPROVED COMPUTER INDEPENDENCE	Dic
			*ALL DOUBLE PRECISION	Dic
			*ON SCREEN OUTPUT	Dic
			*UNIFORM TREATMENT OF ENDF/B I/O	Dic
			*IMPROVED OUTPUT PRECISION	Dic
VERSTON	99-1	(MARCH 1999)	*CORRECTED CHARACTER TO FLOATING	Dic
12102011	JJ <u> </u>	(1221011 2333)	POINT READ FOR MORE DIGITS	Dic
			*UPDATED TEST FOR ENDF/B FORMAT	Dic
			VERSION BASED ON RECENT FORMAT CHANGE	
			*GENERAL IMPROVEMENTS BASED ON	Dic
			USER FEEDBACK	Dic
VERS 20	000-1	(FEBRIIARY 2000)	*GENERAL IMPROVEMENTS BASED ON	Dic
·	,00 =	(ILDIOILAI LOOO)	USER FEEDBACK	Dic
VEDS 20	102-1	(MAY 2002)	*OPTIONAL INPUT PARAMETERS	Dic
VERS. 20	,OZ I		*RENAMED dictin TO ELIMINATE CONFLICT	
			WITH UNIX diction COMMAND.	Dic
			*ADDED DOCUMENTATION LINE TO COMMENTS.	
WEDS 20	104-1	(JAN. 2004)	*ADDED DOCUMENTATION LINE TO COMMENTS. *GENERAL UPDATE BASED ON USER FEEDBACK	_
vers. 20	,04-I			
TIPE OF	107 1		· · · · · · · · · · · · · · · · · · ·	Dic
vers. 20	,0 /-I	•		Dic
	07.2		*UP TO 500,000 SECTIONS PER TAPE. *72 CHARACTER FILE NAMES.	Dic
1700 C	ハ・ノーン	11001: 2001/1	^/Z CHARACTER FILE NAMES.	Dic
VERS. 20				D
VERS. 20	10-1	(Apr. 2010)	*General update based on user feedback *Added CODENAME	Dic

*32 and 64 bit Compatible	Dictin
*Added ERROR stops	Dictin
VERS. 2015-1 (Jan. 2015) *Corrected END = it was saying ERROR	
*Replaced ALL 3 way IF Statements.	Dictin
VERS. 2015-2 (Mar. 2015) *Corrected Sequence Numbers	Dictin
1) Restart at 1 for each MAT/MF/MT	
2) 99999 on section end, MT=0	Dictin
$3) \qquad 0 \text{ on } \mathbf{MF} = 0$	Dictin
VERS. 2017-1 (May 2017) *Updated based on user feedback.	Dictin
2015-2 Acknowledgment	Dictin Dictin
2015-2 Acknowledgment	Dictin
I thank Jean-Christophe Sublet (UKAEA) for contributing MAC	Dictin
executables and Bojan Zefran (IJS, Slovenia) for contributing	Dictin
LINUX (32 or 64 bit) executables. And most of all I must thank	Dictin
Andrej Trkov (NDS, IAEA) for overseeing the entire PREPRO project	
at IAEA, Vienna. This was a truly International team who worked	
together to produce PREPRO 2015-2.	Dictin
•	Dictin
OWNED, MAINTAINED AND DISTRIBUTED BY	Dictin
	Dictin
THE NUCLEAR DATA SECTION	Dictin
INTERNATIONAL ATOMIC ENERGY AGENCY	Dictin
P.O. BOX 100	Dictin
A-1400, VIENNA, AUSTRIA	Dictin
EUROPE	Dictin
	Dictin
ORIGINALLY WRITTEN BY	Dictin
	Dictin
Dermott E. Cullen	Dictin
	Dictin
PRESENT CONTACT INFORMATION	Dictin
	Dictin
Dermott E. Cullen	Dictin
1466 Hudson Way	Dictin
Livermore, CA 94550 U.S.A.	Dictin Dictin
Telephone 925-443-1911	Dictin
•	Dictin
E. Mail RedCullen1@Comcast.net Website RedCullen1.net/HOMEPAGE.NEW	Dictin
Nebbice Redoutient. He of Hormings . Han	Dictin
AUTHORS MESSAGE	Dictin
	Dictin
THE COMMENTS BELOW SHOULD BE CONSIDERED THE LATEST DOCUMENATION	Dictin
FOR THIS PROGRAM INCLUDING ALL RECENT IMPROVEMENTS. PLEASE READ	
ALL OF THESE COMMENTS BEFORE IMPLEMENTATION.	Dictin
	Dictin
AT THE PRESENT TIME WE ARE ATTEMPTING TO DEVELOP A SET OF COMPUT	FER Dictin
INDEPENDENT PROGRAMS THAT CAN EASILY BE IMPLEMENTED ON ANY ONE	Dictin
OF A WIDE VARIETY OF COMPUTERS. IN ORDER TO ASSIST IN THIS PROJE	ECT Dictin
IT WOULD BE APPECIATED IF YOU WOULD NOTIFY THE AUTHOR OF ANY	Dictin
COMPILER DIAGNOSTICS, OPERATING PROBLEMS OR SUGGESTIONS ON HOW !	
IMPROVE THIS PROGRAM. HOPEFULLY, IN THIS WAY FUTURE VERSIONS OF	Dictin
THIS PROGRAM WILL BE COMPLETELY COMPATIBLE FOR USE ON YOUR	Dictin
COMPUTER.	Dictin
	Dictin
PURPOSE	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	
INDEX IN FILE 1, SECTION 451 OF EACH MATERIAL.	Dictin
TN MUE DECORTONION MUM BOLLONG HOR CIVEL COMM. MUE TWO-/-	Dictin
IN THE DESCRIPTION THAT FOLLOWS FOR SIMPLICITY THE ENDF/B	Dictin

TERMINOLOGY---ENDF/B TAPE---WILL BE USED. IN FACT THE ACTUAL Dictin MEDIUM MAY BE TAPE, CARDS, DISK, OR ANY OTHER MEDIUM. Dictin Dictin ENDF/B FORMAT Dictin Dictin THIS PROGRAM ONLY USES THE ENDF/B BCD OR CARD IMAGE FORMAT (AS Dictin OPPOSED TO THE BINARY FORMAT) AND CAN HANDLE DATA IN ANY VERSION 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 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 EVEN BE IN DIFFERENT VERSIONS OF THE ENDF/B FORMAT. Dictin Dictin IT IS ASSUMED THAT THE DATA IS CORRECTLY CODED IN THE ENDF/B 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 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 Dictin SINCE THIS PROGRAM ONLY READS THE DATA ONE LINE AT A TIME THERE 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 Dictin 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 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 -----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 Dictin REACTION INDEX WILL BE CREATED AND INSERTED. THE INITIAL SECTION 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 Dictin 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 Dictin

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

Dictin

REACTION INDEX WILL BE SET EQUAL TO ZERO.

DD ^ ~-	DAM ODEDAMION	Dictin
	RAM OPERATION	Dictin
		Dictin
	ENTIRE ENDF/B TAPE IS FIRST READ AND A DICTIONARY ENTRY IS	
	TED FOR EACH SECTION OF THE TAPE. THE ENDF/B TAPE IS THEN	Dictin
	UND AND READ A SECOND TIME. DURING THIS SECOND PASS THE	Dictin
	IONARY OF EACH MAT IS REPLACED. THIS VERSION OF DICTIN	Dictin
	NOT USE SCRATCH FILES AND IS MORE EFFICIENT THAN EARLIER	
VERSI	IONS OF DICTIN.	Dictin
TAIDIII	T TARK	Dictin
	I LINES	Dictin
	NE COLS. DESCRIPTION	Dictin Dictin
	NE COLS. DESCRIPTION	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
	(OTTENDED OF TON - ENDED.OOT)	Dictin
EXAME	PLE INPUT NO. 1	Dictin
		Dictin
READ	\ENDFB6\K300\ENDFB.IN AND WRITE \ENDFB\K300\ENDFB.OUT. THE	
	OWING 2 INPUT LINES ARE REQUIRED,	Dictin
		Dictin
FB6\K	K300\ENDFB.IN	Dictin
FB6\K	K300\ENDFB.OUT	Dictin
•	•	
		Dictin
EXAMP	PLE INPUT NO. 2	Dictin Dictin
	PLE INPUT NO. 2	
		Dictin Dictin
USE T		Dictin Dictin
USE T		Dictin Dictin Dictin
USE T		Dictin Dictin Dictin Dictin
USE T 2 BLA INPUT	THE DEFAULT FILENAMES TO READ ENDFB.IN AND WRITE ENDFB.OUT. ANK INPUT LINES ARE REQUIRED	Dictin Dictin Dictin Dictin Dictin
USE T 2 BLA INPUT	THE DEFAULT FILENAMES TO READ ENDFB.IN AND WRITE ENDFB.OUT. ANK INPUT LINES ARE REQUIRED FILES	Dictin Dictin Dictin Dictin Dictin Dictin
USE T BLA INPUT	THE DEFAULT FILENAMES TO READ ENDFB.IN AND WRITE ENDFB.OUT. ANK INPUT LINES ARE REQUIRED FILES	Dictin Dictin Dictin Dictin Dictin Dictin Dictin
USE T BLA INPUT UNIT CONTRACT 2	THE DEFAULT FILENAMES TO READ ENDFB.IN AND WRITE ENDFB.OUT. ANK INPUT LINES ARE REQUIRED F FILES DESCRIPTION INPUT PARAMETERS (BCD - 80 CHARACTERS/RECORD)	Dictin
USE T BLA INPUT UNIT CONTRACT 2	THE DEFAULT FILENAMES TO READ ENDFB.IN AND WRITE ENDFB.OUT. ANK INPUT LINES ARE REQUIRED I FILES DESCRIPTION	Dictin
USE T BLA INPUT UNIT CONTRACT 2	THE DEFAULT FILENAMES TO READ ENDFB.IN AND WRITE ENDFB.OUT. ANK INPUT LINES ARE REQUIRED F FILES DESCRIPTION INPUT PARAMETERS (BCD - 80 CHARACTERS/RECORD)	Dictin
USE T 2 BLA INPUT UNIT 2	THE DEFAULT FILENAMES TO READ ENDFB.IN AND WRITE ENDFB.OUT. ANK INPUT LINES ARE REQUIRED F FILES DESCRIPTION INPUT PARAMETERS (BCD - 80 CHARACTERS/RECORD)	Dictin
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USE T BLA INPUT UNIT 2 10 OUTPU	THE DEFAULT FILENAMES TO READ ENDFB.IN AND WRITE ENDFB.OUT. ANK INPUT LINES ARE REQUIRED F FILES DESCRIPTION INPUT PARAMETERS (BCD - 80 CHARACTERS/RECORD) ORIGINAL TAPE OF ENDF/B DATA (BCD - 80 CHARACTERS/RECORD)	Dictin
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USE TE LE	THE DEFAULT FILENAMES TO READ ENDFB.IN AND WRITE ENDFB.OUT. ANK INPUT LINES ARE REQUIRED I FILES DESCRIPTION INPUT PARAMETERS (BCD - 80 CHARACTERS/RECORD) ORIGINAL TAPE OF ENDF/B DATA (BCD - 80 CHARACTERS/RECORD) UT FILES DESCRIPTION OUTPUT REPORT (BCD - 120 CHARACTERS/RECORD)	Dictin
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