 				LINEAR
		_		LINEAR
PROGRAM				LINEAR
				LINEAR
		(MAY 1974)		LINEAR
		(APRIL 1975) (OCTOBER 1976)		LINEAR
		(JANUARY 1977)		LINEAR LINEAR
		(JULY 1978)		LINEAR
		• •		LINEAR
				LINEAR
		(DECEMBER 1980	•	LINEAR
VERSION	81-1	(MARCH 1981)		LINEAR
VERSION	82-1	(JANUARY 1982)	IMPROVED COMPUTER COMPATIBILITY.	LINEAR
VERSION	83-1	(JANUARY 1983)	*MAJOR RE-DESIGN.	LINEAR
			*PAGE SIZE INCREASED - 1002 TO 3006.	LINEAR
			*ELIMINATED COMPUTER DEPENDENT CODING	
			*NEW, MORE COMPATIBLE I/O UNIT NUMBER.	
				LINEAR
			ENERGY POINTS FROM EVALUATION.	LINEAR
			*ADDED STANDARD ALLOWABLE ERROR OPTION	
IEDOTON	02.0	(00000000 1002)		LINEAR
			IMPROVED BASED ON USER COMMENTS. IMPROVED BASED ON USER COMMENTS.	LINEAR LINEAR
			*UPDATED FOR ENDF/B-6 FORMATS.	LINEAR
VERSION	04 2	• •	*SPECIAL I/O ROUTINES TO GUARANTEE	LINEAR
			ACCURACY OF ENERGY.	LINEAR
			*DOUBLE PRECISION TREATMENT OF ENERGY	
			(REQUIRED FOR NARROW RESONANCES).	LINEAR
VERSION	85-1	(AUGUST 1985)	*FORTRAN-77/H VERSION	LINEAR
			*ENDF/B-6 FORMAT	LINEAR
VERSION	87-1	(JANUARY 1987)	*DOUBLE PRECISION TREATMENT OF CROSS	LINEAR
			SECTION	LINEAR
VERSION	88-1	(JULY 1988)	*OPTIONINTERNALLY DEFINE ALL I/O	LINEAR
			FILE NAMES (SEE, SUBROUTINE FILEIO FOR DETAILS).	LINEAR LINEAR
			*IMPROVED BASED ON USER COMMENTS.	LINEAR
VERSION	89-1		*PSYCHOANALYZED BY PROGRAM FREUD TO	LINEAR
		(,	INSURE PROGRAM WILL NOT DO ANYTHING	LINEAR
			CRAZY.	LINEAR
			*UPDATED TO USE NEW PROGRAM CONVERT	LINEAR
			KEYWORDS.	LINEAR
			*ADDED LIVERMORE CIVIC COMPILER	LINEAR
	00 1	(	CONVENTIONS.	LINEAR
VERSION	90-1	(JUNE 1990)	*EXTENDED TO LINEARIZE PHOTON INTERACTION DATA, MF=23 AND 27	LINEAR LINEAR
			*ADDED FORTRAN SAVE OPTION	LINEAR
			*UPDATED BASED ON USER COMMENTS.	LINEAR
			*NEW MORE CONSISTENT ENERGY OUTPUT	LINEAR
			ROUTINE.	LINEAR
			*WARNINGINPUT PARAMETER FORMAT	LINEAR
			HAS BEEN CHANGEDSEE DESCRIPTION	LINEAR
			BELOW.	LINEAR
VERSION	91-1	(JULY 1991)	*ADDED INTERPOLATION LAW 6 - ONLY USED	
				LINEAR
VERSION	02-1	(TANILLADY 1002)	FOR COULOMB PENETRABILITIES. *ADDED NU-BAR (TOTAL, DELAYED, PROMPT)	LINEAR
VERSION	92 I	(UANOARI 1992)	POLYNOMIAL OR TABULATED ALL CONVERTED	
			TO LINEARLY INTERPOLABLE	LINEAR
			*INCREASED PAGE SIZE FROM 3006 TO 5010	
			POINTS.	LINEAR
			*ALL ENERGIES INTERNALLY ROUNDED PRIOR	LINEAR
			TO CALCULATIONS.	LINEAR
			*COMPLETELY CONSISTENT I/O AND ROUNDING	
			ROUTINES - TO MINIMIZE COMPUTER	LINEAR
			DEPENDENCE.	LINEAR
VERSION	92-2	(JULY 1992)	*CORRECTED CONVERSION OF NU-BAR FROM	
			POLYNOMIAL TO TABULATED - COPY SPONTANEOUS NU-BAR (BY DEFINITION	LINEAR LINEAR
			THE SPONTANEOUS NU-BAR (BY DEFINITION THE SPONTANEOUS NU-BAR IS NOT AN	LINEAR
			ENERGY DEPENDENT QUANTITY).	LINEAR
			~, ·	

VERSION 93-1	(MARCH 1993)	*UPDATED FOR USE WITH LAHEY COMPILER	LINEAR
		ON IBM-PCS.	LINEAR
		*INCREASED PAGE SIZE FROM 5010 TO	LINEAR
		30000 POINTS	LINEAR
VERSION 94-1	(JANUARY 1994)	*VARIABLE ENDF/B DATA FILENAMES	LINEAR
		TO ALLOW ACCESS TO FILE STRUCTURES	LINEAR
		(WARNING - INPUT PARAMETER FORMAT	LINEAR
		HAS BEEN CHANGED)	LINEAR
		*CLOSE ALL FILES BEFORE TERMINATING (SEE, SUBROUTINE ENDIT)	LINEAR LINEAR
VEDSTON 06-1	(TANILADY 1996)	*COMPLETE RE-WRITE	LINEAR
VERSION 90-1	(DANOARI 1990)	*IMPROVED COMPUTER INDEPENDENCE	LINEAR
		*ALL DOUBLE PRECISION	LINEAR
		*ON SCREEN OUTPUT	LINEAR
		*UNIFORM TREATMENT OF ENDF/B I/O	LINEAR
		*IMPROVED OUTPUT PRECISION	LINEAR
		*DEFINED SCRATCH FILE NAMES	LINEAR
		*ALWAYS INCLUDE THERMAL VALUE	LINEAR
		*INCREASED PAGE SIZE FROM 30000 TO	LINEAR
		60000 POINTS	LINEAR
VERSION 99-1	(MARCH 1999)	*CORRECTED CHARACTER TO FLOATING	LINEAR
		POINT READ FOR MORE DIGITS	LINEAR
		*UPDATED TEST FOR ENDF/B FORMAT	LINEAR
		VERSION BASED ON RECENT FORMAT CHANG	
		*GENERAL IMPROVEMENTS BASED ON	LINEAR
VERSION 99-2	(TIME 1000)	USER FEEDBACK *ASSUME ENDF/B-VI, NOT V, IF MISSING	LINEAR
VERSION 99-2	(DONE 1999)	MF=1, MT-451.	LINEAR
VERS 2000-1	(FEBRIJARY 2000	)*ADDED MF = 9 AND 10 LINEARIZATION	LINEAR
12100. 2000 1	(122101201 2000	*GENERAL IMPROVEMENTS BASED ON	LINEAR
		USER FEEDBACK	LINEAR
VERS. 2002-1	(MAY 2002)	<b>*OPTIONAL INPUT PARAMETERS</b>	LINEAR
VERS. 2004-1	(JAN. 2004)	*GENERAL UPDATE BASED ON USER FEEDBAC	KLINEAR
VERS. 2005-1	(JAN. 2005)	*ALWAYS KEEP ORIGINAL TABULATED	LINEAR
		NU-BAR POINTS.	LINEAR
VERS. 2006-1	(FEB. 2006)	*CORRECTED INT=6 NEAR THRESHOLD	LINEAR
		*NO SUBDIVIDE BELOW MINIMUM XCLOW	LINEAR
VERS. 2007-1	(JAN. 2007)	*CHECKED AGAINST ALL ENDF/B-VII.	LINEAR
		*INCREASED PAGE SIZE FROM 60,000 TO	LINEAR
		600,000 POINTS	LINEAR
VERS. 2007-2		*72 CHARACTER FILE NAMES.	LINEAR
VERS. 2010-1	(Apr. 2010)	*Skipped leading cross section = 0 up to effective start, unless keepin	LINEAR
		ALL original energy points.	LINEAR
		*Replaced ETHRES by ESTART - it is	LINEAR
		not a threshold - just a minimum	LINEAR
		energy - if a section starts above	LINEAR
		this energy with a positive cross	LINEAR
		section, an additional point will	LINEAR
		inserted with cross section = $0$ .	LINEAR
VERS. 2012-1	(Aug. 2012)	*Minor Updates based on User Feedback	.LINEAR
		*Added CODENAME	LINEAR
		*32 and 64 bit Compatible	LINEAR
		*Added ERROR stops.	LINEAR
VERS. 2012-2		*Never thin nu-bar.	LINEAR
VERS. 2013-1		*Extended OUT9.	LINEAR
VERS. 2015-1	(Jan. 2015)	*Allow Imaginary Anomolous Scattering	
		Factor to be Negative (MF/MT=27/506)	
1777 DC 2016-1	(Turne 2016)	*Replaced ALL 3 way IF Statements.	LINEAR
VERS. 2016-1	(June 2010)	*Cosmetic changes based on FREUD psychoanalysis.	LINEAR LINEAR
VERS. 2017-1	(May 2017)	*Updated based on user feedback.	LINEAR
		*Inceased page size to 3,000,000.	LINEAR
		*All floating input parameters change	
		to character input + IN9 conversion.	
VERS. 2018-1	(Dec. 2018)	*Updated based on user feedback.	LINEAR
		*Added on-line output for ALL ENDERRO	RLINEAR
VERS. 2019-1	(June 2019)	*Additional Interpolation Law Tests	LINEAR
		*Checked Maximum Tabulated Energy to	LINEAR
		insure it is the same for all MTs -	LINEAR
		if not, print WARNING messages.	LINEAR

*Corrected END Histogram linearized	
Previously assumed $Y = 0$ and delete	
now whatever the value it is includ	
VERS. 2020-1 (Dec. 2020) *Major Re-write of Convergence *Replaced INCORE9 by INCORE10.	LINEAR LINEAR
*Added Target Isomer Flag	LINEAR
*Keep iterating toward MAX & MIN	LINEAR
VERS. 2021-1 (Mar. 2021) *Complete re-write of convergence.	LINEAR
*Optionlly add MF/MT=1/451 comments	LINEAR
*Updated from FORTRAN 2018	LINEAR
*Minimum Cross Section is no longer	LINEAR
an input option = set to 1.0d-30.	LINEAR
VERS. 2023-1 (Feb. 2023) *Decreased in-core page size from	LINEAR
6,000,000 ro 120,000	LINEAR
OWNED, MAINTAINED AND DISTRIBUTED BY	LINEAR LINEAR
	LINEAR
THE NUCLEAR DATA SECTION	LINEAR
INTERNATIONAL ATOMIC ENERGY AGENCY	LINEAR
P.O. BOX 100	LINEAR
A-1400, VIENNA, AUSTRIA	LINEAR
EUROPE	LINEAR
	LINEAR
ORIGINALLY WRITTEN BY	LINEAR
	LINEAR
Dermott E. Cullen	LINEAR
	LINEAR
PRESENT CONTACT INFORMATION	LINEAR LINEAR
Dermott E. Cullen	LINEAR
1466 Hudson Way	LINEAR
Livermore, CA 94550	LINEAR
U.S.A.	LINEAR
Telephone 925-443-1911	LINEAR
E. Mail RedCullen1@Comcast.net	LINEAR
Website RedCullen1.net/HOMEPAGE.NEW	LINEAR
	LINEAR
AUTHORS MESSAGE	
	LINEAR
	LINEAR
THE REPORT DESCRIBED ABOVE IS THE LATEST PUBLISHED DOCUMENTATION	LINEAR LINEAR
THE REPORT DESCRIBED ABOVE IS THE LATEST PUBLISHED DOCUMENTATION FOR THIS PROGRAM. HOWEVER, THE COMMENTS BELOW SHOULD BE CONSIDER	LINEAR LINEAR EDLINEAR
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ASSUMED THAT THE MAT, MF AND MT ON EACH LINE IS CORRECT. SEQUENCE LINEAR NUMBERS (COLUMNS 76-80) ARE IGNORED ON INPUT, BUT WILL BE LINEAR CORRECTLY OUTPUT ON ALL LINES. THE FORMAT OF SECTION MF=1, MT=451 LINEAR AND ALL SECTIONS OF MF=3 MUST BE CORRECT. THE PROGRAM COPIES ALL LINEAR OTHER SECTION OF DATA AS HOLLERITH AND AS SUCH IS INSENSITIVE TO LINEAR THE CORRECTNESS OR INCORRECTNESS OF ALL OTHER SECTIONS. LINEAR T.TNEAR OUTPUT FORMAT LINEAR LINEAR IN THIS VERSION OF LINEAR ALL ENERGIES WILL BE OUTPUT IN LINEAR F (INSTEAD OF E) FORMAT IN ORDER TO ALLOW ENERGIES TO BE WRITTEN LINEAR WITH UP TO 9 DIGITS OF ACCURACY. IN PREVIOUS VERSIONS THIS WAS AN LINEAR OUTPUT OPTION. HOWEVER USE OF THIS OPTION TO COMPARE THE RESULTS LINEAR OF ENERGIES WRITTEN IN THE NORMAL ENDF/B CONVENTION OF 6 DIGITS T.TNEAR TO THE 9 DIGIT OUTPUT FROM THIS PROGRAM DEMONSTRATED THAT FAILURE LINEAR TO USE THE 9 DIGIT OUTPUT CAN LEAD TO LARGE ERRORS IN THE DATA **LINEAR** DUE TO TRUNCATION OF ENERGIES TO 6 DIGITS DURING OUTPUT. LINEAR LINEAR CONTENTS OF OUTPUT LINEAR LINEAR ENTIRE EVALUATIONS ARE OUTPUT, NOT JUST THE LINEARIZED DATA LINEAR CROSS SECTIONS, E.G. ANGULAR AND ENERGY DISTRIBUTIONS ARE ALSO LINEAR INCLUDED. T.TNEAR LINEAR DOCUMENTATION LINEAR \_\_\_\_\_ LINEAR THE FACT THAT THIS PROGRAM HAS OPERATED ON THE DATA IS DOCUMENTED LINEAR BY THE ADDITION OF 3 COMMENT LINES AT THE END OF EACH HOLLERITH LINEAR SECTION IN THE FORM LINEAR T.TNEAR LINEAR FOR ALL DATA GREATER THAN 1.00000-30 IN ABSOLUTE VALUE LINEAR DATA LINEARIZED TO WITHIN AN ACCURACY OF 0.1 PER-CENT LINEAR LINEAR THE ORDER OF SIMILAR COMMENTS (FROM RECENT, SIGMA1 AND GROUPIE) LINEAR REPRESENTS A COMPLETE HISTORY OF ALL OPERATIONS PERFORMED ON LINEAR THE DATA BY THESE PROGRAMS. T.TNEAR LINEAR THESE COMMENT LINES ARE ONLY ADDED TO EXISTING HOLLERITH SECTIONS, LINEAR I.E., THIS PROGRAM WILL NOT CREATE A HOLLERITH SECTION. THE FORMATLINEAR OF THE HOLLERITH SECTION IN ENDF/B-V DIFFERS FROM THE THAT OF LINEAR EARLIER VERSIONS OF ENDF/B. BY READING AN EXISTING MF=1, MT=451 LINEAR IT IS POSSIBLE FOR THIS PROGRAM TO DETERMINE WHICH VERSION OF LINEAR THE ENDF/B FORMAT THE DATA IS IN. WITHOUT HAVING A SECTION OF T.TNEAR MF=1, MT=451 PRESENT IT IS IMPOSSIBLE FOR THIS PROGRAM TO LINEAR DETERMINE WHICH VERSION OF THE ENDF/B FORMAT THE DATA IS IN, AND LINEAR AS SUCH IT IS IMPOSSIBLE FOR THE PROGRAM TO DETERMINE WHAT FORMAT LINEAR SHOULD BE USED TO CREATE A HOLLERITH SECTION. LINEAR **LTNEAR** REACTION INDEX **LINEAR LTNEAR** \_\_\_\_\_ THIS PROGRAM DOES NOT USE THE REACTION INDEX WHICH IS GIVEN IN LINEAR SECTION MF=1. MT=451 OF EACH EVALUATION. LINEAR LINEAR THIS PROGRAM DOES NOT UPDATE THE REACTION INDEX IN MF=1, MT=451. LINEAR THIS CONVENTION HAS BEEN ADOPTED BECAUSE MOST USERS DO NOT LINEAR REQUIRE A CORRECT REACTION INDEX FOR THEIR APPLICATIONS AND IT WASLINEAR NOT CONSIDERED WORTHWHILE TO INCLUDE THE OVERHEAD OF CONSTRUCTING LINEAR A CORRECT REACTION INDEX IN THIS PROGRAM. HOWEVER, IF YOU REQUIRE LINEAR A REACTION INDEX FOR YOUR APPLICATIONS, AFTER RUNNING THIS PROGRAMLINEAR YOU MAY USE PROGRAM DICTIN TO CREATE A CORRECT REACTION INDEX. LINEAR LINEAR SECTION SIZE LINEAR **LTNEAR** SINCE THIS PROGRAM USES A LOGICAL PAGING SYSTEM THERE IS NO LIMIT LINEAR TO THE NUMBER OF POINTS IN ANY SECTION, E.G., THE TOTAL CROSS LINEAR SECTION MAY BE REPRESENTED BY 200,000 DATA POINTS. LINEAR LINEAR FOR ANY LINEARIZED SECTION THAT CONTAINS 60000 OR FEWER POINTS LINEAR THE ENTIRE OPERATION WILL BE PERFORMED IN CORE AND THE LINEARIZED LINEAR DATA WILL BE OUTPUT DIRECTLY TO THE ENDF/B FORMAT. FOR ANY SECTIONLINEAR

THAT CONTAINS MORE POINTS THE DATA WILL BE LINEARIZED A PAGE AT A TIME (1 PAGE = 60000 POINTS) AND OUTPUT TO SCRATCH. AFTER THE	LINEAR LINEAR
ENTIRE SECTION HAS BEEN LINEARIZED THE DATA WILL BE READ BACK FROM	ILINEAR
SCRATCH AND OUTPUT TO THE ENDF/B FORMAT.	LINEAR
	LINEAR
SELECTION OF DATA	LINEAR
	LINEAR
THE PROGRAM SELECTS DATA TO BE LINEARIZED BASED EITHER ON EITHER	LINEAR
MAT (ENDF/B MAT NO.) OR ZA AS WELL AS MF AND MT NUMBERS. THIS	LINEAR
PROGRAM ALLOWS UP TO 100 MAT/MF/MT OR ZA/MF/MT RANGES TO BE	LINEAR
SPECIFIED BY INPUT PARAMETERS. THE PROGRAM WILL ASSUME THAT THE	
	LINEAR
ENDF/B TAPE IS IN MAT ORDER, REGARDLESS OF THE CRITERIA USED	LINEAR
TO RETRIEVE MATERIALS. IF RETRIEVAL IS BY MAT RANGE THE PROGRAM	LINEAR
WILL TERMINATE WHEN A MAT IS FOUND THAT IS ABOVE ALL REQUESTED	LINEAR
MAT RANGES. IF RETRIEVAL IS BY ZA RANGE THE PROGRAM WILL SEARCH	LINEAR
THE ENTIRE ENDF/B TAPE.	LINEAR
	LINEAR
PROGRAM OPERATION	LINEAR
	LINEAR
EACH SECTION OF DATA IS CONSIDERED SEPARATELY. EACH SECTION OF	LINEAR
ENDF/B DATA TO LINEARIZE IS REPRESENTED BY A TABLE OF ENERGY	LINEAR
VS. CROSS SECTION AND ANY ONE OF FIVE ALLOWABLE INTERPOLATION LAWS	LINEAR
BETWEEN ANY TWO TABULATED POINTS. THIS PROGRAM WILL REPLACE EACH	LINEAR
SECTION OF DATA CROSS SECTIONS BY A NEW TABLE OF ENERGY VS.	LINEAR
CROSS SECTION IN WHICH THE INTERPOLATION LAW IS ALWAYS LINEAR IN	LINEAR
ENERGY AND CROSS SECTION BETWEEN ANY TWO TABULATED POINTS.	LINEAR
ENERGY AND CROSS SECTION DETWEEN ANT TWO TREDURTED FOTNIS.	LINEAR
THE TO DEAD AND ITWEADINGS & DAGE AN A MINE (ONE DAGE COMPANY)	
DATA IS READ AND LINEARIZED A PAGE AT A TIME (ONE PAGE CONTAINS	LINEAR
60000 DATA POINTS). IF THE FINAL LINEARIZED SECTION CONTAINS TWO	LINEAR
PAGES OR LESS, DATA POINTS IT WILL BE ENTIRELY CORE RESIDENT	LINEAR
AFTER IT HAS BEEN LINEARIZED AND WILL BE WRITTEN DIRECTLY FROM	LINEAR
CORE TO THE OUTPUT TAPE. IF THE LINEARIZED SECTION IS LARGER THAN	LINEAR
TWO PAGES, AFTER EACH PAGE IS LINEARIZED IT WILL BE WRITTEN TO	LINEAR
SCRATCH. AFTER THE ENTIRE SECTION HAS BEEN LINEARIZED IT WILL	LINEAR
BE READ BACK FROM SCRATCH, TWO PAGES AT A TIME, AND WRITTEN TO	LINEAR
THE OUTPUT TAPE.	LINEAR
	LINEAR
KEEP EVALUATED DATA POINTS	LINEAR
	LINEAR
SOMETIMES IT IS CONVENIENT TO KEEP ALL ENERGY POINTS WHICH WERE	LINEAR
PRESENT IN THE ORIGINAL EVALUATION AND TO MERELY SUPPLEMENT THESE	
PRESENT IN THE ORIGINAL EVALUATION AND TO MERCHI SOFFEEMENT THESE POINTS WITH ADDITIONAL ENERGY POINTS IN ORDER TO LINEARIZE THE	
	LINEAR
CROSS SECTIONS. FOR EXAMPLE, IT IS OFTEN CONVENIENT TO KEEP THE	LINEAR
THERMAL VALUE (AT 0.0253 EV) OR THE VALUE AT 14.1 MEV.	LINEAR
	LINEAR
THE CURRENT VERSION OF THIS PROGRAM WILL ALLOW THE USER TO KEEP	LINEAR
ALL ORIGINAL EVALUATED DATA POINTS BY SPECIFYING 1 IN COLUMNS	LINEAR
34-44 OF THE FIRST INPUT LINE. THIS WILL TURN OFF THE BACKWARD	LINEAR
THINNING (SEE UCRL-50400, VOL. 17, PART A FOR EXPLANATION) AND	LINEAR
RESULT IN ALL ORIGINAL ENERGY POINTS BEING KEPT. CAUTION SHOULD	LINEAR
BE EXERCISED IN USING THIS OPTION SINCE IT CAN RESULT IN A	LINEAR
CONSIDERABLE INCREASE IN THE NUMBER OF DATA POINTS OUTPUT BY	LINEAR
THIS CODE.	LINEAR
	LINEAR
FOR ALL USERS WHO ARE NOT INTERESTED IN THIS OPTIONS NO CHANGES	LINEAR
ARE REQUIRED IN THE INPUT TO THIS PROGRAM, I. E. IF COLUMNS	LINEAR
34-44 ARE BLANK (AS FOR ALL PREVIOUS VERSIONS OF THIS CODE) THE	LINEAR
PROGRAM WILL OPERATE EXACTLY AS IT DID BEFORE.	LINEAR
INGINE WIDE VERNIE EARCIEL AG IL DID DEFURE.	
	LINEAR
ALLOWABLE ERROR	LINEAR
	LINEAR
ALLOWABLE ERROR MUST ALWAYS BE SPECIFIED IN THE INPUT TO THIS	LINEAR
PROGRAM AS A FRACTION, NOT A PER-CENT. FOR EXAMPLE, INPUT THE	LINEAR
ALLOWABLE FRACTIONAL ERROR 0.001 IN ORDER TO OBTAIN DATA THAT IS	LINEAR
ACCURATE TO WITHIN 0.1 PER-CENT.	LINEAR
	LINEAR
THE CONVERSION OF THE DATA FROM THE GENERAL INTERPOLATION FORM TO	LINEAR
LINARLY INTERPOLABLE FORM CANNOT BE PERFORMED EXACTLY. HOWEVER, II	LINEAR
CAN BE PERFORMED TO VIRTUALLY ANY REQUIRED ACCURACY AND MOST	LINEAR
IMPORTANTLY CAN BE PERFORMED TO A TOLERANCE THAT IS SMALL COMPARED	
	LINEAR

CONVERSION OF CROSS SECTIONS TO LINEARLY INTERPOLABLE FORM CAN BE LINEAR PERFORMED WITH ESSENTIALLY NO LOSE OF INFORMATION. LINEAR LINEAR THE ALLOWABLE ERROR MAY BE ENERGY INDEPENDENT (CONSTANT) OR ENERGYLINEAR DEPENDENT. THE ALLOWABLE ERROR IS DESCRIBED BY A TABULATED LINEAR FUNCTION OF UP TO 20 (ENERGY, ERROR) PAIRS AND LINEAR INTERPOLATIONLINEAR BETWEEN TABULATED POINTS. IF ONLY ONE TABULATED POINT IS GIVEN THELINEAR ERROR WILL BE CONSIDERED CONSTANT OVER THE ENTIRE ENERGY RANGE. LINEAR WITH THIS ENERGY DEPENDENT ERROR ONE MAY OPTIMIZE THE OUTPUT FOR LINEAR ANY GIVEN APPLICATION BY USING A SMALL ERROR IN THE ENERGY RANGE LINEAR OF INTEREST AND A LESS STRINGENT ERROR IN OTHER ENERGY RANGES. LINEAR LINEAR DEFAULT ALLOWABLE ERROR **LINEAR LTNEAR** IN ORDER TO INSURE CONVERGENCE OF THE LINEARIZING ALGORITHM THE LINEAR ALLOWABLE ERROR MUST BE POSITIVE. IF THE USER INPUTS AN ERROR LINEAR THAT IS NOT POSITIVE IT WILL AUTOMATICALLY BE SET TO THE DEFAULT LINEAR VALUE (CURRENTLY 0.001, CORRESPONDING TO 0.1 PER-CENT) AND LINEAR INDICATED AS SUCH IN THE OUTPUT LISTING. LINEAR LINEAR COULOMB PENETRABILITY (INTERPOLATION LAW = 6) LINEAR LINEAR INTRODUCED FOR ENDF/B-VI. THIS IS DEFINED AS, **LTNEAR** LINEAR  $SIG(E) = C1 \times EXP(-C2/SORT(E - T))$ LINEAR LINEAR THIS PROGRAM ONLY CONSIDERS EXOTHERMIC REACTIONS - T = 0 LINEAR LINEAR  $SIG(E) = C1 \times EXP(-C2/SQRT(E))$ LINEAR T.TNEAR WARNING...THIS INTERPOLATION LAW SHOULD ONLY BE USED FOR REACTIONSLINEAR WHICH HAVE A POSITIVE Q-VALUE (EXOTHERMIC REACTIONS), LINEAR SINCE HERE WE ONLY CONSIDER T = 0.0 IN THE FORMALISM. LINEAR IN ALL OTHER CASES A WARNING MESSAGE WILL BE PRINTED. LINEAR LINEAR INPUT FILES LINEAR \_\_\_\_\_ **LTNEAR** UNIT DESCRIPTION LINEAR \_\_\_\_ \_\_\_\_\_ LINEAR 2 INPUT LINES (BCD - 80 CHARACTERS/RECORD) LINEAR 10 ORIGINAL ENDF/B DATA (BCD - 80 CHARACTERS/RECORD) LINEAR LINEAR OUTPUT FILES LINEAR \_\_\_\_\_ LINEAR UNIT DESCRIPTION LINEAR LINEAR \_\_\_\_ \_\_\_\_\_ 3 OUTPUT REPORT (BCD - 120 CHARACTERS/RECORD) LINEAR 11 FINAL ENDF/B DATA (BCD - 80 CHARACTERS/RECORD) LINEAR LINEAR SCRATCH FILES LINEAR \_\_\_\_\_ LINEAR UNIT DESCRIPTION LINEAR \_\_\_\_\_ LINEAR 12 SCRATCH FILE (BINARY - 180000 WORDS/RECORD LINEAR LINEAR OPTIONAL STANDARD FILE NAMES (SEE SUBROUTINE FILEIO) LINEAR LINEAR UNIT FILE NAME LINEAR \_\_\_\_\_ LINEAR 2 LINEAR, INP T.TNEAR 3 LINEAR.LST LINEAR 10 ENDFB.IN LINEAR 11 ENDFB.OUT LINEAR 12 (SCRATCH) LINEAR LINEAR LINEAR INPUT PARAMETERS LINEAR \_\_\_\_\_ LINEAR FOR VERSIONS EARLIER THAN 90-1 THIS PROGRAM ONLY ALLOWED THE USER LINEAR TO SPECIFY BY INPUT PARAMETERS WHICH MATERIALS (MAT) TO PROCESS. LINEAR FOR EACH REQUESTED MATERIAL NEUTRON INTERACTION CROSS SECTIONS LINEAR

		BE LINEARIZED AND THE REMAINDER OF THE MATERIAL	LINEAR
WOULD	BE COP	IED.	LINEAR
	PRETONS	90-1 AND LATER THIS PROGRAM WILL ALLOW THE USER TO	LINEAR LINEAR
		Y INPUT PARAMETERS EXACTLY WHAT SECTIONS OF DATA	LINEAR
		FOR EACH SECTION OF DATA, SPECIFIED BY MAT, MF, MT	LINEAR
RANGE	S, SECT	IONS OF MF=3, 23 AND 27 WILL BE LINEARIZED AND ALL	LINEAR
		TED SECTIONS WILL BE COPIED. ALL SECTIONS WHICH ARE	LINEAR
		LY REQUESTED WILL BE SKIPPED AND WILL NOT APPEAR ON	LINEAR
ENDF/1	B FILE (	OUTPUT BY THIS PROGRAM.	LINEAR
י שידיש	THIS NE	W PROCEDURE YOU CAN MINIMIZE THE SIZE OF THE ENDF/B	LINEAR LINEAR
		BY THIS PROGRAM, E.G., IF YOU ONLY WANT NEUTRON	LINEAR
		NS FOR SUBSEQUENT PROCESSING YOU NEED ONLY REQUEST	LINEAR
	MF=3 DA		LINEAR
			LINEAR
	•	MUST UNDERSTAND THAT ONLY THOSE SECTIONS WHICH YOU	LINEAR
		EQUEST WILL APPEAR ON THE ENDF/B FILE OUTPUT BY	LINEAR
		. FOR EXAMPLE, IF YOU WISH TO DOCUMENT EXACTLY ARIZED THE DATA BY INCLUDING COMMENTS IN MF=1, MT=451	LINEAR
		T EXPLICITLY REQUEST THAT MF=1, MT=451 BE PROCESSED	LINEAR
		ERIAL THAT YOU REQUEST. SIMILAR IF YOU WANT THE	LINEAR
ENTIR	E EVALU	ATION YOU MUST REQUEST ALL MF AND MT TO BE OUTPUT.	LINEAR
			LINEAR
		DESCRIPTION	LINEAR
			LINEAR
T		SELECTION CRITERIA (0=MAT, 1=ZA) MONITOR MODE SELECTOR	LINEAR LINEAR
	12-22	= 0 - NORMAL OPERATION	LINEAR
		= 1 - MONITOR PROGRESS OF LINEARIZING OF THE DATA.	LINEAR
		EACH TIME A PAGE OF DATA POINTS IS WRITTEN TO	LINEAR
		THE SCRATCH FILE PRINT OUT THE TOTAL NUMBER OF	LINEAR
		POINTS ON SCRATCH AND THE LOWER AND UPPER	LINEAR
		ENERGY LIMITS OF THE PAGE (THIS OPTION MAY BE	LINEAR
		USED IN ORDER TO MONITOR THE EXECUTION SPEED OF LONG RUNNING JOBS).	LINEAR LINEAR
	23-33	MINIMUM CROSS SECTION OF INTEREST (BARNS).	LINEAR
	23 33	(IF 0.0 OR LESS IS INPUT THE PROGRAM WILL	LINEAR
		USE 1.0E-10). ENERGY INTERVALS WILL NOT BE	LINEAR
		SUB-DIVIDED IF THE ABSOLUTE VALUE OF THE CROSS	LINEAR
		SECTION WITHIN THE INTERVAL IS LESS THAN THIS VALUE.	LINEAR
		AN EXCEPTION TO THIS RULE IS NEAR THRESHOLDS ENERGY	LINEAR
		INTERVALS WILL BE SUB-DIVIDED UNTIL CONVERGENCE REGARDLESS OF THE MAGNITUDE OF THE CROSS SECTION.	LINEAR LINEAR
	34-44	KEEP ORIGINAL EVALUATED DATA POINTS.	LINEAR
	51 11	= 0 - NO.	LINEAR
		= 1 - YES - ADDITIONAL POINTS MAY BE ADDED IN ORDER	LINEAR
		TO LINEARIZE DATA, BUT ALL ORIGINAL	LINEAR
		DATA POINTS WILL BE INCLUDED IN THE	LINEAR
~	1 50	RESULTS.	LINEAR
2	1-72	ENDF/B INPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN)	LINEAR LINEAR
3	1-72	(STANDARD OPTION = ENDFB.IN) ENDF/B OUTPUT DATA FILENAME	LINEAR
5		(STANDARD OPTION = ENDFB.OUT)	LINEAR
4-N	1- 6	LOWER MAT OR ZA LIMIT	LINEAR
		LOWER MF LIMIT	LINEAR
		LOWER MT LIMIT	LINEAR
		UPPER MAT OR ZA LIMIT	LINEAR
		UPPER MF LIMIT UPPER MT LIMIT	LINEAR LINEAR
	20 22	UP TO 100 RANGES MAY BE SPECIFIED, ONLY ONE RANGE	LINEAR
		PER LINE. THE LIST OF RANGES IS TERMINATED BY A	LINEAR
		BLANK LINE. IF THE UPPER MAT LIMIT OF ANY REQUEST	LINEAR
		IS LESS THAN THE LOW LIMIT IT WILL BE SET EQUAL TO	LINEAR
		THE LOWER LIMIT. IF THE UPPER LIMIT IS STILL ZERO	LINEAR
		IT WILL BE SET EQUAL TO 999999. IF THE UPPER MF OR	
		MT LIMIT IS ZERO IT WILL BE SET TO 99 OR 999 RESPECTIVELY.	LINEAR LINEAR
VARY	1-11	ENERGY FOR ERROR LAW	LINEAR
		ALLOWABLE FRACTIONAL ERROR FOR ERROR LAW.	LINEAR
		THE ACCEPTABLE LINEARIZING ERROR MAY BE SPECIFIED TO	LINEAR

BE EITHER ENERGY INDEPENDENT (DEFINED BY A SINGLE LINEAR ERROR), OR ENERGY DEPENDENT (DEFINED BY UP TO 20 LINEAR ENERGY, ERROR PAIRS). FOR THE ENERGY DEPENDENT CASE LINEAR LINEAR INTERPOLATION WILL BE USED TO DEFINE THE ERRORLINEAR LINEAR AT ENERGIES BETWEEN THOSE AT WHICH IT IS TABULATED. IN ALL CASES THE ERROR LAW IS TERMINATED BY A BLANK LINEAR LINE. IF ONLY ONE ENERGY, ERROR PAIR IS GIVEN THE T.TNEAR THE LAW WILL BE CONSIDERED TO BE ENERGY INDEPENDENT. LINEAR IF MORE THAN ONE PAIR IS GIVEN IT WILL BE CONSIDERED LINEAR TO BE ENERGY DEPENDENT (NOTE, ENERGY INDEPENDENT LINEAR FORM WILL RUN FASTER THAN THE EQUIVALENT ENERGY LINEAR DEPENDENT FORM). FOR AN ENERGY DEPENDENT ERROR LAW LINEAR LINEAR ALL ENERGIES MUST BE ASCENDING ENERGY ORDER. FOR CONVERGENCE OF THE LINEARIZING ALGORITHM ALL ERRORS LINEAR MUST BE POSITIVE. IF AN ALLOWABLE ERROR IS NOT LINEAR POSITIVE IT WILL BE SET EOUAL TO THE STANDARD OPTION LINEAR (CURRENTLY 0.001, CORRESPONDING TO 0.1 PER-CENT). LINEAR IF THE FIRST ERROR LINE IS BLANK IT WILL TERMINATE LINEAR THE ERROR LAW AND THE ERROR WILL BE TREATED AS LINEAR ENERGY INDEPENDENT, EQUAL TO THE STANDARD OPTION LINEAR (CURRENTLY 0.1 PER-CENT). (SEE EXAMPLE INPUT 4). LINEAR LINEAR EXAMPLE INPUT NO. 1 **LINEAR** LINEAR RETRIEVE DATA BY ZA IN ORDER TO FIND ALL URANIUM ISOTOPES AND LINEAR THORIUM 232. RETRIEVE ALL NEUTRON INTERACTION CROSS SECTIONS LINEAR (MF=3). ALL ENERGY INTERVALS IN WHICH THE CROSS SECTION IS LINEAR AT LEAST 1 MICRO-BARN (1.0E-06 BARNS) WILL BE SUBDIVIDED. LINEAR BACKWARD THINNING WILL BE PERFORMED. FROM 0 TO 100 EV LINEARIZE LINEAR TO WITHIN 0.1 PER-CENT ACCURACY. FROM 100 EV TO 1 KEV VARY T.TNEAR ACCURACY BETWEEN 0.1 AND 1.0 PER-CENT. ABOVE 1 KEV USE 1 LINEAR PER-CENT ACCURACY. LINEAR LINEAR EXPLICITLY SPECIFY THE STANDARD FILENAMES. LINEAR LINEAR IN THIS CASE THE FOLLOWING 11 INPUT LINES ARE REQUIRED LINEAR **LTNEAR** 1 0 1.00000- 6 0 LINEAR ENDFB.IN LINEAR ENDFB.OUT LINEAR 92000 3 0 92999 3999 LINEAR 90232 3 0 030 (UPPER LIMIT AUTOMATICALLY SET TO 90232 3999) LINEAR (END OF REQUEST LIST) LINEAR 0.00000 + 0 1.00000 - 03LINEAR 1.00000+ 2 1.00000-03 LINEAR 1.00000+ 3 1.00000-02 LINEAR 1.00000+ 9 1.00000-02 LINEAR (END OF ERROR LAW) LINEAR LINEAR EXAMPLE INPUT NO. 2 LINEAR **LTNEAR** \_\_\_\_\_ SAME AS THE ABOVE CASE, EXCEPT LINEARIZE ALL DATA TO WITHIN THE LINEAR STANDARD ACCURACY (CURRENTLY 0.1 PER-CENT). IN ORDER TO USE THE LINEAR STANDARD ACCURACY YOU NEED NOT SPECIFY ANY ERROR LAW AT ALL. IN LINEAR THIS CASE INCLUDE THE HOLLERITH SECTION, MF=1, MT=451, FOR EACH LINEAR MATERIAL. LINEAR LINEAR LEAVE THE DEFINITION OF THE FILENAMES BLANK - THE PROGRAM WILL LINEAR THEN USE STANDARD FILENAMES. LINEAR **LTNEAR** IN THIS CASE THE FOLLOWING 9 INPUT LINES ARE REQUIRED LINEAR LINEAR 1 0 1.00000 - 6Λ LINEAR (USE DEFAULT FILENAME = ENDFB.IN) LINEAR (USE DEFAULT FILENAME = ENDFB.OUT) LINEAR 92000 1451 92999 1451 LINEAR 92000 3 0 92999 3999 LINEAR 90232 1451 0 1451 LINEAR (UPPER LIMIT AUTOMATICALLY SET TO 90232 3999) LINEAR 90232 3 0 030 (END OF REQUEST LIST) LINEAR (0.1 PER-CENT ERROR, END OF ERROR LAW) LINEAR

	LINEAF	
EXAMPLE INPUT NO. 3	LINEAF	
	LINEAF	
LINEARIZE ALL MATERIALS ON AN ENDF/B TAPE TO WITHIN AN ACCURACY	LINEAF	
OF 0.5 PER-CENT (0.005 AS A FRACTION). IN THIS CASE YOU NEED NOT	LINEAF	
SPECIFY THE MAT, MF, MT RANGES.	LINEAF	
	LINEAF	
READ THE ENDF/B DATA FROM \ENDFB6\ZA092238 AND WRITE THE ENDF/B	LINEAF	
DATA TO \ENDFB6\LINEAR\ZA092238.	LINEAF	
	LINEAF	
IN THIS CASE THE FOLLOWING 6 INPUT LINES ARE REQUIRED	LINEAF	
	LINEAF	
(MAT, 1.0E-10 BARNS, THIN	I) LINEAF	
FB6\ZA092238	LINEAF	
FB6\LINEAR\ZA092238	LINEAF	
(RETRIEVE ALL DATA, END REQUEST LIST)	LINEAF	
5.00000-03	LINEAF	
(END OF ERROR LAW)	LINEAF	
	LINEAF	
NOTE THAT IN THIS CASE IF THE INPUT HAD SPECIFIED AN EQUIVALENT	LINEAF	
ENERGY DEPENDENT ERROR LAW BY GIVING A NUMBER OF ENERGY POINTS		
AT EACH OF WHICH THE ERROR IS 0.5 PER-CENT THE PROGRAM WOULD TAKE	LINEAF	
LONGER TO RUN (I.E., ONLY USE AN ENERGY DEPENDENT ERROR LAW WHEN	LINEAF	
LONGER TO RUN (I.E., ONLY USE AN ENERGY DEPENDENT ERROR LAW WHEN IT IS NECESSARY).	LINEAF	
LONGER TO RUN (I.E., ONLY USE AN ENERGY DEPENDENT ERROR LAW WHEN IT IS NECESSARY). EXAMPLE INPUT NO. 4	LINEAF LINEAF LINEAF LINEAF	
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IT IS NECESSARY). EXAMPLE INPUT NO. 4 IN ORDER TO LINEARIZE ALL MATERIALS ON AN ENDF/B TAPE TO THE STANDARD OPTION OF 0.1 PER-CENT IT IS ADEQUATE TO INPUT A SET OF COMPLETELY BLANK LINES WHICH WILL AUTOMATICALLY INVOKE ALL OF THE STANDARD OPTIONS. LEAVE THE DEFINITION OF THE FILENAMES BLANK - THE PROGRAM WILL THEN USE STANDARD FILENAMES. IN THIS CASE THE FOLLOWING THREE INPUT LINES ARE REQUIRED (MAT, 1.0E-10 BARNS, THIN (USE DEFAULT FILENAME = ENDFB.IN) (USE DEFAULT FILENAME = ENDFB.OUT) (RETRIEVE ALL DATA, END REQUEST LIST)	LINEAF LINEAF LINEAF LINEAF LINEAF LINEAF LINEAF LINEAF LINEAF LINEAF LINEAF LINEAF LINEAF LINEAF LINEAF	