				Leg
PROGRAM	LEGEN	ID		Leg
		=		Leg
VERSION	80-1	(SEPTEMBER 1980	0)	Leg
VERSION	84-1	(NOVEMBER 1984))	Leg
VERSION	86-1	(JANUARY 1986)	*CORRECTED BASED ON USER COMMENTS	Leg
			*FORTRAN-77/H VERSION	Leg
			*CORRECTED BASED ON USER COMMENTS	Leg
VERSION	88-1	(JULY 1988)	*OPTIONINTERNALLY DEFINE ALL I/O	Leg
			FILE NAMES (SEE, SUBROUTINE FILEIO	Leg
			FOR DETAILS).	Leg
			*IMPROVED BASED ON USER COMMENTS.	Leg
VERSION	89-1	(JANUARY 1989)	*PSYCHOANALYZED BY PROGRAM FREUD TO	Leg
			INSURE PROGRAM WILL NOT DO ANYTHING CRAZY.	Leg
			*UPDATED TO USE NEW PROGRAM CONVERT	Leg Leg
			KEYWORDS.	Leg
			*ADDED LIVERMORE CIVIC COMPILER	Leq
			CONVENTIONS.	Leq
VERSION	92-1	(JANUARY 1992)	*FOR ANGULAR DISTRIBUTIONS CALCULATED	Leq
		(,	FROM LEGENDRE COEFFICIENTS, INTERVAL	Leq
			HALF TO CONVERGENCE.	Lec
			*UPDATED BASED ON USER COMMENTS	Lec
			*ADDED FORTRAN SAVE OPTION	Lec
			*ADDED SELECTED OF DATA TO PROCESS	Leg
			BY MAT/MF/MT/ENERGY RANGES.	Leg
			*WARNINGTHE INPUT PARAMETER FORMAT	Leo
			HAS BEEN CHANGED - FOR DETAILS SEE	Leo
		(0000	BELOW.	Leo
VERSION	92-2	(SEPT. 1992)	*CORRECTED PROCESSING OF ISOTROPIC	Lec
VEDCION	0/1	(TANITADY 1004)	ANGULAR DISTRIBUTIONS	Leg
VERSION	94-1	(JANUARI 1994)	*VARIABLE ENDF/B DATA FILENAMES TO ALLOW ACCESS TO FILE STRUCTURES	Leo Leo
			(WARNING - INPUT PARAMETER FORMAT	Lec
			HAS BEEN CHANGED)	Lec
			*CLOSE ALL FILES BEFORE TERMINATING	Lec
			(SEE, SUBROUTINE ENDIT)	Lec
VERSION	96-1	(JANUARY 1996)		Lec
			*IMPROVED COMPUTER INDEPENDENCE	Lec
			*ALL DOUBLE PRECISION	Lec
			*ON SCREEN OUTPUT	Leo
			*UNIFORM TREATMENT OF ENDF/B I/O	Leo
			*IMPROVED OUTPUT PRECISION	Leo
			*INCREASED MAX. POINTS FROM 5,000	Lec
			TO 20,000.	Leo
VERSION	99-1	(MARCH 1999)	*CORRECTED CHARACTER TO FLOATING	Leo
			POINT READ FOR MORE DIGITS	Leg
			*UPDATED TEST FOR ENDF/B FORMAT	Lec
			VERSION BASED ON RECENT FORMAT CHANGE *GENERAL IMPROVEMENTS BASED ON	Lec
			USER FEEDBACK	Lec
VERS. 20	00-1	(FEBRUARY 2000))*GENERAL IMPROVEMENTS BASED ON	Lec
	· · ÷		USER FEEDBACK	Lec
VERS. 20	01-1	(MARCH 2001)	*UPDATED TO HANDLE COMBINATIONS OF	Lec
			LEGENDRE COEFFICIENTS AT LOW ENERGY	Lec
			AND TABULATED DATA AT HIGH ENERGY.	Lec
VERS. 20	02-1	(MAY 2002)	*OPTIONAL INPUT PARAMETERS	Lec
VERS. 20	004-1	(MARCH 2004)	*ADDED INCLUDE FOR COMMON	Lec
			*ZERO ANGULAR DISTRIBUTIONS ARE O.K.	Leg
			(PREVIOUSLY ZERO OR NEGATIVE WAS	Lec
			TREATED AS AN ERROR - ZERO IS O.K.	Lec
			FOR SOME REACTIONS OVER SOME COSINE	Leg
			RANGES)	Leo
VERS. 20	06-1	(MARCH 2006)	*INCREASED MAXIMUM NUMBER OF LEGENDRE	Leo
			COEFFICIENTS FROM 50 TO 500.	Leo
			WARNING - THE RECURSION RELATIONSHIP	Leo
			FOR LEGENDRE POLYNOMIALS BECOMES	Lec
			UNSTABLE IN HIGHER ORDER POLYTNOMIALS	-
VERS. 20	07 1	(JAN. 2007)	EVEN USING DOUBLE PRECISION. *CHECKED AGAINST ALL ENDF/B=VII.	Lec

*INCREASED MAX. POINTS FROM 60,000 Legend то 240,000. Legend VERS. 2007-2 (MAY 2007) *CORRECTED SIZE OF XMUBASE IN ANGLEN Legend FOR INCREASED NUMBER OF COEFFICIENTS. Legend VERS. 2010-1 (Apr. 2010) *General update based on user feedback Legend VERS. 2012-1 (Aug. 2012) *added CODENAME Legend *32 and 64 bit Compatible Legend *Added ERROR stop Legend VERS. 2015-1 (Jan. 2015) *Extended OUT9 Legend *Replaced ALL 3 way IF Statements. Legend Legend OWNED, MAINTAINED AND DISTRIBUTED BY Legend Legend THE NUCLEAR DATA SECTION Legend INTERNATIONAL ATOMIC ENERGY AGENCY Legend P.O. BOX 100 Legend A-1400, VIENNA, AUSTRIA Legend EUROPE Legend Legend ORIGINALLY WRITTEN BY Legend _____ Legend Dermott E. Cullen Legend Legend PRESENT CONTACT INFORMATION Legend -----Legend Dermott E. Cullen Legend 1466 Hudson Way Legend Livermore, CA 94550 Legend U.S.A. Legend Telephone 925-443-1911 Legend E. Mail RedCullen1@Comcast.net Legend http://home.comcast.net/~redcullen1 Legend Legend PURPOSE Legend Legend CALCULATE LINEARLY INTERPOLABLE TABULATED ANGULAR DISTRIBUTIONS Legend STARTING FROM DATA IN THE ENDF/B FORMAT. ANGULAR DISTRIBUTIONS Legend MAY BE DESCRIBED IN THE ENDF/B FORMAT IN ONE OF THREE WAYS. Legend FOR EACH OF THESE THREE FORMS THE USER MAY CHOOSE (SEE, INPUT Legend OPTIONS) TO EITHER COPY EACH TYPE OF DATA OR TO PROCESS IT AT Legend AS FOLLOWS. Legend Legend (1) ANGULAR DISTRIBUTION IS ISOTROPIC AT ALL ENERGIES (LTT=0) Legend _____ Legend IN THIS CASE THE INPUT DATA DOES NOT INCLUDE ANY ANGULAR Legend DISTRIBUTIONS. A SECTION MERELY CONTAINS A FLAG TO INDICATE Legend THE ANGULAR DISTRIBUTION IS ISOTROPIC AT ALL ENERGIES. IN THIS Legend CASE THE SECTION IS OUTPUT IN EXACTLY THE SAME FORM IN WHICH IT Legend WAS READ FROM THE INPUT. Legend Legend (2) ANGULAR DISTRIBUTIONS GIVEN BY LEGENDRE COEFFICIENTS (LTT=1) Legend Legend LEGENDRE COEFFICIENTS ARE GIVEN AT A SERIES OF ENERGIES. AN Legend INTERPOLATION LAW IS GIVEN BETWEEN ENERGIES. THE INTERPOLATION Legend LAW BETWEEN ENERGIES IS COPIED AS INPUT (I.E., NO ATTEMPT IS Legend MADE TO LINEARIZE THE VARIATION WITH ENERGY). FOR EACH ENERGY AT Legend WHICH LEGENDRE COEFFICIENTS ARE GIVEN A LINEARLY INTERPOLABLE Legend ANGULAR DISITRIBUTION IS RECONSTRUCTED IN THE SYSTEM IN WHICH THE Legend THE COEFFICIENTS ARE GIVEN (I.E., CM OR LAB - NO ATTEMPT IS MADE Legend TO CONVERT FROM ONE SYSTEM TO THE OTHER). A MAXIMUM OF 50 LEGENDRE Legend COEFFICIENTS IS ALLOWED. REGARDLESS OF THE NUMBER OF COEFFICIENTS Legend INPUT THE PROGRAM WILL ONLY USE COEFFICIENTS UP TO THE LAST ORDER Legend AT WHICH THE COEFFICIENTS ARE NON-ZERO (E.G. IF COEFFICIENTS P1 Legend THROUGH P12 ARE READ, BUT P9=P10=P11=P12=0.0, THE PROGRAM WILL Legend ONLY USE COEFFICIENTS UP TO P8). IF OVER 50 NON-ZERO COEFFICIENTS Legend ARE READ ONLY THE FIRST 50 WILL BE USED. Legend Legend (2) ANGULAR DISTRIBUTIONS IS TABULATED (LTT=2) Legend _____ Legend ANGULAR DISTRIBUTIONS ARE GIVEN AT A SERIES OF ENERGIES. AN Legend INTERPOLATION LAW IS GIVEN BETWEEN ENERGIES AND A SECOND Legend

INTERPOLATION LAW IS GIVEN AT EACH ENERGY TO INTERPOLATE BETWEEN Legend THE POINTS IN EACH TABULATED DISTRIBUTION. AT EACH ENERGY THE Legend ANGULAR DISTRIBUTION WILL BE CONVERTED TO LINEARLY INTERPOLABLE Legend FORM. THE INTERPOLATION BETWEEN ENERGIES IS OUTPUT EXACTLY AS Legend INPUT. THE INTERPOLATION LAW AT EACH ENERGY IS OUTPUT TO INDICATE Legend THE NOW LINEARLY INTERPOLABLE ANGULAR DISTRIBUTION. Legend Legend (3) LEGENDRE COEFFICIENTS AND TABULATED (LTT=3) Legend _____ Legend ENDF-102 SAYS THIS SHOULD BE LTT=4, BUT ALL OF THE EVALUATIONS Legend IN ENDF/B-VI, RELEASE 7, USE LTT=3? THIS CODE WILL TREAT THESE Legend AS LTT=4 - SEE BELOW. Legend Legend (4) LEGENDRE COEFFICIENTS AND TABULATED (LTT=4) Legend Legend THIS IS A COMBINATION OF (1) AND (2) DESCRIBED ABOVE. THE Legend LEGENDRE DATA IS ALWAYS GIVEN FIRST, FOR LOWER ENERGIES, Legend FOLLOWED BY TABULATED ANGULAR DISTRIBUTIONS, FOR HIGHER ENERGIES. Legend Legend THIS TYPE OF DATA CAN ONLY BE COPIED OR ALL CONVERTED TO Legend TABULATED (LTT=2). Legend Legend POINT VALUES - NORMALIZED VS. UNNORMALIZED Legend _____ Legend THE VALUE OF AN ANGULAR DISTRIBUTION AT ANY COSINE WILL BE Legend CORRECTLY CALCULATED BY THIS CODE, BASED EITHER DIRECTLY ON THE Legend ANGULAR DISTRIBUTION, OR ON THE SUM OF THE CONTRIBUTING LEGENDRE Legend MOMENTS. Legend Legend ENDF/B ANGULAR DISTRIBUTIONS ARE BY DEFINITION NORMALIZED WHEN Legend INTEGRATED OVER COSINE. THEREFORE THIS CODE WILL NORMALIZE EACH Legend ANGULAR DISTRIBUTION BEFORE IT IS OUTPUT. THE OUTPUT REPORT FROM Legend THIS CODE WILL INDICATE THE NORMALIZATION FACTOR USED. Legend Legend THE REASON THAT AN ANGULAR DISTRIBUTION MAY NOT BE NORMALIZED IS Legend DUE TO THE APPROXIMATION OF CREATING LINEARLY INTERPOLABLE Legend TABULATED ANGULAR DISTRIBUTIONS - THE MORE ACCURATELY THIS IS Legend DONE THE CLOSER THE NORMALIZATION FACTOR WILL BE TO UNITY. AS YOU Legend DECREASE THE ALLOWABLE ERROR THE NORMALIZED VALUES WILL APPROACH Legend THE CORRECT POINT VALUES CALCULATED BY THE CODE. Legend Legend SINCE THE DATA IS NORMALIZED PRIOR TO OUTPUT THE RESULTS IN THE Legend ENDF/B FORMAT MAY DIFFER SLIGHTLY FROM VALUES REFERRED TO BE ERROR Legend MESSAGES, ETC. PRINTED BY THE CODE DURING EXECUTION. IN ALL CASES Legend THE VALUES PRINTED BY THE CODE IN ERROR MESSAGES, ETC. SHOULD BE Legend CONSIDERED TO BE THE CORRECT VALUES AND THE OUTPUT TABULATED Legend ANGULAR DISTRIBUTIONS APPROXIMATE DUE TO THE RE-NORMALIZATION -Legend TO RE-ITERATE, THE OUTPUT TABULATED VALUES ARE APPROXIMATE DUE Legend TO THE APPROXIMATIONS USED IN CONSTRUCTING LINEAR INTERPOLABLE Legend ANGULAR DISTRIBUTIONS TO WITHIN SOME ALLOWABLE TOLERANCE. Legend Legend ELIMINATION OF NEGATIVE VALUES Legend ------Legend THE RECONSTRUCTED ANGULAR DISTRIBUTION WILL BE TESTED AND IF IT Legend IS NEGATIVE AT ONE OR MORE COSINES AN ERROR MESSAGE WILL BE OUTPUT Legend AND BASED ON THE INPUT OPTION SELECTED ONE OF THE FOLLOWING Legend CORRECTIVE ACTIONS WILL BE TAKEN (SEE, INPUT OPTIONS), Legend (1) NO CORRECTION Legend (2) CHANGE INDIVIDUAL LEGENDRE COEFFICIENTS (EACH BY LESS THAN Legend 1.0 PER-CENT) UNTIL THE RECONSTRUCTED ANGULAR DISTRIBUTION Legend IS POSITIVE (MINIMUM MORE THAN 1 MILLI-BARN). THE ALLOWABLE Legend PER-CENT CHANGE IN COEFFICIENTS AND MINIMUM CROSS SECTION CAN Legend BE CHANGED BY INPUT. Legend (3) CHANGE ALL LEGENDRE COEFFICIENTS TO FORCE DISTRIBUTION TO BE Legend POSITIVE (MINIMUM MORE THAN 1 MILLI-BARN). WITH THIS OPTION Legend THERE IS NO RESTRICTION ON THE AMOUNT THAT EACH COEFFICIENT Legend IS CHANGED AND AS SUCH THIS OPTION SHOULD BE USED WITH Legend CAUTION AND ONLY AS A LAST RESORT IF NO OTHER APPROACH CAN Legend BE USED TO MAKE THE DISTRIBUTION POSITIVE. Legend Legend OUTPUT Legend

	Legend
THE USER MAY REQUEST OUTPUT OF EITHER,	Legend
(1) TABULATED VALUES - POSSIBLY CORRECTED TO ELIMINATE NE VALUES. THE TABULATED DISTRIBUTION WILL BE NORMALIZED	-
OUTPUT.	Legend
(2) LEGENDRE COEFFICIENTS - POSSIBLY CORRECTED TO ELIMINA	
NEGATIVE VALUES AND WITHOUT HIGHER ORDER ZERO COEFFIC	-
BY DEFINITION DISTRIBUTIONS DEFINED BY LEGENDRE COEFF	ICIENTS Legend
ARE NORMALIZED TO UNITY.	Legend
	Legend
(3) ANGULAR DISTRIBUTIONS GIVEN BY A TABULATION (LTT=2)	Legend
	Legend
TABULATED ANGULAR DISTRIBUTIONS ARE GIVEN AT A SERIES OF	2
AN INTERPOLATION LAW IS GIVEN BETWEEN ENERGIES. THE INTER LAW BETWEEN ENERGIES IS COPIED AS INPUT (I.E., NO ATTEMPT	
MADE TO LINEARIZE THE VARIATION WITH ENERGY). FOR EACH EN	-
AT WHICH TABULATED DATA ARE GIVEN A LINEARLY INTERPOLABLE	-
DISTRIBUTION IS CONSTRUCTED IN THE SYSTEM IN WHICH THE TA	-
DATA ARE GIVEN (I.E., CM OR LAB - NO ATTEMPT IS MADE TO C	ONVERT Legend
FROM ONE SYSTEM TO THE OTHER). A MAXIMUM OF 60000 POINTS	IS ALLOWE Legend
TO REPRESENT THE ANGULAR DISTRIBUTION AT EACH ENERGY.	Legend
	Legend
ELIMINATION OF NEGATIVE VALUES	Legend
THE RECONSTRUCTED ANGULAR DISTRIBUTION WILL BE TESTED AND	Legend IF IT Legend
IS NEGATIVE AT ONE OR MORE COSINES AN ERROR MESSAGE WILL	
AND BASED ON THE INPUT OPTION SELECTED ONE OF THE FOLLOWI	-
CORRECTIVE ACTIONS WILL BE TAKEN (SEE, INPUT OPTIONS),	Legend
(1) NO CORRECTION	Legend
(2) CHANGE ALL TABULATED VALUES TO FORCE DISTRIBUTION TO 3	BE Legend
POSITIVE (MINIMUM MORE THAN 1 MILLI-BARN). THE MINIMU	
MAY BE CHANGED BY INPUT. WITH THIS OPTION THERE IS NO	Legend
RESTRICTION ON THE AMOUNT THAT EACH VALUE IS CHANGED . SUCH THIS OPTION SHOULD BE USED WITH CAUTION AND ONLY	2
LAST RESORT IF NO OTHER APPROACH CAN BE USED TO MAKE	2
DISTRIBUTION POSITIVE.	Legend
DISTRIBUTION POSITIVE.	Legend Legend
OUTPUT	Legend Legend Legend
	Legend
OUTPUT THE OUTPUT WILL BE THE LINEARIZED ANGULAR DISTRIBUTION. T	Legend Legend Legend HE Legend
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	11 E	NDFB.OU	F	Legend
				Legend
	INPUT C			Legend
CADE	COLS.			Legend
			DESCRIPTION	Legend Legend
1	1-11	E11.4	FRACTIONAL THINNING CRITERIA	Legend
	12-22		MAXIMUM NUMBER OF POINTS IN ANGULAR DISTRIBUTION	Legend
			RECONSTRUCTED FROM LEGENDRE COEFFICIENTS (PRESENT	Legend
			LIMITS ARE 11 TO 60000 POINTS)	Legend
			*THIS OPTION CAN BE USED TO RUN QUICK, BUT NOT NECESSARILY SO ACCURATE CALCULATIONS - TO ROUGHLY	Legend Legend
			SEE WHAT THE ANGULAR DISTRIBUTIONS LOOK LIKE.	Legend
		;	*IT IS RECOMMENDED THAT YOU USE 0 AS INPUT - IN	Legend
			WHICH CASE THE PROGRAM WILL USE THE MAXIMUM	Legend
			ALLOWABLE NUMBER OF POINTS = 60000.	Legend
	23-33	I11	TABULATED ANGULAR DISTRIBUTION TREATMENT	Legend
			= 0 - COPY TABLES = 1 - LINEARIZE TABLES (OUTPUT TABLES)	Legend Legend
			= 2 - LINEARIZE AND THIN TABLES (OUTPUT TABLES)	Legend
	34-44	I11	LEGENDRE COEFFICIENT TREATMENT	Legend
			= 0 - COPY LEGENDRE COEFFICIENTS	Legend
			= 1 - RECONSTRUCT TABULATED ANGULAR DISTRIBUTION.	Legend
			(OUTPUT TABLES).	Legend
			= 2 - RECONSTRUCT TABULATED ANGULAR DISTRIBUTION. (OUTPUT LEGENDRE COEFFICIENTS).	Legend Legend
	45-55	I11	NEGATIVE ANGULAR DISTRIBUTION TREATMENT.	Legend
			= 0 - NO CORRECTION	Legend
			= 1 - TABULATE DATA - NO CORRECTION.	Legend
			- LEGENDRE DATA - CHANGE COEFFICIENTS	Legend
			(NONE BY MORE THAN 1.0 PER-CENT - CAN BE CHANGED BY INPUT).	Legend Legend
			= 2 - FORCE DISTRIBUTIONS TO BE POSITIVE	Legend
			(TABULATED OR LEGENDRE DATA).	Legend
	56-66	I11	LEGENDRE COEFFICIENT VARIATION TEST FLAG.	Legend
			= 0 - TEST TESTS.	Legend
			= 1 - PERFORM TESTS,(A) LEGENDRE ORDER INCREASES WITH ENERGY.	Legend Legend
			(C) MONOTONIC VARIATION OF COEFFICIENTS	Legend
			AS A FUNCTION OF ENERGY.	Legend
			(C) COEFFICIENTS DECREASE AS A FUNCTION OF	Legend
0	1 60	6071	LEGENDRE ORDER.	Legend
2	1-60	60A1	ENDF/B INPUT DATA FILENAME (STANDARD OPTION = ENDFB.IN)	Legend Legend
3	1-60	60A1	ENDF/B OUTPUT DATA FILENAME	Legend
			(STANDARD OPTION = ENDFB.OUT)	Legend
4-N	1- 6	I6	LOWER MAT LIMIT	Legend
	7- 8	I2	LOWER MF LIMIT	Legend
	9-11		LOWER MT LIMIT UPPER MAT LIMIT	Legend
	12-17 18-19	I6 I2	UPPER MAI LIMII UPPER MF LIMIT	Legend Legend
	20-22	13	UPPER MT LIMIT	Legend
	23-33	E11.4	LOWER ENERGY LIMIT	Legend
	34-44		UPPER ENERGY LIMIT	Legend
	45-55 56-66		MINIMUM ALLOWABLE VALUE OF ANGULAR DISTRIBUTION ALLOWABLE FRACTION (NOT PER-CENT) CHANGE IN ANY	Legend Legend
	50-00	L11.4	ONE LEGENDRE COEFFICIENT TO MAKE THE ANGULAR	Legend
			DISTRIBUTION POSITIVE (AND AT LEAST EQUAL TO THE	Legend
			INPUT MINIMUM ALLOWABLE VALUE).	Legend
	dere con	100		Legend
			/MT/E RANGES MAY BE INPUT, EACH SPECIFYING AN	Legend
			IMUM SIGMA AND MAXIMUM CHANGE IN COEFFICIENTS. INATED BY A BLANK CARD.	Legend Legend
			RANGES NOT SPECIFIED BY INPUT WILL BE TREATED BY	Legend
			NIMUM SIGMA OF 0.001 (1 MILLI-BARN) AND A CHANGE	Legend
			ICIENT BY UP TO 0.01 (1 PER-CENT).	Legend
			E RANGES ARE NOT USED TO CORRECT ALL ANGULAR	Legend
			WHERE SIGMA IS LESS THAN THE MINIMUM. THEY ARE CORRECT DISTRIBUTION THAT ARE NEGATIVE AND TO	Legend Legend
			HE CROSS SECTION AT THE COSINES WHERE THE ANGULAR	Legend
			ARE INITIALLY NEGATIVE ARE CORRECTED TO BE POSITIVE	Legend

	AND AT LEAST BY INPUT).	' AS LARGE AS	THE MINIMUN	1 ALLOWABLE S	SIGMA (SPECIFIED	Legend
	EXAMPLE INPUT					Legend Legend
	ANGULAR DISTR AND OUTPUT UN A MAXIMUM OF	LEGENDRE COE IBUTION WHIC CORRECTED TA 501 POINTS I E COEFFICIEN	H ARE ACCURA BULATED ANGU N EACH TABUI TS WILL NOT	ATE TO WITHIN JLAR DISTRIBU LATED ANGULAN	DATA TO OBTAIN N 0.1 PER-CENT UTION USING R DISTRIBUTION. D THE INPUT NEED	Legend
	READ /ENDFB6/	K300/LEAD.IN	AND WRITE /	ENDFB6/K300,	/LEAD.OUT	Legend Legend
	THE FOLLOWING	; 4 INPUT LIN	ES ARE REQUI	RED,		Legend Legend
1.00	000- 3	501	2	1	0	Legend Legend
	FB6/K300/LEAD FB6/K300/LEAD					Legend Legend
/ END	(BLANK CARD T		PUT)			Legend
	EXAMPLE INPUT	NO 2				Legend Legend
						Legend
					DATA TO OBTAIN	Legend
					N 0.1 PER-CENT ION (ONLY THOSE	Legend Legend
	RE-CONSTRUCTE					Legend
					BUTION TO A VALU FICIENTS TO BE	JE Legend Legend
	CHANGED BY UP				1012000 10 22	Legend
	USE THE DEFAU		ENDED TN AN		(TUTO CAN DE	Legend Legend
	DONE BY LEAVI					Legend
						Legend
	THE FOLLOWING	; 5 INPUT LIN.	ES ARE REQUI	RED,		Legend Legend
1.00	000- 3	501	2	1	1	Legend
1.00	000- 3	501	2	1	1	Legend Legend
					1 2 2.00000- 2	Legend
		9999 0.00000	+ 0 3.00000+			Legend Legend Legend Legend Legend
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