VERSION 83-1 (FEBRUARY, 1983) VERSION 83-2 (MAY, 1983) VERSION 83-3 (DECEMBER, 1983) *MAJOR MODIFICATION. *ADDED SELECTION OF PLOTS BY MAT OR ZA/MT/ENERGY RANGE (EV). *ADDED VARIABLE AXIS UNITS (PROGRAM CONTROLLEDX=MILLI-EV, EV, KEV, MEVY=MILLI-BARNS, BARNS). VERSION 84-1 (APRIL, 1984) *ADDED SELECTION BY REACTION/ENERGY RANGE. *ADDED IDENTIFY DATA POINTS OPTION (SMALL BOX DRAWN AROUND EACH CROSS SECTION AND RATIO POINT). *IMPROVED NON-IBM GRAPHICS INTERFACE (ALL CHARACTER POSITIONING NOW BASED ON CHARACTER, NOT RASTER, SIZE). VERSION 85-1 (APRIL, 1985) *SPECIAL I/O ROUTINES TO GUARANTEE	Complot
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	Complot
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ACCURACY OF ENERGY.	Complot
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	Complot
The state of the s	Complot
	Complot
	Complot
	Complot
(REQUIRED FOR NARROW ENERGY RANGES)	Complot
	Complot
INTERFACEABLE TO ALMOST ANY PLOTTER	_
*WARNINGINPUT PARAMETERS FROM BEEN	_
	Complot Complot
	Complot
	Complot
	Complot
FILE READ BY PROGRAM	Complot
	Complot
	Complot
	Complot
	Complot Complot
	Complot
	Complot
	Complot
CONVENTIONS.	Complot
	Complot
	Complot
	Complot
INSURE PROGRAM WILL NOT DO ANYTHING CRAZY.	Complot
	Complot
*SPECIAL ENDF/B MATERIAL DEFINITIONS	_
	Complot
BY PROGRAM.	Complot
VERSION 89-2 (MARCH 1989) *ADDED ENDF/B-V AND VI MT	Complot
DEFINITIONS. PROGRAM WILL DETERMINE	_
	Complot
	Complet
	Complot
	Complot Complot
	Complot
VERSION 90-1 (AUGUST 1990) *A NEW PROGRAM	Complot
*ADDED INTERACTIVE MOUSE INPUT	Complot
*ADDED INTERACTIVE MOUSE INPUT *ADDED 3 CHARACTER FONTS *ADDED PHOTON DATA, MF=23 AND 27	Complot Complot

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	*ADDED MAXIMUM RATIO RANGE WHEN PLOTTING RATIOS. *ADDED GRID TYPES *ADDED VARIABLE LINE THICKNESS *WARNINGINPUT PARAMETER FORMAT	Complot Complot Complot Complot
VERSION 92-1 (JANUARY 1992)	HAS BEEN CHANGEDSEE DESCRIPTION BELOW. *ADDED INCIDENT CHARGED PARTICLES (IDENTIFIED IN PLOT TITLES) *ADDED COMPLETELY COMPATIBLE I/O	Complot Complot Complot Complot
VERSION 92-2 (MAY 1992)	FOR READING FLOATING POINT NUMBERS. *CORRECTED DESCRIPTION OF INPUT PARAMETERS AND EXAMPLE PROBLEMS. *ADDED VARIABLE CHARACTER SIZE INPUT	Complot Complot
VERSION 93-1 (MARCH 1993)	*UPDATE FOR ON SCREEN GRAPHIC OUTPUT USING THE LAHEY COMPILER *ADDED NU-BAR (TOTAL, DELAYED,	Complot Complot
VERSION 94-1 (JANUARY 1994)	PROMPT). *VARIABLE ENDF/B DATA FILENAMES TO ALLOW ACCESS TO FILE STRUCTURES (WARNING - INPUT PARAMETER FORMAT HAS BEEN CHANGED)	Complot Complot Complot Complot
WEDGTON OF 1 (WARGIN 1005)	*CLOSE ALL FILES BEFORE TERMINATING (SEE, SUBROUTINE ENDIT)	Complot Complot
VERSION 95-1 (MARCH 1995)	*CORRECTED CROSS SECTION MULTIPLIER FOR EQUIVALENCES *CORRECTED RATIO SCALING, FOR MAXIMUM RATIO LESS THAN 1.0	Complot Complot Complot
VERSION 96-1 (JANUARY 1996)	*COMPLETE RE-WRITE *IMPROVED COMPUTER INDEPENDENCE *ALL DOUBLE PRECISION	Complot Complot
	*UNIFORM TREATMENT OF ENDF/B I/O *IMPROVED OUTPUT PRECISION *DEFINED SCRATCH FILE NAMES *INCREASED PAGE SIZE FROM 24000	Complot Complot
VERSION 97-1 (APRIL 1997)	TO 48000 POINTS *INCREASED PAGE SIZE FROM 48000 *INCREASED PAGE SIZE FROM 48000	Complot Complot
	TO 480000 POINTS	Complot
VERSION 99-1 (MARCH 1999)	*CORRECTED CHARACTER TO FLOATING POINT READ FOR MORE DIGITS	Complot Complot
	*UPDATED TEST FOR ENDF/B FORMAT	Complot
	VERSION BASED ON RECENT FORMAT CHANGE *GENERAL IMPROVEMENTS BASED ON	Complot
	USER FEEDBACK	Complot
VERS. 2000-1 (FEBRUARY 2000))*GENERAL IMPROVEMENTS BASED ON USER FEEDBACK	Complot Complot
VERS. 2002-1 (MAY 2002)	*INPUT PARAMETERS OPTIONAL	Complot
	*CONTROL MINIMUM RATIO RANGE BY INPUT	Complot
VERS. 2004-1 (SEPT. 2004)	*OPTIONAL BLACK OR WHITE BACKGROUND *ADDED INCLUDE FOR COMMON	Complot Complot
VERD. 2004 I (BEII: 2001)	*INCREASED PAGE SIZE FROM 480000	Complot
	TO 600000 POINTS	Complot
	*ADDED NEW REICH-MOORE TO FILE2 TO ALLOW IDENTIFICATION OF RESOLVED AND	Complot Complot
	ANY FOLLOWING UNRESOLVED RESONANCE	Complot
	REGIONS.	Complot
OWNED, MAINTAINED AND DISTR	IBUTED BY	Complot Complot
		Complot
THE NUCLEAR DATA SECTION		Complot
INTERNATIONAL ATOMIC ENERGY P.O. BOX 100	AGENCY	Complot Complot
A-1400, VIENNA, AUSTRIA		Complot
EUROPE		Complot
ORIGINALLY WRITTEN BY		Complot Complot
		Complot
DERMOTT E. CULLEN		Complot
UNIVERSITY OF CALIFORNIA LAWRENCE LIVERMORE NATIONAL	T.ARORATORY	Complot Complot
L-159		Complot

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WEBSITE HTTP://WWW.LLNL.GOV/CULLEN1	Complot
	Complot
AUDIODG MEGGACE	Complot
AUTHORS MESSAGE	Complot Complot
THE COMMENTS BELOW SHOULD BE CONSIDERED THE LATEST DOCUMENTATION	Complot
ALL RECENT IMPROVEMENTS. PLEASE READ ALL OF THESE COMMENTS BEFORE,	_
PARTICULARLY THE COMMENTS CONCERNING MACHINE DEPENDENT CODING.	Complot
	Complot
AT THE PRESENT TIME WE ARE ATTEMPTING TO DEVELOP A SET OF COMPUTER	Complot
INDEPENDENT PROGRAMS THAT CAN EASILY BE IMPLEMENTED ON ANY ONE	Complot
OF A WIDE VARIETY OF COMPUTERS. IN ORDER TO ASSIST IN THIS PROJECT	_
IT WOULD BE APPECIATED IF YOU WOULD NOTIFY THE AUTHOR OF ANY	Complot
COMPILER DIAGNOSTICS, OPERATING PROBLEMS OR SUGGESTIONS ON HOW TO	Complot
IMPROVE THIS PROGRAM. HOPEFULLY, IN THIS WAY FUTURE VERSIONS OF THIS PROGRAM WILL BE COMPLETELY COMPATIBLE FOR USE ON YOUR	Complot Complot
COMPUTER.	Complot
	Complot
PURPOSE	Complot
	Complot
COMPARE ENDF/B FORMATTED DATA FROM TWO SEPARATE INPUT TAPES.	Complot
REACTIONS ARE CONSIDERED TO BE COMPARABLE IF THEY HAVE THE SAME	Complot
(ZA,MF,MT). RESULTS ARE PRESENTED IN GRAPHICAL FORM.	Complot
	Complot
IN THE FOLLOWING FOR SIMPLICITY THE ENDF/B TERMINOLOGYENDF/B	Complot Complot
TAPEWILL BE USED. IN FACT THE ACTUAL MEDIUM MAY BE TAPE, CARDS, DISK OR ANY OTHER MEDIUM.	Complot
DISK OK ANT OTHER MEDIOM.	Complot
ON WHAT COMPUTERS WILL THE PROGRAM RUN	Complot
	Complot
THE PROGRAM HAS BEEN IMPLEMENTED ON A VARIETY OF COMPUTERS FROM	Complot
CRAY AND IBM MAINFRAME TO SUN WORKSTATIONS TO AN IBM-AT PC. THE	Complot
PROGRAM IS SMALL ENOUGH TO RUN ON VIRTUALLY ANY COMPUTER.	Complot
	Complot
THE PROGRAM USES A SIMPLE CALCOMP LIKE GRAPHICS INTERFACE	Complot
(DESCRIBED BELOW) AND ALLOWS THE USER SPECIFY THE PHYSICAL SIZE OF THE PLOTTER BEING USED, BY INPUT PARAMETERS. USING THESE	Complot Complot
CONVENTIONS THIS PROGRAM CAN BE EASILY INTERFACED TO VIRTUALLY	
0011121120112 1112011211 0111 21 1112111 11111111	_
ANY PLOTTER.	Complot
ANY PLOTTER.	_
ANY PLOTTER. FOR SPECIAL CONSIDERATIONS SEE THE SECTIONS BELOW ON,	Complot Complot
FOR SPECIAL CONSIDERATIONS SEE THE SECTIONS BELOW ON, (1) COMPUTER DEPENDENT CODING	Complot Complot Complot Complot Complot
FOR SPECIAL CONSIDERATIONS SEE THE SECTIONS BELOW ON,	Complot Complot Complot Complot Complot Complot
FOR SPECIAL CONSIDERATIONS SEE THE SECTIONS BELOW ON, (1) COMPUTER DEPENDENT CODING (2) PLOTTER/GRAPHICS TERMINAL INTERFACE	Complot Complot Complot Complot Complot Complot Complot
FOR SPECIAL CONSIDERATIONS SEE THE SECTIONS BELOW ON, (1) COMPUTER DEPENDENT CODING (2) PLOTTER/GRAPHICS TERMINAL INTERFACE GRAPHICS INTERFACE	Complot Complot Complot Complot Complot Complot Complot Complot Complot
FOR SPECIAL CONSIDERATIONS SEE THE SECTIONS BELOW ON, (1) COMPUTER DEPENDENT CODING (2) PLOTTER/GRAPHICS TERMINAL INTERFACE GRAPHICS INTERFACE	Complot
FOR SPECIAL CONSIDERATIONS SEE THE SECTIONS BELOW ON, (1) COMPUTER DEPENDENT CODING (2) PLOTTER/GRAPHICS TERMINAL INTERFACE GRAPHICS INTERFACE THIS PROGRAM USES A SIMPLE CALCOMP LIKE GRAPHICS INTERFACE WHICH	Complot
FOR SPECIAL CONSIDERATIONS SEE THE SECTIONS BELOW ON, (1) COMPUTER DEPENDENT CODING (2) PLOTTER/GRAPHICS TERMINAL INTERFACE GRAPHICS INTERFACE	Complot
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FOR SPECIAL CONSIDERATIONS SEE THE SECTIONS BELOW ON, (1) COMPUTER DEPENDENT CODING (2) PLOTTER/GRAPHICS TERMINAL INTERFACE GRAPHICS INTERFACE THIS PROGRAM USES A SIMPLE CALCOMP LIKE GRAPHICS INTERFACE WHICH REQUIRES ONLY 3 SUBROUTINESPLOTS, PLOT AND PEN (DESCRIBED IN DETAIL BELOW). ALL CHARACTERS AND SYMBOLS ARE DRAWN USING TABLES OF PEN STROKES (SUPPLIED WITH THIS PROGRAM). USING THIS METHOD THE PROGRAM SHOULD BE SIMPLE TO INTERFACE TO VIRTUALLY ANY PLOTTER OR GRAPHICS TERMINAL AND THE APPEARANCE AND LAYOUT OF THE PLOTS SHOULD BE INDEPENDENT OF WHICH PLOTTER IS USED. ON WHAT PLOTTERS WILL THE PROGRAM RUN	Complot
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FOR SPECIAL CONSIDERATIONS SEE THE SECTIONS BELOW ON, (1) COMPUTER DEPENDENT CODING (2) PLOTTER/GRAPHICS TERMINAL INTERFACE GRAPHICS INTERFACE THIS PROGRAM USES A SIMPLE CALCOMP LIKE GRAPHICS INTERFACE WHICH REQUIRES ONLY 3 SUBROUTINESPLOTS, PLOT AND PEN (DESCRIBED IN DETAIL BELOW). ALL CHARACTERS AND SYMBOLS ARE DRAWN USING TABLES OF PEN STROKES (SUPPLIED WITH THIS PROGRAM). USING THIS METHOD THE PROGRAM SHOULD BE SIMPLE TO INTERFACE TO VIRTUALLY ANY PLOTTER OR GRAPHICS TERMINAL AND THE APPEARANCE AND LAYOUT OF THE PLOTS SHOULD BE INDEPENDENT OF WHICH PLOTTER IS USED. ON WHAT PLOTTERS WILL THE PROGRAM RUN THE PLOTTER MAY USE UNITS OF INCHES, CENTIMETERS, MILLIMETERS, VIRTUALLY ANYTHING. INTERNALLY THE PROGRAM WILL DEFINE PLOTS IN APPROXIMATELY A4 OR 8-1/2 BY 11 INCH FORMAT. AS PART OF THE INPUT THE USER DEFINES THE ACTUAL SIZE OF THE PLOT IN THE UNITS (I.E., INCHES, CENTIMETERS, MILLIMETERS, WHATEVER) OF THE REAL PLOT. THE PLOT IS TRANSFORMED TO THE SIZE OF THE LOCAL PLOTTER	Complot
FOR SPECIAL CONSIDERATIONS SEE THE SECTIONS BELOW ON, (1) COMPUTER DEPENDENT CODING (2) PLOTTER/GRAPHICS TERMINAL INTERFACE GRAPHICS INTERFACE THIS PROGRAM USES A SIMPLE CALCOMP LIKE GRAPHICS INTERFACE WHICH REQUIRES ONLY 3 SUBROUTINESPLOTS, PLOT AND PEN (DESCRIBED IN DETAIL BELOW). ALL CHARACTERS AND SYMBOLS ARE DRAWN USING TABLES OF PEN STROKES (SUPPLIED WITH THIS PROGRAM). USING THIS METHOD THE PROGRAM SHOULD BE SIMPLE TO INTERFACE TO VIRTUALLY ANY PLOTTER OR GRAPHICS TERMINAL AND THE APPEARANCE AND LAYOUT OF THE PLOTS SHOULD BE INDEPENDENT OF WHICH PLOTTER IS USED. ON WHAT PLOTTERS WILL THE PROGRAM RUN THE PLOTTER MAY USE UNITS OF INCHES, CENTIMETERS, MILLIMETERS, VIRTUALLY ANYTHING. INTERNALLY THE PROGRAM WILL DEFINE PLOTS IN APPROXIMATELY A4 OR 8-1/2 BY 11 INCH FORMAT. AS PART OF THE INPUT THE USER DEFINES THE ACTUAL SIZE OF THE PLOT IN THE UNITS (I.E., INCHES, CENTIMETERS, MILLIMETERS, WHATEVER) OF THE REAL PLOT. THE PLOT IS TRANSFORMED TO THE SIZE OF THE LOCAL PLOTTER AND OUTPUT. USING THIS CONVENTION THIS PROGRAM SHOULD BE EASY	Complot
FOR SPECIAL CONSIDERATIONS SEE THE SECTIONS BELOW ON, (1) COMPUTER DEPENDENT CODING (2) PLOTTER/GRAPHICS TERMINAL INTERFACE GRAPHICS INTERFACE THIS PROGRAM USES A SIMPLE CALCOMP LIKE GRAPHICS INTERFACE WHICH REQUIRES ONLY 3 SUBROUTINESPLOTS, PLOT AND PEN (DESCRIBED IN DETAIL BELOW). ALL CHARACTERS AND SYMBOLS ARE DRAWN USING TABLES OF PEN STROKES (SUPPLIED WITH THIS PROGRAM). USING THIS METHOD THE PROGRAM SHOULD BE SIMPLE TO INTERFACE TO VIRTUALLY ANY PLOTTER OR GRAPHICS TERMINAL AND THE APPEARANCE AND LAYOUT OF THE PLOTS SHOULD BE INDEPENDENT OF WHICH PLOTTER IS USED. ON WHAT PLOTTERS WILL THE PROGRAM RUN THE PLOTTER MAY USE UNITS OF INCHES, CENTIMETERS, MILLIMETERS, VIRTUALLY ANYTHING. INTERNALLY THE PROGRAM WILL DEFINE PLOTS IN APPROXIMATELY A4 OR 8-1/2 BY 11 INCH FORMAT. AS PART OF THE INPUT THE USER DEFINES THE ACTUAL SIZE OF THE PLOT IN THE UNITS (I.E., INCHES, CENTIMETERS, MILLIMETERS, WHATEVER) OF THE REAL PLOT. THE PLOT IS TRANSFORMED TO THE SIZE OF THE LOCAL PLOTTER	Complot
FOR SPECIAL CONSIDERATIONS SEE THE SECTIONS BELOW ON, (1) COMPUTER DEPENDENT CODING (2) PLOTTER/GRAPHICS TERMINAL INTERFACE GRAPHICS INTERFACE THIS PROGRAM USES A SIMPLE CALCOMP LIKE GRAPHICS INTERFACE WHICH REQUIRES ONLY 3 SUBROUTINESPLOTS, PLOT AND PEN (DESCRIBED IN DETAIL BELOW). ALL CHARACTERS AND SYMBOLS ARE DRAWN USING TABLES OF PEN STROKES (SUPPLIED WITH THIS PROGRAM). USING THIS METHOD THE PROGRAM SHOULD BE SIMPLE TO INTERFACE TO VIRTUALLY ANY PLOTTER OR GRAPHICS TERMINAL AND THE APPEARANCE AND LAYOUT OF THE PLOTS SHOULD BE INDEPENDENT OF WHICH PLOTTER IS USED. ON WHAT PLOTTERS WILL THE PROGRAM RUN THE PLOTTER MAY USE UNITS OF INCHES, CENTIMETERS, MILLIMETERS, VIRTUALLY ANYTHING. INTERNALLY THE PROGRAM WILL DEFINE PLOTS IN APPROXIMATELY A4 OR 8-1/2 BY 11 INCH FORMAT. AS PART OF THE INPUT THE USER DEFINES THE ACTUAL SIZE OF THE PLOT IN THE UNITS (I.E., INCHES, CENTIMETERS, MILLIMETERS, WHATEVER) OF THE REAL PLOT. THE PLOT IS TRANSFORMED TO THE SIZE OF THE LOCAL PLOTTER AND OUTPUT. USING THIS CONVENTION THIS PROGRAM SHOULD BE EASY	Complot

Complot AS DISTRIBUTED THE FIRST FRAME OF PLOTTED OUTPUT WILL DOCUMENT Complot THE PROGRAM NAME, VERSION AND INSTALLATION. THIS INFORMATION IS Complot STORED AS DATA IN THE ARRAY VERSES NEAR THE BEGINNING OF Complot SUBROUTINE FRAME1. IF YOU WISH TO CUSTOMIZE THE OUTPUT TO IDENTIFY Complot YOUR INSTALLATION CHANGE THE LAST TWO LINES OF THE ARRAY (VERSES). Complot Complot ENDF/B FORMAT Complot THIS PROGRAM ONLY USES THE ENDF/B BCD OR CARD IMAGE FORMAT (AS Complot OPPOSED TO THE BINARY FORMAT) AND CAN HANDLE DATA IN ANY VERSION Complot Complot OF THE ENDF/B FORMAT (I.E., ENDF/B-I, II, III, IV, V OR VI FORMAT). Complot BOTH SETS OF EVALUATED DATA MUST BE IN THE ENDF/B FORMAT. ONLY Complot SECTIONS OF FILE 2 (RESONANCE PARAMETERS) AND FILES 3, 23 AND 27 Complot (TABULATED DATA) WILL BE READ AND ALL OTHER SECTIONS WILL BE Complot SKIPPED. IN FILE 2 THE ONLY IMPORTANT INFORMATION IS THE ENERGY Complot LIMITS OF THE RESOLVED AND UNRESOLVED RESONANCE REGION WHICH IS Complot LOCATED IN THE SAME FIELDS IN ALL VERSIONS OF THE ENDF/B FORMAT. Complot SIMILARLY THE FORMAT OF FILES 3, 23 AND 27 IS THE SAME IN ALL Complot VERSIONS OF ENDF/B. THEREFORE THIS PROGRAM CAN BE USED WITH DATA Complot IN ANY ENDF/B FORMAT (I.E. ENDF/B-I, II, III, IV, V OR VI). Complot Complot Complot CROSS SECTION INTERPOLATION -----Complot CROSS SECTIONS MUST BE IN EITHER HISTOGRAM (I.E., INTERPOLATION Complot LAW 1) OR LINEARLY INTERPOLABLE (I.E. INTERPOLATION LAW 2) FORM. Complot IF THEY ARE NOT A WARNING MESSAGE WILL BE PRINTED AND EXECUTION Complot WILL BE TERMINATED. SEE INSTRUCTIONS BELOW ON HOW TO CONVERT Complot DATA TO HISTOGRAM OR LINEARLY INTERPOLABLE FORM. Complot Complot REACTION INDEX Complot Complot THIS PROGRAM DOES NOT USE THE REACTION INDEX WHICH IS GIVEN IN Complot SECTION MF=1, MT=451 OF EACH EVALUATION. Complot Complot SECTION SIZE Complot Complot SINCE THIS PROGRAM USES A LOGICAL PAGING SYSTEM THERE IS NO LIMIT Complot Complot TO THE NUMBER OF POINTS IN ANY SECTION, E.G., THE TOTAL CROSS SECTION MAY BE REPRESENTED BY 200,000 DATA POINTS. Complot Complot DATA SELECTION Complot Complot THE USER MAY SPECIFYING THE DATA TO BE COMPARED BY INPUTTING UP Complot TO 100 MAT/MT/ENERGY OR ZA/MT/ENERGY RANGES. IF THE UPPER LIMIT Complot OF THE MAT OR ZA RANGE IS LESS THAN THE LOWER LIMIT IT WILL BE SET Complot EQUAL TO THE LOWER LIMIT (I.E. THIS INDICATE ONLY COMPARE ONE Complot MAT OR ZA). IF THE UPPER LIMIT IS STILL ZERO IT WILL BE SET TO Complot 9999 (NO LIMIT). IF THE UPPER MF OR MT LIMIT IS ZERO IT WILL BE Complot SET TO 99 OR 999, RESPECTIVELY (NO LIMIT). IF THE UPPER ENERGY Complot LIMIT IS ZERO IT WILL BE SET TO A LARGE NUMBER (NO LIMIT). Complot Complot THE LIST OF RANGES MUST BE TERMINATED BY A BLANK LINE (I.E. ZERO Complot LOWER AND UPPER MAT/MF/MT OR ZA/MF/MT LIMITS). Complot Complot IF THE FIRST RANGE LINE IS BLANK THIS LINE WILL TERMINATE THE Complot LIST OF REQUESTS (I.E. A SECOND BLANK LINE NEED NOT BE INPUT) Complot AND ALL PHYSICALLY COMPARABLE DATA WILL BE PLOTTED. Complot Complot WHICH REACTIONS WILL BE PLOTTED Complot Complot -----THOSE REACTIONS WITH THE SAME (ZA, MF, MT) WILL BE COMPARED, BUT Complot ONLY THOSE DATA WHICH DIFFER BY A USER SPECIFIED ALLOWABLE Complot DIFFERENCE WILL BE PLOTTED. IN ORDER TO FORCE ALL COMPARABLE Complot REACTIONS TO BE PLOTTED THE USER NEED ONLY SPECIFY AN ALLOWABLE Complot DIFFERENCE OF ZERO. Complot Complot EOUIVALENT REACTIONS Complot

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IN ORDER TO COMPARE REACTIONS WHICH HAVE DIFFERENT ZA, MF OR MT

THE USER IS ALLOWED TO SPECIFY AN EQUIVALENCE LIST OF UP TO 100 (ZA,MF,MT) COMBINATIONS ON THE MASTER FILE WHICH ARE TO BE EQUATED TO DIFFERENT (ZA,MF,MT) ON THE SECOND FILE. THIS OPTION MAY BE USED TO COMPARE SIMILAR REACTIONS FROM DIFFERENT MATERIALS (E.G. IRON AND NICKEL INELASTIC SCATTERING) OR DIFFERENT REACTIONS Complot FROM THE SAME OR DIFFERENT MATERIALS (E.G. U-235 CAPTURE AND FISSION - IN WHICH CASE THE RATIO WILL BE THE CAPTURE TO FISSION RATIO) OR THE SAME REACTION IN DIFFERENT VERSIONS OF THE ENDF/B FORMAT WHICH MAY BE ASSIGNED DIFFERENT MT NUMBERS, E.G., THE PHOTOELECTRIC CROSS SECTION IS MT=602 IN ENDF/B-V AND EARLIER VERSIONS OF ENDF/B, BUT IS MT=522 IN ENDF/B-VI.

IN THESE EQUIVALENCE LISTS A ZERO FIELD IMPLIES ALL. FOR EXAMPLE, TO EQUATE MT=522 FROM ONE FILE TO MT=602 ON THE OTHER, FOR ALL MATERIALS, ONE NEED ONLY SPECIFY ZA=0, MF=23, MT=522 EQUIVALENT TO ZA=0, MF=23 AND MT=602.

PLOT FORMATS _____

THE TWO CROSS SECTIONS ARE CONSIDERED TO BE A STANDARD (THE FIRST CROSS SECTION) AND A CROSS SECTION TO BE COMPARED TO THE STANDARD (THE SECOND CROSS SECTION). THE OUTPUT FROM THIS PROGRAM IS A SERIES OF PLOTS. EACH PLOT WILL CONTAIN THE STANDARD CROSS SECTION Complot AND IN ADDITION THE USER MAY SPECIFY THAT EACH PLOT ALSO CONTAIN THE SECOND CROSS SECTION AND/OR THE RATIO OF THE SECOND CROSS SECTION TO THE FIRST CROSS SECTION.

THE USER MAY SELECT ONE OF THE FOLLOWING FIVE PLOT FORMATS (THE NUMBER PRECEDING THE OPTION IS THE VALUE OF THE PLOT MODE SELECTOR Complot THAT THE USER SHOULD SPECIFY AS INPUT ON THE FIRST LINE).

- (0) THE STANDARD CROSS SECTION (I.E. FIRST EVALUATION) AND THE RATIO OF THE SECOND EVALUATION TO THE FIRST EVALUATION. THE DATA WILL BE PRESENTEED AS TWO SUB-PLOTS PER PLOT WITH THE STANDARD CROSS SECTION IN THE UPPER HALF OF THE PLOT AND THE RATIO IN THE LOWER HALF OF THE PLOT.
- (1) THE STANDARD CROSS SECTION (I.E. FIRST EVALUATION) AND THE SECOND EVALUATION. THE DATA WILL BE PRESENTED AS TWO SUB-PLOTS Complot PER PLOT WITH THE STANDARD CROSS SECTION ON THE UPPER HALF OF THE PLOT AND THE SECOND CROSS SECTION IN THE LOWER HALF OF THE PLOT.
- (2) THE STANDARD CROSS SECTION (I.E. FIRST EVALUATION) AND THE SECOND EVALUATION. THE DATA WILL BE PRESENTED AS ONE PLOT CONTAINING BOTH THE STANDARD AND SECOND CROSS SECTION. THE STANDARD CROSS SECTION WILL BE PRESENTED AS A SOLID LINE AND THE SECOND CROSS SECTION WILL BE PRESENTED AS A DASHED LINE.
- (3) THE STANDARD CROSS SECTION, SECOND CROSS SECTION AND RATIO OF THE SECOND CROSS SECTION TO THE FIRST CROSS SECTION. THE DATA WILL BE PRESENTED AS THREE SUB-PLOTS PER PLOT WITH THE STANDARD CROSS SECTION IN THE UPPER THIRD OF THE PLOT, THE SECOND CROSS SECTION IN THE MIDDLE THIRD AND THE RATIO OF THE TWO IN THE LOWER THIRD OF THE PLOT (RECOMMENDED OPTION).
- (4) THE STANDARD CROSS SECTION, SECOND CROSS SECTION AND RATIO OF THE SECOND CROSS SECTION TO THE FIRST CROSS SECTION. THE DATA WILL BE PRESENTED AS TWO SUB-PLOTS PER PLOT WITH THE STANDARD AND SECOND CROSS SECTION ON THE SAME SUB-PLOT IN THE UPPER TWO THIRDS OF THE PLOT AND THE RATIO OF THE TWO IN THE LOWER THIRD OF THE PLOT. THE STANDARD CROSS SECTION WILL BE PRESENTED AS A SOLID LINE AND THE SECOND CROSS SECTION WILL BE Complot PRESENTED AS A DASHED LINE.

ADDITIONAL PLOT FEATURES

IN ADDITION TO THE CROSS SECTIONS AND/OR RATIO THE FOLLOWING INFORMATIONS WILL BE INCLUDED ON EACH PLOT.

(1) AN IDENTIFICATION FOR EACH SET OF CROSS SECTIONS (UP TO 30

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C	HARACTERS FOR EACH SET).	Complot
		Complot
	HE MAXIMUM NEGATIVE AND POSITIVE PER-CENT DIFFERENCE BETWEEN	Complot
Т	HE TWO CROSS SECTIONS.	Complot Complot
(3) A	RROWS INDICATING THE ENERGY AT WHICH THE MAXIMUM DIFFERENCES	Complot
	MINIMUM AND MAXIMUM RATIO) OCCUR.	Complot
•	·	Complot
(4) T	HE ENERGY LIMITS OF THE RESOLVED AND UNRESOLVED RESONANCE	Complot
R	EGION (IF THEY FALL WITHIN THE ENERGY LIMITS OF THE PLOT).	Complot
		Complot
RATIO		Complot Complot
	TIO OUTPUT IS REQUESTED THE RATIO WILL BE DEFINED AT EACH	Complot
	Y THAT APPEARS IN EITHER EVALUATION. BETWEEN THESE ENERGIES	Complot
	ATIO WILL BE PLOTTED ASSUMING LINEAR DEPENDENCE BETWEEN	Complot
TABUL	ATED VALUES. FOR HISTOGRAM OR LINEARLY INTERPOLABLE CROSS	Complot
	ONS THIS REPRESENTATION WILL POINT OUT ALL EXTREMA OF THE	Complot
	, BUT NOT NECESSARILY THE ENERGY DEPENDENCE BETWEEN TABULATED	_
VALUE	s.	Complot
דר ייט	E EVALUATED DATA IS NOT IN EITHER HISTOGRAM OR LINRARLY	Complot Complot
	POLABLE FORM THE RATIO MAY NOT EVEN FIND ALL EXTREMA. FOR	Complot
	LE, IF ONE EVALUATION IS LINEARLY INTERPOLABLE AND THE	Complot
	NON-LINEAR, BUT BOTH AGREE AT ALL TABULATED ENERGIES THE	Complot
RATIO	WILL APPEAR TO BE EQUAL TO UNITY AT ALL ENERGIES, BUT IN	Complot
	THE CROSS SECTION BETWEEN TABULATED ENERGIES MAY BE QUITE	Complot
	RENT USING LINEAR VS. NON-LINEAR INTERPOLATION. FOR THIS	Complot
	N ONLY LINEARLY INTERPOLABLE OR HISTOGRAM DATA IS ALLOWED	Complot
AS IN	PUT TO THIS PROGRAM.	Complot Complot
LINEA	R INTERPOLABLE	Complot
		Complot
ALL C	ROSS SECTIONS MAY BE CONVERTED TO LINEARLY INTERPOLABLE FORM	Complot
BE US	ING PROGRAM LINEAR (UCRL-50400, VOL. 17, PART A).	Complot
	-110 -110 -111 -111 (0011 00 100) (0011 -1)	
		Complot
ністо	GRAM	Complot Complot
HISTO	GRAM	Complot Complot
HISTO ALL L	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO	Complot Complot Complot
HISTO ALL L HISTO	GRAM	Complot Complot
HISTO ALL L HISTO	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE	Complot Complot Complot Complot Complot
HISTO ALL L HISTO (UCRL	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE	Complot Complot Complot Complot Complot Complot Complot Complot Complot
HISTO ALL L HISTO (UCRL	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS	Complot
HISTO ALL L HISTO (UCRL INPUT	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 2	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS.	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 2 9	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 2 9 10	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD).	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 2 9 10 11	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION.	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 2 9 10 11 17 18	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION. SOFTWARE CHARACTERS. SOFTWARE SYMBOLS AND LINE TYPES	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 2 9 10 11 17 18	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION. SOFTWARE CHARACTERS. SOFTWARE SYMBOLS AND LINE TYPES	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 2 9 10 11 17 18 OUTPU	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION. SOFTWARE CHARACTERS. SOFTWARE SYMBOLS AND LINE TYPES T UNITS	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 2 9 10 11 17 18 OUTPU	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION. SOFTWARE CHARACTERS. SOFTWARE SYMBOLS AND LINE TYPES	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 2 9 10 11 17 18 OUTPU	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION. SOFTWARE CHARACTERS. SOFTWARE SYMBOLS AND LINE TYPES T UNITS DESCRIPTION	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 2 9 10 11 17 18 OUTPU	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION. SOFTWARE CHARACTERS. SOFTWARE SYMBOLS AND LINE TYPES T UNITS DESCRIPTION NORMAL OUTPUT REPORT.	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 2 9 10 11 17 18 OUTPU UNIT 3 16	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION. SOFTWARE CHARACTERS. SOFTWARE SYMBOLS AND LINE TYPES T UNITS DESCRIPTION NORMAL OUTPUT REPORT. PLOTTER UNIT	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 2 9 10 11 17 18 OUTPU UNIT 3 16 SCRAT	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION. SOFTWARE CHARACTERS. SOFTWARE SYMBOLS AND LINE TYPES T UNITS DESCRIPTION NORMAL OUTPUT REPORT. PLOTTER UNITS	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 2 9 10 11 17 18 OUTPU UNIT 3 16 SCRAT	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION. SOFTWARE CHARACTERS. SOFTWARE SYMBOLS AND LINE TYPES T UNITS DESCRIPTION NORMAL OUTPUT REPORT. PLOTTER UNITS CH UNITS	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 2 9 10 11 17 18 OUTPU UNIT 3 16 SCRAT UNIT	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION. SOFTWARE CHARACTERS. SOFTWARE SYMBOLS AND LINE TYPES T UNITS DESCRIPTION NORMAL OUTPUT REPORT. PLOTTER UNIT CH UNITS DESCRIPTION	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 2 9 10 11 17 18 OUTPU UNIT 3 16 SCRAT UNIT	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION. SOFTWARE CHARACTERS. SOFTWARE SYMBOLS AND LINE TYPES T UNITS DESCRIPTION NORMAL OUTPUT REPORT. PLOTTER UNIT CH UNITS DESCRIPTION DESCRIPTION	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 2 9 10 11 17 18 OUTPU UNIT 3 16 SCRAT UNIT	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION. SOFTWARE CHARACTERS. SOFTWARE SYMBOLS AND LINE TYPES T UNITS DESCRIPTION NORMAL OUTPUT REPORT. PLOTTER UNIT CH UNITS DESCRIPTION	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 18 OUTPU UNIT 3 16 SCRAT UNIT 12	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION. SOFTWARE CHARACTERS. SOFTWARE SYMBOLS AND LINE TYPES T UNITS DESCRIPTION NORMAL OUTPUT REPORT. PLOTTER UNIT CH UNITS SCRATCH UNIT FOR FIRST EVALUATION	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 18 OUTPU UNIT 3 16 SCRAT UNIT 12 13	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION. SOFTWARE CHARACTERS. SOFTWARE SYMBOLS AND LINE TYPES T UNITS NORMAL OUTPUT REPORT. PLOTTER UNIT CH UNITS DESCRIPTION SCRATCH UNIT FOR FIRST EVALUATION SCRATCH UNIT FOR SECOND EVALUATION	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 10 11 17 18 OUTPU UNIT 3 16 SCRAT UNIT 12 13 14 OPTIO	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE -50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION. SOFTWARE CHARACTERS. SOFTWARE SYMBOLS AND LINE TYPES T UNITS DESCRIPTION NORMAL OUTPUT REPORT. PLOTTER UNIT CH UNITS SCRATCH UNIT FOR FIRST EVALUATION SCRATCH UNIT FOR SECOND EVALUATION SCRATCH UNIT FOR RATIO (ONLY USED IF RATIOS REQUESTED). NAL STANDARD FILE NAMES (SEE SUBROUTINE FILIO1 AND FILIO2)	Complot
HISTO ALL L HISTO (UCRL INPUT UNIT 10 11 17 18 OUTPU UNIT 3 16 SCRAT UNIT 12 13 14 OPTIO	GRAM INEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO GRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE 50400, VOL. 17, PART D). UNITS DESCRIPTION INPUT LINE MT DEFINITIONS. FIRST ENDF/B FORMATTED EVALUATION (STANDARD). SECOND ENDF/B FORMATTED EVALUATION. SOFTWARE CHARACTERS. SOFTWARE SYMBOLS AND LINE TYPES T UNITS DESCRIPTION NORMAL OUTPUT REPORT. PLOTTER UNIT CH UNITS DESCRIPTION SCRATCH UNIT FOR FIRST EVALUATION SCRATCH UNIT FOR SECOND EVALUATION SCRATCH UNIT FOR RATIO (ONLY USED IF RATIOS REQUESTED).	Complot

				Complot
2	COMPLOT.	INP		Complot
3	COMPLOT.	LST		Complot
9	MT.DAT			Complot
10	ENDFB.IN	1 (OR	AS READ FROM INPUT)	Complot
11	ENDFB.IN	•	AS READ FROM INPUT)	Complot
	(SCRATCH	•		Complot
15	PLOT.CHR			Complot
16	(PLOTTER	UNITC	JSUALLY A DUMMY)	Complot
TNDIIT	PARAMETE	DQ		Complot Complot
				_
LINE			DESCRIPTION	Complot
				Complot
1	1-11	E11.4	LOWER X LIMIT OF PLOTTER	Complot
	12-22	E11.4	UPPER X LIMIT OF PLOTTER	Complot
	23-33	E11.4	LOWER Y LIMIT OF PLOTTER	Complot
	34-44		UPPER Y LIMIT OF PLOTTER	Complot
	45-55		NUMBER OF PLOTS PER FRAME IN X DIRECTION	Complot
	56-66		NUMBER OF PLOTS PER FRAME IN Y DIRECTION	Complot
	67-70	F4.1	CHARACTER SIZE MULTIPLIER = 0 TO 1 - NORMAL CHARACTER SIZE	Complot Complot
			= OTHERWISE - CHARACTERS SCALED BY THIS	Complot
			FACTOR	Complot
			1110101	Complot
			PLOT ORIENTATION IS BASED ON THE UPPER X	Complot
			LIMIT	Complot
			= .GT.0 - X HORIZONTAL/Y VERTICAL	Complot
			= .LT.0 - Y HORIZONTAL/X VERTICAL	Complot
			AFTER TESTING THE UPPER X LIMIT WILL BE	Complot
_			SET TO ITS ABSOLUTE VALUE.	Complot
2	1-72	A60	FILENAME FOR FIRST ENDF/B DATA FILE	Complot
3	1-72	A60	(LEAVE BLANK FOR ENDFB.IN1) FILENAME FOR SECOND ENDF/B DATA FILE	Complot Complot
3	1-/2	AUU	(LEAVE BLANK FOR ENDFB.IN2)	Complot
4	1-11	I11	RETRIEVAL MODE (0=MAT, 1=ZA)	Complot
=	12-22	I11	GRID (SPEED) OPTION.	Complot
			= 0 - TICK MARKS ON BORDER	Complot
			= 1 - SOLID AT COARSE INTERVALS	Complot
			= 2 - DASHED AT COARSE INTERVALS	Complot
			= 3 - SOLID AT COARSE AND FINE INTERVALS	Complot
			= 4 - DASHED AT COARSE AND FINE INTERVALS	Complot
	22.22	I11	= 5 - SOLID COARSE/DASHED FINE INTERVALS SHOULD BORDER BE PLOTTED AROUND EACH PLOT	Complot
	23-33	111	= 0 - NO	Complot Complot
			= 1 - YES	Complot
	34-44	I11	LINE THICKNESS	Complot
			= 0 TO 5 - LINES AND CHARACTERS	Complot
			=-1 TO -5 - ONLY LINES	Complot
	45-55	I11	OUTPUT MODE	Complot
			=-1 - ONLY COMPARISON LISTING. NO PLOTS.	Complot
			= 0 - CROSS SECTION OVER RATIO.	Complot
			= 1 - CROSS SECTION OVER CROSS SECTION.	Complot
			<pre>= 2 - TWO CROSS SECTIONS ON SAME PLOT. = 3 - CROSS SECTION OVER CROSS SECTION OVER</pre>	Complet
			RATIO.	Complot
			= 4 - TWO CROSS SECTIONS ON SAME PLOT OVER	Complot
			RATIO.	Complot
	56-66	I11	STARTING PLOT NUMBER	Complot
			= 0 - DO NOT NUMBER PLOTS	Complot
			= .GT.0 - NUMBER PLOTS IN LOWER LEFT HAND	Complot
	c=		CORNER STARTING WITH INPUT NUMBER	_
	67-70	I41	BACKGROUND COLOR	Complot
			= 0 = BLACK	Complet
5	1-11	E11.4	= OTHERWISE = WHITE ALLOWABLE FRACTIONAL DIFFERENCE. USED WHEN	Complot Complot
3	T-TT	13.T.T.4.Z	PLOTTING RATIOS. ANY REACTION WHERE THE	Complot
			TWO EVALUATIONS DIFFER BY MORE THAN THE	Complot
			ALLOWABLE DIFFERENCE WILL BE PLOTTED. IF	Complot
			ZERO IS INPUT THE STANDARD ALLOWABLE	Complot
			DIFFERENCE OF 0.001 (0.1 PER-CENT) WILL BE	Complot

			USED.	Complot
	12-22	E11.4	MAXIMUM ALLOWABLE RATIO. IF RATIOS ARE	Complot
			PLOTTED THEY WILL BE IN THE RANGE RATMAX TO 1/RATMAX. IF 0.0 IS INPUT THERE WILL	Complot Complot
			BE NO LIMIT ON THE RANGE OF THE RATIOS.	Complot
			THIS OPTION MAY BE USED TO IGNORE LARGE	Complot
			DIFFERENCES OVER VERY NARROW ENERGY RANGES	Complot
			(WHICH MAY BE UNIMPORTANT) AND ALLOW ONE TO SEE IMPORTANT, BUT SMALLER DIFFERENCES,	Complot Complot
			OVER EXTENDED ENERGY RANGES.	Complot
6	1-40	40A1	IDENTIFICATION FOR UPPER EVALUATIONS	Complot
7	1-40	40A1	IDENTIFICATION FOR LOWER EVALUATIONS	Complot
			(IDENTIFICATIONS SHOULD BE LEFT ADJUSTED TO START IN COLUMN 1).	Complot
8-N	1- 6	16	LOWER MAT OR ZA LIMIT (SEE SELECTION MODE,	Complot Complot
			INPUT LINE 1, COLUMNS 1-11).	Complot
	7- 8	12	LOWER MF LIMIT	Complot
	9-11	I3	LOWER MT LIMIT	Complot
	12-22 23-28	E11.4 I6	LOWER ENERGY LIMIT UPPER MAT OR ZA LIMIT (SEE SELECTION MODE,	Complot Complot
	25 20	10	INPUT LINE 1, COLUMNS 1-11).	Complot
	29-30	I2	UPPER MF LIMIT	Complot
	31-33	I3	UPPER MT LIMIT	Complot
	34-44 45-55	E11.4 I11	UPPER ENERGY LIMIT IDENTIFY EVALUATED DATA POINTS OPTION.	Complot Complot
	43-33	111	= 0 - DO NOT IDENTIFY DATA POINTS.	Complot
			= 1 - IDENTIFY DATA POINTS (BY DRAWING A	Complot
			SMALL BOX AROUND EACH POINT).	Complot
	56-66	I11	INTERACTIVE INPUT FLAG	Complot
			= 0 - NO INTERACTIVE INPUT ALLOWED = 1 - INTERACTIVE INPUT ALLOWED	Complot Complot
			*SETTING THIS OPTION =1 WILL TURN ON THE	Complot
			MOUSE AFTER EACH PLOT AND ALLOW YOU TO	Complot
			INTERACTIVELY SPECIFY PLOT LIMITS.	Complot
			*IF YOU DO NOT WISH TO INTERACT WITH A PLOT OR IF YOU HAVE NO INTERACTIVE CAPABILITY	Complot Complot
			THIS OPTION SHOULD BE SET = 0.	Complot
				Complot
			*WARNINGDATA POINTS IDENTIFIED OPTION IS	Complot
			NOT RECOMMENDED FOR PLOTS CONTAINING MANY (I.E. THOUSANDS) OF DATA POINTS SINCE IT	Complot Complot
			WILL MERELY INCREASE THE RUNNING TIME OF	Complot
			THE PROGRAM AND STILL NOT ALLOW ONE TO	Complot
			ACCURATELY SEE DATA POINTS.	Complot
			*IID TO 100 MAT OD 7A DANGES ADE ALLOWED	Complot
			*UP TO 100 MAT OR ZA RANGES ARE ALLOWED. THE LIST IS TERMINATED BY A BLANK LINE.	Complot Complot
			IF THE UPPER LIMIT IS LESS THAN THE LOWER	Complot
			LIMIT IT WILL BE SET EQUAL TO THE LOWER	Complot
			LIMIT. IF THE FIRST RANGE LINE IS BLANK	Complot
			ALL DATA WILL BE RETRIEVED. IF THE UPPER MT LIMIT IS ZERO IT WILL BE SET EQUAL TO	Complot Complot
			999 (NO LIMIT). IF THE UPPER ENERGY LIMIT	Complot
			IS ZERO IT WILL BE INTREPRETED TO MEAN NO	Complot
			LIMIT. IF THE FIRST RANGE LINE SPECIFIES	Complot
			ZERO LOWER AND UPPER MAT OR ZA RANGE IT WILL TERMINATE THE LIST BE RANGE LINES	Complot Complot
			(A SECOND BLANK LINE NEED NOT BE INPUT)	Complot
			AND THE ENTIRE RANGE OF MATS WILL BE	Complot
			COMPARED FOR THE SPECIFIED MT AND ENERGY	Complot
			RANGES.	Complot Complot
N+1-M			EQUIVALENCES	Complot
	1- 6	16	MASTER ZA.	Complot
	7- 8	12	MASTER MF.	Complot
	9-11 12-17	I3 I6	MASTER MT.	Complot Complot
	12-17 18-19	16 12	EQUIVALENT ZA FROM SECOND FILE. EQUIVALENT MF FROM SECOND FILE.	Complot
	20-22	13	EQUIVALENT MT FROM SECOND FILE.	Complot
	23-33	E11.4	MULTIPLICATION FACTOR. ANY EQUATED ZA,MF,	Complot
			MT DATA WILL BE MULTIPLIED BY THIS FACTOR.	Complot

*THIS OPTION MAY BE USED TO RE-NORMALIZE THE SECOND CROSS SECTION OR IF COMPARING ONE CONSTITUENT OF A MIXTURE TO THE MIXED CROSS SECTION THIS MAY BE USED TO CONVERT THE SECOND CROSS SECTION TO BARNS PER MIXED Complot ATOM BY USING A MULTIPLICATION FACTOR WHICH Complot IS EQUAL TO THE NUMBER OF ATOMS OF THE ONE Complot CONSTITUENT PER ATOM OF THE MIXTURE. = 0.0 - ON INPUT WILL BE INTERPRETED AS 1.0 Complot (WITH THIS CONVENTION THE USER NEED ONLY INPUT MULTIPLICATION FACTORS IF THEY ARE NOT 1.0).

*UP TO 100 MAT OR ZA EQUIVALENCES ARE ATITIOWED.

*THE LIST IS TERMINATED BY A BLANK LINE. *A ZERO INPUT FIELD IMPLIES ALL. TO EQUATE A GIVEN MT NUMBER TO ANOTHER MT NUMBER YOU NEED MERELY SPECIFY ZA=0 ON INPUT.

*NOTE, IN ALL CASES THE TITLE AT TOP OF PLOT Complot WILL ONLY INDENTIFY MASTER (ZA,MF,MT). THE USER INPUT TITLES MUST BE USED TO IDENTIFY THE SECOND REACTION (SEE, EXAMPLE INPUT 4 BELOW).

EXAMPLE DEFINITION OF PLOTTER

THE FIRST INPUT LINE DEFINES THE DIMENSIONS OF THE PLOTTER BEING USED IN ANY UNITS (INCHES, CENTIMETERS, MILLIMETERS, ANYTHING) WHICH APPLY TO THE PLOTTER. IN ADDITION THE FIRST LINE DEFINES HOW MANY PLOTS SHOULD APPEAR ON EACH FRAME. THE PLOTTING AREA DEFINED ON THE FIRST INPUT LINE MAY BE SUBDIVIDED INTO ANY NUMBER OF PLOTS IN THE X AND Y DIRECTION. FOR EXAMPLE, TO PRODUCE A SERIES OF FRAMES EACH CONTAINING 3 PLOTS IN THE X DIRECTION AND 2 PLOTS IN THE Y DIRECTION (6 PLOTS PER FRAME) COLUMN 45-55 OF THE FIRST INPUT LINE SHOULD BE 3 AND COLUMNS 56-66 SHOULD BE 2.

IF THE LOCAL PLOTTER USES DIMENSIONS OF INCHES IN ORDER TO OBTAIN 10 X 10 INCH FRAMES WITH 3 X 2 PLOTS PER FRAME THE FIRST INPUT LINE SHOULD BE,

0.0 10.0 0.0 10.0 3 2

IF THE LOCAL PLOTTER USES DIMENSION OF MILLIMETERS THE SAME PHYSICAL SIZE PLOT MAY BE OBTAINED IF THE FIRST INPUT LINE IS,

0.0 254.0 0.0 254.0

FOR SIMPLICITY THE FOLLOWING EXAMPLE INPUTS WILL NOT DISCUSS THE PHYSICAL DIMENSIONS OF THE PLOTTER AND THE FIRST INPUT LINE WILL IN ALL CASES INDICATE 10 X 10 INCH PLOTS WITH ONLY 1 PLOT PER FRAME.

IN THE FOLLOWING EXAMPLES IN ALL CASES THESE OPTIONS WILL BE USED,

1) DASHED GRID - COLUMNS 12-22 OF SECOND INPUT LINE = 1

- 2) NO BORDER
- COLUMNS 23-33 OF SECOND INPUT LINE = 0 3) LINE THICKNESS - COLUMNS 34-44 OF SECOND INPUT LINE = -2
- 4) OUTPUT MODE - COLUMNS 45-55 OF SECOND INPUT LINE = 3
- 5) FIRST PLOT NUMBER COLUMNS 56-66 OF SECOND INPUT LINE =

EXAMPLE INPUT 1

RETRIEVE MATS 1023, 1056 AND 1065 THROUGH 1072, MT = 1 AND 2 (TOTAL AND ELASTIC) FROM THE FIRST INPUT FILE AND COMPARE TO ANY SECTION FROM THE SECOND FILE THAT HAS THE SAME ZA/MF/MT. ONLY COMPARE DATA OVER THE ENERGY RANGE 0.1 EV TO 1 KEV. IDENTIFY THE TWO SETS OF DATA AS ENDF/B-V AND ENDF/B-IV, RESPECTIVELY. ONLY PLOT THOSE REACTIONS WHICH DIFFER AT ONE OR MORE ENERGIES BY MORE THAN 1 PER-CENT (NOTE, 1 PER-CENT = 0.01 AS INPUT FRACTION). NO EQUIVALENT REACTIONS ARE SPECIFIED. FILERNAMES ARE STANDARD (THSE CAN EITHER BE EXPLICITLY INCLUDED, OR SIMPLY

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LEFT BLANK) •					Complot Complot
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1112 1022011	1110 12 11110		IMCD REGULATION			Complot
0.0	10.0	0.0	10.0	3	2	Complot
ENDFB.IN1						Complot
ENDFB.IN2						Complot
0	1	0	-2	3	1	Complot
0.01	0.0					Complot
ENDF/B-V DATA						Complot
ENDF/B-IV DAT		2 0 1	000 0	•		Complot
1023 3 1 0.1 1056 3 1 0.1			000.0 000.0	0 0		Complot
1056 3 1 0.1			000.0	0		Complot Complot
1005 5 1 0.1	1072	3 2 1		NATES REQUEST LIS	ST)	Complot
				NATES EQUIVALENCE		Complot
			•	~		Complot
EXAMPLE IN	PUT 2					Complot
						Complot
				IED IN EXAMPLE I		Complot
				39 THROUGH PU-242	2 THE	Complot
FOLLOWING	12 INPUT LI	NES ARE	REQUIRED.			Complot
0.0	10.0		10.0	2	•	Complot
0.0 ENDFB.IN1	10.0	0.0	10.0	3	2	Complot Complot
ENDFB.IN1						Complot
1	1	0	-2	3	1	Complot
0.01	0.0	•	_	•	_	Complot
ENDF/B-V DATA	(STANDARD)					Complot
ENDF/B-IV DAT	A					Complot
92235 3 1 0.1		3 2 1	0.00	0		Complot
92238 3 1 0.1			000.0	0		Complot
94239 3 1 0.1	94242	3 2 1		0		Complot
				NATES REQUEST LIS		Complot
EXAMPLE IN	מחודות כ		(TERMI	NATES EQUIVALENCI	& LIST)	Complot
	PUT .5					
						Complet
		E OPTIO	NG AG SDRCTE	TED IN EXAMPLE I	וסוויד 1	Complot
TO USE ALL	OF THE SAM			THE FOLLOWING 10		Complot Complot
TO USE ALL EXCEPT TO	OF THE SAM RETRIEVE AN			TED IN EXAMPLE IN		Complot Complot Complot
TO USE ALL	OF THE SAM RETRIEVE AN					Complot Complot
TO USE ALL EXCEPT TO	OF THE SAM RETRIEVE AN					Complot Complot Complot
TO USE ALL EXCEPT TO LINES ARE	OF THE SAM RETRIEVE AN REQUIRED.	D COMPA	RE ALL MATS	THE FOLLOWING 10	INPUT	Complot Complot Complot Complot
TO USE ALL EXCEPT TO: LINES ARE: 0.0 ENDFB.IN1 ENDFB.IN2	OF THE SAM RETRIEVE AN REQUIRED. 10.0	D COMPA	RE ALL MATS	THE FOLLOWING 10	INPUT	Complot Complot Complot Complot Complot Complot Complot
TO USE ALL EXCEPT TO: LINES ARE: 0.0 ENDFB.IN1 ENDFB.IN2 0	OF THE SAM RETRIEVE AN REQUIRED. 10.0	D COMPA	RE ALL MATS	THE FOLLOWING 10	INPUT	Complot
TO USE ALL EXCEPT TO LINES ARE 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01	OF THE SAM RETRIEVE AN REQUIRED. 10.0 1 0.0	D COMPA	RE ALL MATS	THE FOLLOWING 10	INPUT	Complot
TO USE ALL EXCEPT TO: LINES ARE: 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA	OF THE SAM RETRIEVE AN REQUIRED. 10.0 1 0.0 (STANDARD)	D COMPA	RE ALL MATS	THE FOLLOWING 10	INPUT	Complot Complot Complot Complot Complot Complot Complot Complot Complot Complot
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TO USE ALL EXCEPT TO: LINES ARE: 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA	OF THE SAM RETRIEVE AN REQUIRED. 10.0 1 0.0 (STANDARD)	O.0	RE ALL MATS 10.0 -2 .0 (TERMI	THE FOLLOWING 10	INPUT 2 1 ST)	Complot
TO USE ALL EXCEPT TO: LINES ARE: 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA	OF THE SAM RETRIEVE AN REQUIRED. 10.0 1 0.0 (STANDARD)	O.0	RE ALL MATS 10.0 -2 .0 (TERMI) (TERMI	THE FOLLOWING 10 3 3 0 NATES REQUEST LIS	INPUT 2 1 ST) E LIST)	Complot
TO USE ALL EXCEPT TO: LINES ARE: 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA	OF THE SAM RETRIEVE AN REQUIRED. 10.0 1 0.0 (STANDARD)	O.0	TE ALL MATS 10.0 -2 .0 (TERMI (TERMI NOTE,	THE FOLLOWING 10 3 3 0 NATES REQUEST LIS NATES EQUIVALENCE	INPUT 2 1 ST) SLIST) JPPER	Complot
TO USE ALL EXCEPT TO: LINES ARE: 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA	OF THE SAM RETRIEVE AN REQUIRED. 10.0 1 0.0 (STANDARD)	O.0	TE ALL MATS 10.0 -2 .0 (TERMI (TERMI NOTE,	THE FOLLOWING 10 3 3 0 NATES REQUEST LISHNATES EQUIVALENCE ZERO LOWER AND TO	INPUT 2 1 ST) SLIST) JPPER	Complot
TO USE ALL EXCEPT TO: LINES ARE: 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA 1 1 0.0	OF THE SAM RETRIEVE AN REQUIRED. 10.0 1 0.0 (STANDARD) 9999	O.0	TE ALL MATS 10.0 -2 .0 (TERMI (TERMI NOTE,	THE FOLLOWING 10 3 3 0 NATES REQUEST LISHNATES EQUIVALENCE ZERO LOWER AND TO	INPUT 2 1 ST) SLIST) JPPER	Complot
TO USE ALL EXCEPT TO: LINES ARE: 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA 1 1 1 0.0	OF THE SAM RETRIEVE AN REQUIRED. 10.0 1 0.0 (STANDARD) 9999	0.0 0 99999 0	TE ALL MATS 10.0 -2 .0 (TERMI (TERMI NOTE, MAT I	THE FOLLOWING 10 3 3 0 NATES REQUEST LIST NATES EQUIVALENCE ZERO LOWER AND TO IMITS INDICATES I	INPUT 2 1 ST) SE LIST) JPPER NO LIMIT.	Complot
TO USE ALL EXCEPT TO LINES ARE 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA 1 1 1 0.0	OF THE SAM RETRIEVE AN REQUIRED. 10.0 (STANDARD) 9999 PUT 4235 AND EQ	0.0 0 99999 0	TE ALL MATS 10.0 -2 .0 (TERMI (TERMI NOTE, MAT I	THE FOLLOWING 10 3 3 0 NATES REQUEST LIS NATES EQUIVALENCE ZERO LOWER AND TO IMITS INDICATES I	INPUT 2 1 ST) SC LIST) JPPER NO LIMIT.	Complot
TO USE ALL EXCEPT TO LINES ARE 1 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA 1 1 0.00 EXAMPLE IN RETRIEVE U THE MASTER	OF THE SAM RETRIEVE AN REQUIRED. 10.0 (STANDARD) 9999 PUT 4235 AND EQ FILE TO CA	O.O O 99999 O UATE TH	TE ALL MATS 10.0 -2 .0 (TERMI (TERMI NOTE, MAT I E FISSION CF MT=102) ON T	THE FOLLOWING 10 3 3 NATES REQUEST LIST NATES EQUIVALENCY ZERO LOWER AND UNITED INDICATES IND	INPUT 2 1 ST) S LIST) JPPER NO LIMIT.	Complot
TO USE ALL EXCEPT TO: LINES ARE: 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA 1 1 1 0.0 EXAMPLE IN RETRIEVE U THE MASTER THE CAPTUR	OF THE SAM RETRIEVE AN REQUIRED. 10.0 (STANDARD) 9999 PUT 4235 AND EQ FILE TO CA E, FISSION	O.O O O 99999 O UATE TH PTURE (: AND CAP	TURE TO FISS	THE FOLLOWING 10 3 3 0 NATES REQUEST LI: NATES EQUIVALENCE ZERO LOWER AND UNITS INDICATES IN	INPUT 2 1 ST) SILIST) IPPER NO LIMIT. L8) ON PLOT HE ENERGY	Complot
TO USE ALL EXCEPT TO: LINES ARE: 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA 1 1 1 0.0 EXAMPLE IN RETRIEVE U THE MASTER THE CAPTUR	OF THE SAM RETRIEVE AN REQUIRED. 10.0 (STANDARD) 9999 PUT 4235 AND EQ FILE TO CA E, FISSION	O.O O O 99999 O UATE TH PTURE (: AND CAP	TURE TO FISS	THE FOLLOWING 10 3 3 NATES REQUEST LIST NATES EQUIVALENCY ZERO LOWER AND UNITED INDICATES IND	INPUT 2 1 ST) SILIST) IPPER NO LIMIT. L8) ON PLOT HE ENERGY	Complot
TO USE ALL EXCEPT TO LINES ARE 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA 1 1 1 0.0 EXAMPLE IN RETRIEVE U THE MASTER THE CAPTUR RANGE 0.02	OF THE SAM RETRIEVE AN REQUIRED. 10.0 (STANDARD) 9999 PUT 4235 AND EQ FILE TO CA E, FISSION	O.O O O 99999 O UATE TH PTURE (: AND CAP	TURE TO FISS	THE FOLLOWING 10 3 3 0 NATES REQUEST LI: NATES EQUIVALENCE ZERO LOWER AND UNITS INDICATES IN	INPUT 2 1 ST) SILIST) IPPER NO LIMIT. L8) ON PLOT HE ENERGY	Complot
TO USE ALL EXCEPT TO LINES ARE 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA 1 1 1 0.0 EXAMPLE IN RETRIEVE U THE MASTER THE CAPTUR RANGE 0.02	OF THE SAM RETRIEVE AN REQUIRED. 10.0 (STANDARD) 9999 PUT 4235 AND EQ FILE TO CA E, FISSION	O.O O O 99999 O UATE TH PTURE (: AND CAP	TURE TO FISS	THE FOLLOWING 10 3 3 0 NATES REQUEST LI: NATES EQUIVALENCE ZERO LOWER AND UNITS INDICATES IN	INPUT 2 1 ST) SILIST) IPPER NO LIMIT. L8) ON PLOT HE ENERGY	Complot
TO USE ALL EXCEPT TO LINES ARE 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA 1 1 1 0.0 EXAMPLE IN RETRIEVE U THE MASTER THE CAPTUR RANGE 0.02 REQUIRED.	OF THE SAM RETRIEVE AN REQUIRED. 10.0 1 0.0 (STANDARD) 9999 PUT 4235 AND EQ FILE TO CA E, FISSION 53 EV TO 1	O.O O 99999 O UATE TH PTURE (: AND CAP KEV. TH	10.0 -2 .0 (TERMI NOTE, MAT I E FISSION CFMT=102) ON TURE TO FISS E FOLLOWING	3 3 0 NATES REQUEST LI: NATES EQUIVALENCE ZERO LOWER AND UNITS INDICATES	INPUT 2 1 ST) SLIST) JPPER NO LIMIT. L8) ON PLOT HE ENERGY RE	Complot
TO USE ALL EXCEPT TO: LINES ARE: 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA 1 1 1 0.0 EXAMPLE IN COLUMN ANGE O.02 REQUIRED. 0.0 ENDFB.IN1 ENDFB.IN2	OF THE SAM RETRIEVE AN REQUIRED. 10.0 (STANDARD) 9999 PUT 4235 AND EQ FILE TO CA E, FISSION 53 EV TO 1	O.O O.O O 99999 O UATE TH PTURE () AND CAP KEV. TH	TE ALL MATS 10.0 -2 .0 (TERMI (TERMI NOTE, MAT I E FISSION CF MT=102) ON T TURE TO FISS E FOLLOWING	THE FOLLOWING 10 3 3 0 NATES REQUEST LIST NATES EQUIVALENCE ZERO LOWER AND TO JUST SINDICATES IN OSS SECTION (MT=1 HE SECOND FILE. IN ION RATIO OVER THE 11 INPUT LINES AN	INPUT 2 1 ST) SC LIST) JPPER NO LIMIT. L8) ON PLOT HE ENERGY RE	Complot
TO USE ALL EXCEPT TO LINES ARE 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA 1 1 1 0.0 EXAMPLE IN EXAMPLE IN EXAMPLE IN EXAMPLE IN EXAMPLE IN CONTROL OF THE MASTER THE CAPTUR RANGE 0.02 REQUIRED. 0.0 ENDFB.IN1 ENDFB.IN2	OF THE SAM RETRIEVE AN REQUIRED. 10.0 (STANDARD) 9999 PUT 4235 AND EQ FILE TO CA E, FISSION 53 EV TO 1	O.O O 99999 O UATE TH PTURE (: AND CAP KEV. TH	10.0 -2 .0 (TERMI NOTE, MAT I E FISSION CFMT=102) ON TURE TO FISS E FOLLOWING	3 3 0 NATES REQUEST LI: NATES EQUIVALENCE ZERO LOWER AND UNITS INDICATES	INPUT 2 1 ST) SLIST) JPPER NO LIMIT. L8) ON PLOT HE ENERGY RE	Complot
TO USE ALL EXCEPT TO LINES ARE 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA 1 1 1 0.0 EXAMPLE IN EXAMPLE IN EXAMPLE IN EXAMPLE IN CONTROL OF THE MASTER THE CAPTUR RANGE 0.02 REQUIRED. 0.0 ENDFB.IN1 ENDFB.IN2 1 0.01	OF THE SAM RETRIEVE AN REQUIRED. 10.0 (STANDARD) 9999 PUT 4235 AND EQ FILE TO CA E, FISSION 53 EV TO 1	O.O O.O O 99999 O UATE TH PTURE () AND CAP KEV. TH	TE ALL MATS 10.0 -2 .0 (TERMI (TERMI NOTE, MAT I E FISSION CF MT=102) ON T TURE TO FISS E FOLLOWING	THE FOLLOWING 10 3 3 0 NATES REQUEST LIST NATES EQUIVALENCE ZERO LOWER AND TO JUST SINDICATES IN OSS SECTION (MT=1 HE SECOND FILE. IN ION RATIO OVER THE 11 INPUT LINES AN	INPUT 2 1 ST) SC LIST) JPPER NO LIMIT. L8) ON PLOT HE ENERGY RE	Complot
TO USE ALL EXCEPT TO LINES ARE 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA 1 1 1 0.0 EXAMPLE IN RETRIEVE U THE MASTER THE CAPTUR RANGE 0.02 REQUIRED. 0.0 ENDFB.IN1 ENDFB.IN2 1 0.01 FISSION	OF THE SAM RETRIEVE AN REQUIRED. 10.0 (STANDARD) 9999 PUT 4235 AND EQ FILE TO CA E, FISSION 53 EV TO 1	O.O O.O O 99999 O UATE TH PTURE () AND CAP KEV. TH	TE ALL MATS 10.0 -2 .0 (TERMI (TERMI NOTE, MAT I E FISSION CF MT=102) ON T TURE TO FISS E FOLLOWING	THE FOLLOWING 10 3 3 0 NATES REQUEST LIST NATES EQUIVALENCE ZERO LOWER AND TO JUST SINDICATES IN OSS SECTION (MT=1 HE SECOND FILE. IN ION RATIO OVER THE 11 INPUT LINES AN	INPUT 2 1 ST) SC LIST) JPPER NO LIMIT. L8) ON PLOT HE ENERGY RE	Complot
TO USE ALL EXCEPT TO LINES ARE 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA 1 1 1 0.0 EXAMPLE IN RETRIEVE U THE MASTER THE CAPTUR RANGE 0.02 REQUIRED. 0.0 ENDFB.IN1 ENDFB.IN2 1 0.01 FISSION CAPTURE	OF THE SAM RETRIEVE AN REQUIRED. 10.0 1 0.0 (STANDARD) 9999 PUT 4235 AND EQ FILE TO CA E, FISSION 53 EV TO 1 10.0	O.O O O O O O O O O O O O O	THE ALL MATS 10.0 -2 .0 (TERMINOTE, MAT INTEREMENT OF	THE FOLLOWING 10 3 0 NATES REQUEST LI: NATES EQUIVALENCY ZERO LOWER AND UNITS INDICATES IN COSS SECTION (MT=: THE SECOND FILE. IN ION RATIO OVER THE SECOND FILE. IN 3 3	INPUT 2 1 ST) SC LIST) JPPER NO LIMIT. L8) ON PLOT HE ENERGY RE	Complot
TO USE ALL EXCEPT TO LINES ARE 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V DATA ENDF/B-IV DATA 1 1 1 0.0 EXAMPLE IN RETRIEVE U THE MASTER THE CAPTUR RANGE 0.02 REQUIRED. 0.0 ENDFB.IN1 ENDFB.IN2 1 0.01 FISSION	OF THE SAM RETRIEVE AN REQUIRED. 10.0 1 0.0 (STANDARD) 9999 PUT 4235 AND EQ FILE TO CA E, FISSION 53 EV TO 1 10.0	O.O O O O O O O O O O O O O	TE ALL MATS 10.0 -2 .0 (TERMI (TERMI NOTE, MAT I E FISSION CF MT=102) ON I TURE TO FISS E FOLLOWING 10.0 -2	THE FOLLOWING 10 3 3 0 NATES REQUEST LIST NATES EQUIVALENCE ZERO LOWER AND TO JUST SINDICATES IN OSS SECTION (MT=1 HE SECOND FILE. IN ION RATIO OVER THE 11 INPUT LINES AN	INPUT 2 1 ST) SLIST) JPPER NO LIMIT. L8) ON PLOT HE ENERGY RE 2 1	Complot

```
92235 3 18 92235 3102
                                       (MULTIPLICATION OF 1.0 INFERRED) Complot
                                       (TERMINATES EQUIVALENCE LIST)
                                                                         Complot
                                                                         Complot
    EXAMPLE INPUT 5
                                                                         Complot
                                                                         Complot
                                                                         Complot
    IN DIFFERENT VERSIONS OF THE ENDF/B FORMAT DIFFERENT MT NUMBERS
    ARE ASSIGNED TO THE SAME REACTION. FOR EXAMPLE, IN ENDF/B-V AND
                                                                         Complot
    EARLIER VERSIONS OF ENDF/B THE PHOTOELECTRIC CROSS SECTION IS
                                                                         Complot
    MT=602, WHILE IN ENDF/B-VI IT IS MT=522. IN ORDER TO COMPARE
                                                                         Complot
    ASSUMING THAT THE MASTER IS ENDF/B-VI AND THE OTHER ENDF/B FILE
                                                                         Complot
    IS ENDF/B-V (OR EARLIER) YOU MAY EQUATE MT=522 TO 602.
                                                                         Complot
                                                                         Complot
    WHEN COMPARING PHOTOELECTRIC CROSS SECTIONS WE EXPECT THERE TO BE
                                                                         Complot
    LARGE DIFFERENCES NEAR EDGES, SINCE IT IS UNLIKELY THAT TWO
                                                                         Complot
    INDEPENDENT EVALUATIONS USE EXACTLY THE SAME EDGE ENERGIES. FROM
                                                                         Complot
    A PRACTICAL VIEWPOINT THESE DIFFERENCES ARE NOT IMPORTANT IF THEY
                                                                         Complot
    ONLY OCCUR OVER NARROW ENERGY RANGES NEAR ENERGIES. HOWEVER THESE
                                                                         Complot
    LARGE DIFFERENCES MAY MAKE IT DIFFICULT TO SEE DIFFERENCES OVER
                                                                         Complot
    OTHER ENERGY RANGES, WHICH MAY BE IMPORTANT. IN ORDER TO BE ABLE
                                                                         Complot
    TO SEE IMPORTANT DIFFERENCES IN THE FOLLOWING COMPARISON WE WILL
                                                                         Complot
    CONSTRAIN THE PLOTTED RATIO TO THE RANGE ABOUT 0.9 TO 1.1 IN
                                                                         Complot
    ORDER TO BE ABLE TO SEE DIFFERENCES OF UP TO 10 PER-CENT. WE WILL
                                                                         Complot
    DO THIS BY SPECIFYING A MAXIMUM RATIO OF 1.1, WHICH WILL IN TURN
                                                                         Complot
    DEFINE A MINIMUM RATIO OF 1/1.1, OR ABOUT 0.9.
                                                                         Complot
                                                                         Complot
    IN ORDER TO COMPARE THE PHOTOELECTRIC CROSS SECTION FOR ALL
                                                                         Complot
    MATERIALS THE FOLLOWING 11 INPUT LINES ARE REQUIRED.
                                                                         Complot
                                                                         Complot
      0.0
                10.0
                          0.0
                                  10.0
                                                                 2
                                                                         Complot
 ENDFB.IN1
                                                                         Complot
 ENDFB.IN2
                                                                         Complot
                                                                         Complot
                            0
                                     -2
                                                     3
                                                                1
                   1
        0
     0.01
                 1.1
                                                                         Complot
ENDF/B-VI
                                                                         Complot
ENDE/B-V
                                                                         Complot
   023522
                    999923522
                                                     0
                                                                         Complot
                                       (TERMINATES REQUEST LIST)
                                                                         Complot
   023522
              023602
                                       (MULTIPLICATION OF 1.0 INFERRED)
                                                                        Complot
                                       (TERMINATES EQUIVALENCE LIST)
                                                                         Complot
                                                                         Complot
    EXAMPLE INPUT 6
                                                                         Complot
                                                                         Complot
    THE SAME EXAMPLE AS ABOVE, EXCEPT THAT DIFFERENT FILENAMES WILL
                                                                         Complot
    BE USED TO READ THE DATA FROM A FILE TREE STRUCTURE. THE FOLLOWING Complot
    11 INPUT LINES ARE REQUIRED.
                                                                         Complot
                                                                         Complot
      0.0
                10.0
                          0.0
                                  10.0
                                                     3
                                                                 2
                                                                         Complot
 /Evaluated/ENDFB6/PHOTON.IN
                                                                         Complot
 /Evaluated/ENDFB5/PHOTON.IN
                                                                         Complot
       0
                 1
                                                                         Complot
     0.01
                 1.1
                                                                         Complot
ENDF/B-VI
                                                                         Complot
ENDF/B-V
                                                                         Complot
   023522
                    999923522
                                                     0
                                                                         Complot
                                       (TERMINATES REQUEST LIST)
                                                                         Complot
                                       (MULTIPLICATION OF 1.0 INFERRED) Complot
   023522
              023602
                                       (TERMINATES EQUIVALENCE LIST)
                                                                         Complot
                                                                         Complot
    EXAMPLE INPUT 7
                                                                         Complot
                                                                         Complot
    THE OUTPUT FOR ALL OF THE ABOVE EXAMPLES ARE ORIENTED WITH X
                                                                         Complot
    HORIZONTAL AND Y VERTICAL. TO CHANGE THE ORIENTATION OF THE PLOTS
                                                                         Complot
    YOU NEED MERELY SPECIFY A NEGATIVE UPPER X LIMIT OF THE SIZE OF
                                                                         Complot
    THE PLOTS ON THE FIRST INPUT LINE.
                                                                         Complot
                                                                         Complot
    THE FOLLOWING EXAMPLE IS EXACTLY THE SAME AS THE ABOVE EXAMPLE,
                                                                         Complot
    EXCEPT THAT THE ORIENTATION OF THE PLOTS HAS BEEN CHANGED. THE
                                                                         Complot
    FOLLOWING 11 INPUT LINES ARE REQUIRED.
                                                                         Complot
                                                                         Complot
      0.0
               -10.0
                          0.0
                                   10.0
                                                     3
                                                                 2
                                                                         Complot
 /Evaluated/ENDFB6/PHOTON.IN
                                                                         Complot
```

```
/Evaluated/ENDFB5/PHOTON.IN
                                                                     Complot
                           0
                                                   3
                                                                     Complot
        0
                  1
     0.01
                 1.1
                                                                      Complot
ENDF/B-VI
                                                                     Complot
ENDF/B-V
                                                                      Complot
                    999923522
   023522
                                                                      Complot
                                      (TERMINATES REQUEST LIST)
                                                                      Complot
    023522
              023602
                                      (MULTIPLICATION OF 1.0 INFERRED) Complot
                                      (TERMINATES EQUIVALENCE LIST)
                                                                      Complot
                                                                      Complot
==== PLOTTER/GRAPHICS TERMINAL INTERFACE ============ Complot
                                                                      Complot
     NON-INTERACTIVE
                                                                      Complot
     ------ Complot
     THIS PROGRAM USES A SIMPLE CALCOMP LIKE INTERFACE INVOLVING
     ONLY 5 SUBROUTINES,
                                                                     Complot
                                                                      Complot
                  - INITIALIZE PLOTTER
                                                                      Complot
     STARPLOT
     NEXTPLOT
                  - CLEAR SCREEN FOR NEXT PLOT
                                                                      Complot
                  - TERMINATE PLOTTING
     ENDPLOTS
                                                                      Complot
                                                                      Complot
     PLOT(X,Y,IPEN)
                           - DRAW OR MOVE FROM LAST LOCATION TO (X,Y), Complot
                             END OF CURRENT PLOT OR END OF PLOTTING.
                                                                      Complot
           IPEN = 2 - DRAW
                                                                      Complot
                  3 - MOVE
                                                                      Complot
                                                                      Complot
     PEN(IPEN)
                           - SELECT COLOR.
                                                                      Complot
         IPEN- COLOR = 1 TO N (N = ANY POSITIVE INTEGER)
                                                                     Complot
                                                                      Complot
     BOXCOLOR(X,Y,IFILL,IBORDER) - FILL A RECTANGLE WITH COLOR
                                                                      Complot
                                = DEFINE THE CORNERS OF THE BOX
                                                                      Complot
                                = COLOR TO FILL BOX WITH
                                                                      Complot
                        IBORDER = COLOR OF BORDER OF BOX
                                                                      Complot
                                                                      Complot
     INTERACTIVE
                                                                      Complot
                 _____
                                                                     Complot
     THIS PROGRAM INCLUDES AN INTERACTIVE INTERFACE FOR USE WITH A
                                                                     Complot
     MOUSE. THE INTERFACE INVOLVES 2 SUBROUTINE,
                                                                      Complot
                                                                     Complot
     INTERACT (MYACTION)
                                   - WHETHER OR NOT INTERACTION
                                                                     Complot
              MYACTION
                                   = 0 - NO (RETURNED BY INTERACT)
                                                                     Complot
                                   = 1 - YES (RETURNED BY INTERACT)
                                                                      Complot
                                                                      Complot
     MOUSEY(IWAY, XI, YI, IWAY1, IWAY2) - READ POSITION OF MOUSE
                                                                      Complot
                            IWAY
                                   = 0 - NO INPUT
                                                                      Complot
                                   = 1 - LEFT BUTTON
                                                                     Complot
                                   = 2 - MIDDLE BUTTON
                                                                      Complot
                                   = 3 - RIGHT BUTTON
                                                                     Complot
                                    = 4 - KEYBOARD INPUT
                                                                     Complot
                            ХT
                                   = X POSITION IN LOCAL UNITS
                                                                     Complot
                                   = Y POSITION IN LOCAL UNITS
                                                                     Complot
                            YΤ
                            IWAY1
                                   = MINIMUM ALLOWABLE IWAY
                                                                      Complot
                            IWAY2
                                  = MAXIMUM ALLOWABLE IWAY
                                                                     Complot
                                                                      Complot
    AS USED BY THIS PROGRAM IWAY1
                                   = 1
                                                                      Complot
                            IWAY2
                                                                      Complot
    KEYBOARD INPUT (IWAY=4) MEANS NO ZOOMED PLOT REQUESTED.
                                                                      Complot
    MOUSE INPUT (IWAY=1 TO 3) MEANS A ZOOMED PLOT IS REQUESTED.
                                                                      Complot
    MOUSEY WILL BE CALLED ONCE TO SEE IF A ZOOMED PLOT IS REQUESTED.
                                                                      Complot
    IF IT IS XI WILL BE USED TO DEFINE ONE X (E.G., ENERGY) LIMIT OF
                                                                      Complot
    THE ZOOMED PLOT. MOUSEY WILL THEN BE CALLED A SECOND TIME TO
                                                                      Complot
    DEFINE A SECOND XI TO DEFINE THE OTHER X LIMIT OF THE ZOOMED
                                                                      Complot
    PLOT.
                                                                      Complot
                                                                      Complot
    IF YOU DO NOT WANT INTERACTION YOU SHOULD INCLUDE THE FOLLOWING
                                                                      Complot
     SUBROUTINES IN YOUR GRAPHIC INTERFACE,
                                                                      Complot
                                                                      Complot
    SUBROUTINE INTERACT(MYACTION)
                                                                      Complot
    MYACTION=0
                                                                      Complot
    RETURN
                                                                      Complot
    END
                                                                      Complot
```

SUBROUTINE MOUSEY(IWAY,XI,YI,IWAY1,IWAY2)	Complot
IWAY=4	Complot
XI=0.0 YI=0.0	Complot Complot
RETURN	Complot
END	Complot
	Complot
ALTERNATIVE INTERACTIVE	Complot
	Complot
IF YOU DO NOT HAVE A MOUSE BUT WOULD STILL LIKE TO INTERACTIVE	Complot
INPUT YOU CAN REPLACE SUBROUTINE ACTION IN THIS PROGRAM.	Complot
	Complot
AS DISTRIBUTED SUBROUTINE ACTION USES A MOUSE TO DEFINE LOWER	Complot
AND UPPER ENERGY (OR X) LIMITS WHICH ARE USED TO PRODUCE THE NEXT PLOT. A CALL TO ACTION IS OF THE FORM,	Complot Complot
MEAT FEOT. A CARE TO ACTION IS OF THE FORM,	Complot
CALL ACTION(KACTV, XACT1, XACT2)	Complot
	Complot
KACTV = 0 - NO INTERACTIVE INPUT	Complot
= 1 - INTERACTIVE INPUT	Complot
XACT1 = LOWER ENERGY LIMIT	Complot
XACT2 = UPPER ENERGY LIMIT	Complot
THE MUTURE TO NO THEODY CONTURN THROUGH BUILD DOODD WAS MUTUAL DOODD TO THE	Complot
IF THERE IS NO INTERACTIVE INPUT THE PROGRAM WILL PROCEED TO THE NEXT PLOT REQUESTED BY NON-INTERACTIVE INPUT.	Complot Complot
NEXT FLOT REQUESTED BY NON-INTERACTIVE INFOT:	Complot
IF THERE IS INTERACTIVE INPUT THE PROGRAM WILL USE XACT1 AND	Complot
XACT2 TO DEFINE THE ENERGY LIMITS OF THE NEXT PLOT USING THE	Complot
SAME DATA AS APPEARED ON THE LAST PLOT. AS WITH NON-INTERACTIVE	Complot
INPUT, IF YOU SELECT AN ENERGY RANGE WHERE THE MAXIMUM DIFFERENCE	Complot
IS LESS THAN THAT SPECIFIED BY INPUT NO PLOT WILL BE PRODUCED	Complot
AND THE CODE WILL PROCEED TO THE NEXT PLOT REQUESTED BY	Complot
NON-INTERACTIVE INPUT.	Complot
YOU CAN REPLACE SUBROUTINE ACTION FOLLOWING THE ABOVE CONVENTIONS	Complot Complot
TO ALLOW INTERACTION VIA DIRECT READ OF X LIMITS, LIGHTPEN OR	Complot
WHATEVER FACILITIES YOU HAVE AVAILABLE.	Complot
	Complot
INTERFACING	Complot
	Complot
IN ORDER TO INTERFACE THIS PROGRAM FOR USE ON ANY PLOTTER WHICH	Complot
DOES NOT USE THE ABOVE CONVENTIONS IT IS MERELY NECESSARY FOR THE	Complot
THE USER TO WRITE 5 SUBROUTINES DESCRIBED ABOVE AND TO THEN CALL	Complot
THE LOCAL EQUIVALENT ROUTINES.	Complot Complot
COLOR PLOTS	Complot
	Complot
TO SELECT PLOTTING COLORS SUBROUTINE PEN (DESCRIBED ABOVE) IS USED	Complot
TO SELECT ONE OF THE AVAILABLE COLORS. WHEN RUNNING ON A MAINFRAME	Complot
USING AN IBM GRAPHICS TERMINAL OR ON AN IBM-PC USING A HEWLETT-	Complot
PACKARD PLOTTER THE GRAPHICS INTERFACE (DESCRIBED ABOVE) WILL	Complot
PRODUCE COLOR PLOTS.	Complot
BLACK AND WHITE PLOTS	Complot Complot
BLACK AND WHITE PLOIS	_
WHEN PRODUCING BLACK AND WHITE HARDCOPY ON A MAINFRAME THE USER	Complot
SHOULD ADD A DUMMY SUBROUTINE PEN TO THE END OF THE PROGRAM TO	Complot
IGNORE ATTEMPTS TO CHANGE COLOR. ADD THE FOLLOWING SUBROUTINE,	Complot
	Complot
SUBROUTINE PEN(IPEN)	Complot
RETURN	Complot
END	Complot Complot
CHARACTER SET	-
	Complot
	Complot Complot
THIS PROGRAM USES COMPUTER AND PLOTTER DEVICE INDEPENDENT SOFTWARE	Complot
	Complot
THIS PROGRAM USES COMPUTER AND PLOTTER DEVICE INDEPENDENT SOFTWARE CHARACTERS. THIS PROGRAM COMES WITH A FILE THAT DEFINES THE PEN STROKES REQUIRED TO DRAW ALL CHARACTERS ON AN IBM KEYBOARD (UPPER	Complot Complot Complot Complot
THIS PROGRAM USES COMPUTER AND PLOTTER DEVICE INDEPENDENT SOFTWARE CHARACTERS. THIS PROGRAM COMES WITH A FILE THAT DEFINES THE PEN STROKES REQUIRED TO DRAW ALL CHARACTERS ON AN IBM KEYBOARD (UPPER AND LOWER CASE CHARACTERS, NUMBERS, ETC.) PLUS AN ALTERNATE SET OF	Complot Complot Complot Complot Complot
THIS PROGRAM USES COMPUTER AND PLOTTER DEVICE INDEPENDENT SOFTWARE CHARACTERS. THIS PROGRAM COMES WITH A FILE THAT DEFINES THE PEN STROKES REQUIRED TO DRAW ALL CHARACTERS ON AN IBM KEYBOARD (UPPER	Complot Complot Complot Complot

```
Complot
THE SOFTWARE CHARACTER TABLE CONTAINS X AND Y AND PEN POSITIONS TO Complot
DRAW EACH CHARACTER. IF YOU WISH TO DRAW ANY ADDITIONAL CHARACTERS Complot
OR TO MODIFY THE FONT OF THE EXISTING CHARACTERS YOU NEED ONLY
                                                                    Complot
MODIFY THIS TABLE.
                                                                    Complot
                                                                    Complot
CONTROL CHARACTERS
                                                                    Complot
IN THE SOFTWARE CHARACTER TABLE ALL CHARACTERS TO BE PLOTTED WILL
                                                                   Complot
HAVE PEN POSITION = 2 (DRAW) OR = 3 (MOVE). IN ADDITION THE TABLE
                                                                   Complot
CURRENTLY CONTAINS 4 CONTROL CHARACTERS,
                                                                    Complot
                                                                    Complot
PEN POSITION = 0
                                                                    Complot
                                                                    Complot
SHIFT THE NEXT PRINTED CHARACTER BY X AND Y. 3 CONTROL CHARACTERS
                                                                   Complot
ARE PRESENTLY INCLUDED IN THE SOFTWARE CHARACTER TABLE TO ALLOW
                                                                    Complot
                                                                    Complot
                                                                    Complot
   = SHIFT UP (FOR SUPERSCRIPTS.....X= 0.0, Y= 0.5)
                                                                    Complot
    = SHIFT DOWN (FOR SUBSCRIPTS.....X= 0.0, Y=-0.5)
                                                                    Complot
    = SHIFT LEFT 1 CHARACTER (FOR BACKSPACE...X=-1.0, Y= 0.0)
                                                                    Complot
                                                                    Complot
                                                                    Complot
PEN POSITION =-1
                                                                    Complot
SELECT THE NEXT PRINTED CHARACTER FROM THE ALTERNATE CHARACTER
                                                                    Complot
SET. AT PRESENT THIS CONTROL CHARACTER IS,
                                                                    Complot
                                                                    Complot
   = SWITCH TO ALTERNATE CHARACTER SET
                                                                    Complot
                                                                    Complot
THESE 4 CONTROL CHARACTERS ARE ONLY DEFINED BY THE VALUE OF THE
                                                                    Complot
PEN POSITION IN THE SOFTWARE CHARACTER TABLE (I.E., THEY ARE NOT
                                                                    Complot
HARD WIRED INTO THIS PROGRAM). AS SUCH BY MODIFYING THE SOFTWARE
                                                                    Complot
CHARACTER TABLE THE USER HAS THE OPTION OF DEFINING ANY CONTROL
                                                                    Complot
CHARACTERS TO MEET SPECIFIC NEEDS.
                                                                    Complot
                                                                    Complot
THESE CHARACTERS MAY BE USED IN CHARACTER STRINGS TO PRODUCE
                                                                    Complot
SPECIAL EFFECTS. FOR EXAMPLE, TO PLOT SUBSCRIPT 5, B, SUPERSCRIPT
                                                                   Complot
10 USE THE STRING,
                                                                    Complot
                                                                    Complot
}5B{1{0
                                                                    Complot
                                                                    Complot
TO PLOT B, SUBSCRIPT 5 AND SUPERSCRIPT 10 WITH THE 5 DIRECTLY
                                                                    Complot
BELOW THE 1 OF THE 10 WE CAN USE THE BACKSPACE CHARACTER TO
                                                                    Complot
POSITION THE 1 DIRECTLY ABOVE THE 5 USING THE STRING,
                                                                    Complot
                                                                    Complot
B}5\{1{0
                                                                    Complot
                                                                    Complot
TO PLOT UPPER CASE GREEK GAMMA FOLLOWED BY THE WORD TOTAL (I.E.,
                                                                    Complot
RESONANCE TOTAL WIDTH) USE THE STRING.
                                                                    Complot
                                                                    Complot
1G TOTAL
                                                                    Complot
                                                                    Complot
NOTE, WHEN THESE CONTROL CHARACTERS ARE USED THEY ONLY EFFECT THE
                                                                   Complot
NEXT 1 PRINTED CHARACTER (SEE, ABOVE EXAMPLE OF PLOTTING SUPER-
                                                                    Complot
SCRIPT 10 WHERE THE SHIFT UP CONTROL CHARACTER WAS USED BEFORE THE Complot
1 AND THEN AGAIN BEFORE THE 0 AND THE BACKSPACE AND SHIFT UP
                                                                    Complot
CONTROL CHARACTERS WERE USED IN COMBINATION).
                                                                    Complot
                                                                    Complot
IF THESE 4 CONTROL CHARACTERS ARE NOT AVAILABLE ON YOUR COMPUTER
                                                                    Complot
YOU CAN MODIFY THE SOFTWARE CHARACTER TABLE TO USE ANY OTHER 4
                                                                    Complot
CHARACTERS THAT YOU DO NOT NORMALLY USE IN CHARACTER STRINGS (FOR
                                                                   Complot
DETAILS SEE THE SOFTWARE CHARACTER TABLE).
                                                                    Complot
                                                                    Complot
STANDARD/ALTERNATE CHARACTER SETS
                                                                    Complot
                                                                   Complot
THE SOFTWARE CHARACTER TABLE CONTAINS 2 SETS OF CHARACTERS WHICH
                                                                   Complot
ARE A STANDARD SET (ALL CHARACTERS ON AN IBM KEYBOARD) AND AN
                                                                    Complot
ALTERNATE SET (UPPER AND LOWER CASE GREEK CHARACTERS AND SPECIAL
                                                                    Complot
CHARACTERS). TO DRAW A CHARACTER FROM THE ALTERNATE CHARACTER SET
                                                                   Complot
PUT A RIGHT BRACKET CHARACTER (]) BEFORE A CHARACTER (SEE THE
                                                                    Complot
```

	ABOVE EXAMPLE AND THE SOFTWARE CHARACTER TABLE FOR DETAILS). THIS CONTROL CHARACTER WILL ONLY EFFECT THE NEXT 1 PLOTTED CHARACTER.	Complot Complot
		Complot
	SUB AND SUPER SCRIPTS	Complot
		Complot
	TO DRAW SUBSCRIPT PRECEED A CHARACTER BY }. TO DRAW SUPERSCRIPT	Complot
	PRECEED A CHARACTER BY { (SEE THE ABOVE EXAMPLE AND THE SOFTWARE	Complot
	CHARACTER TABLE FOR DETAILS). THESE CONTROL CHARACTER WILL ONLY	Complot
	EFFECT THE NEXT 1 PLOTTED CHARACTER.	Complot
		Complot
	BACKSPACING	Complot
		_
	TO BACKSPACE ONE CHARACTER PRECEED A CHARACTER BY \ (SEE, THE	Complot
	ABOVE EXAMPLE AND THE SOFTWARE CHARACTER TABLE FOR DETAILS). THIS	Complot
	CONTROL CHARACTER WILL PERFORM A TRUE BACKSPACE AND WILL EFFECT	Complot
	ALL FOLLOWING CHARACTERS IN THE SAME CHARACTER STRING.	Complot
		Complot
	PLOT DIMENSIONS	Complot
		Complot
	ARE DEFINED BY USER INPUT. INTERNALLY THE PROGRAM WILL CREATE A	Complot
	PLOT IN APPROXIMATELY A4 OR 8-1/2 BY 11 INCH FORMAT. DURING	Complot
	OUTPUT THE PLOT IS TRANSFORMED TO THE UNITS (INCHES, CENTIMETERS,	Complot
	MILLIMETERS, WHATEVER) OF THE PLOTTER BEING USED AND OUTPUT.	Complot
		Complot
===	= PLOTTER/GRAPHICS TERMINAL INTERFACE =======================	Complot