				Complot
PROGRAM				Complot
				Complot
		(FEBRUARY, 1983) (MAY, 1983)		Complet
			*MAJOR MODIFICATION.	Complot
	JJ J	(220222211, 1903)	*ADDED SELECTION OF PLOTS BY MAT OR	-
			ZA/MT/ENERGY RANGE (EV).	Complot
			*ADDED VARIABLE AXIS UNITS (PROGRAM	Complot
			CONTROLLEDX=MILLI-EV, EV, KEV,	Complot
			MEVY=MILLI-BARNS, BARNS).	Complot
VERSION	84-1	(APRIL, 1984)	*ADDED SELECTION BY REACTION/ENERGY	Complot
			RANGE.	Complot
			*ADDED IDENTIFY DATA POINTS OPTION (SMALL BOX DRAWN AROUND EACH CROSS	Complet
			SECTION AND RATIO POINT).	Complot
			*IMPROVED NON-IBM GRAPHICS INTERFACE	-
			(ALL CHARACTER POSITIONING NOW	Complot
			BASED ON CHARACTER, NOT RASTER,	Complot
			SIZE).	Complot
VERSION	85-1	(APRIL, 1985)	*SPECIAL I/O ROUTINES TO GUARANTEE	Complot
			ACCURACY OF ENERGY.	Complot
			*DOUBLE PRECISION TREATMENT OF	Complot
			ENERGY (REQUIRED FOR NARROW	Complot
			RESONANCES). *ADDED (ZA,MT) EQUIVALENCE OPTION.	Complet
			*ADDED (ZA,MT) EQUIVALENCE OPTION. *ADDED SMALL PLOT OPTION.	Complot
VERSION	85-2	(AUGUST, 1985)	*FORTRAN-77/H VERSION	Complot
		(JANUARY, 1986)	*ENERGY DEPENDENT SCATTERING RADIUS	Complot
		(DECEMBER, 1986)	*DOUBLE PRECISION PLOT SCALING	Complot
			(REQUIRED FOR NARROW ENERGY RANGES)	Complot
VERSION	88-1	(JULY 1988)	*MAJOR REVISION TO MAKE CODE EASILY	Complot
			INTERFACEABLE TO ALMOST ANY PLOTTER	_
			*WARNINGINPUT PARAMETERS FROM BEEN	_
			CHANGED (SEE, DESCRIPTION BELOW)	Complot
			*COMPUTER INDEPENDENT SOFTWARE CHARACTERS.	Complot
			*COLOR PLOTS.	Complot
			*MT NUMBER DEFINITIONS FROM DATA	Complot
			FILE READ BY PROGRAM	Complot
			*FORTRAN-77 REQUIRED (FORTRAN-H NO	Complot
			SUPPORTED BY THIS PROGRAM).	Complot
			*OPTIONINTERNALLY DEFINE ALL I/O	Complot
			FILE NAMES (SEE, SUBROUTINE FILEIO	Complot
			FOR DETAILS). *IMPROVED BASED ON USER COMMENTS.	Complet
VERSTON.	88-2	(OCTOBER 1988)	*IMPROVED BASED ON USER COMMENTS. *IMPROVED BASED ON USER COMMENTS.	Complot
	JJ 2	(3010DHK 1900)	*ADDED LIVERMORE CIVIC COMPILER	Complot
			CONVENTIONS.	Complot
			*UPDATED TO USE NEW PROGRAM CONVERT	Complot
			KEYWORDS.	Complot
VERSION	89-1	(JANUARY 1989)	*PSYCHOANALYZED BY PROGRAM FREUD TO	Complot
			INSURE PROGRAM WILL NOT DO ANYTHING	-
			CRAZY. *FORTRAN-77/FORTRAN-H COMPATIBLE	Complet
			*FORTRAN-///FORTRAN-H COMPATIBLE *SPECIAL ENDF/B MATERIAL DEFINITIONS	Complot
			(ZA.LT.1000) FROM DATA FILE READ	Complot
			BY PROGRAM.	Complot
VERSION	89-2	(MARCH 1989)	*ADDED ENDF/B-V AND VI MT	Complot
		•	DEFINITIONS. PROGRAM WILL DETERMINE	
			ENDF/B FORMAT BASED ON MF=1,	Complot
			MT=451 AND USE AS PPROPRIATE MT	Complot
			DEFINITIONS. IF NO MF=1, MT=451	Complot
			PROGRAM WILL USE ENDF/B-VI	Complot
		/200000 40000	MT DEFINITIONS.	Complot
		(AUGUST 1990)	*A NEW PROGRAM	Complot
VERSION	90-1		*ADDED THEEDACHTIE MOTION THOUSE	Co
VERSION	90-1		*ADDED 3 CHARACTER FONTS	Complet
VERSION	90-1		*ADDED INTERACTIVE MOUSE INPUT *ADDED 3 CHARACTER FONTS *ADDED PHOTON DATA, MF=23 AND 27	Complot Complot

		*ADDED MAXIMUM RATIO RANGE WHEN	Complot
		PLOTTING RATIOS.	Complot
		*ADDED GRID TYPES	Complot
		*ADDED VARIABLE LINE THICKNESS *WARNINGINPUT PARAMETER FORMAT	Complot Complot
		HAS BEEN CHANGEDSEE DESCRIPTION	Complot
		BELOW.	Complot
VERSION 92-1	(JANUARY 1992)	*ADDED INCIDENT CHARGED PARTICLES	Complot
		(IDENTIFIED IN PLOT TITLES) *ADDED COMPLETELY COMPATIBLE I/O	Complot Complot
		FOR READING FLOATING POINT NUMBERS.	_
VERSION 92-2	(MAY 1992)	*CORRECTED DESCRIPTION OF INPUT	Complot
		PARAMETERS AND EXAMPLE PROBLEMS.	Complot
VERSION 93-1	/MADCH 1002)	*ADDED VARIABLE CHARACTER SIZE INPUT *UPDATE FOR ON SCREEN GRAPHIC	Complot Complot
VERSION 95-1	(MARCH 1993)	OUTPUT USING THE LAHEY COMPILER	Complot
		*ADDED NU-BAR (TOTAL, DELAYED,	Complot
		PROMPT).	Complot
VERSION 94-1	(JANUARY 1994)	*VARIABLE ENDF/B DATA FILENAMES TO ALLOW ACCESS TO FILE STRUCTURES	Complot
		(WARNING - INPUT PARAMETER FORMAT	Complot Complot
		HAS BEEN CHANGED)	Complot
		*CLOSE ALL FILES BEFORE TERMINATING	Complot
IMPOTON OF 1	(MADON 100E)	(SEE, SUBROUTINE ENDIT)	Complot
VERSION 95-1	(MARCH 1995)	*CORRECTED CROSS SECTION MULTIPLIER FOR EQUIVALENCES	Complot Complot
		*CORRECTED RATIO SCALING, FOR	Complot
		MAXIMUM RATIO LESS THAN 1.0	Complot
VERSION 96-1	(JANUARY 1996)	*COMPLETE RE-WRITE	Complot
		*IMPROVED COMPUTER INDEPENDENCE *ALL DOUBLE PRECISION	Complot Complot
		*UNIFORM TREATMENT OF ENDF/B I/O	Complot
		*IMPROVED OUTPUT PRECISION	Complot
		*DEFINED SCRATCH FILE NAMES	Complot
		*INCREASED PAGE SIZE FROM 24000 TO 48000 POINTS	Complot Complot
VERSION 97-1	(APRIL 1997)	*INCREASED PAGE SIZE FROM 48000	Complot
		TO 480000 POINTS	Complot
VERSION 99-1	(MARCH 1999)	*CORRECTED CHARACTER TO FLOATING	Complot
		POINT READ FOR MORE DIGITS *UPDATED TEST FOR ENDF/B FORMAT	Complot Complot
		VERSION BASED ON RECENT FORMAT CHANGE	-
		*GENERAL IMPROVEMENTS BASED ON	Complot
TEDS 2000_1	/PEDDITADY 2000)	USER FEEDBACK *GENERAL IMPROVEMENTS BASED ON	Complot
VERS. 2000-1	(FEBRUARI 2000)	USER FEEDBACK	Complot Complot
VERS. 2002-1	(MAY 2002)	*INPUT PARAMETERS OPTIONAL	Complot
		*CONTROL MINIMUM RATIO RANGE BY INPUT	Complot
VERS. 2004-1	(CEDM 2004)	*OPTIONAL BLACK OR WHITE BACKGROUND *ADDED INCLUDE FOR COMMON	Complot Complot
VERS. 2004-1	(SEF1. 2004)	*INCREASED PAGE SIZE FROM 480000	Complot
		TO 600000 POINTS	Complot
		*ADDED NEW REICH-MOORE TO FILE2 TO	Complot
		ALLOW IDENTIFICATION OF RESOLVED AND ANY FOLLOWING UNRESOLVED RESONANCE	Complot Complot
		REGIONS.	Complot
VERS. 2007-1	(JAN. 2007)	*CHECKED AGAINST ALL ENDF/B-VII.	Complot
		*INCREASED MAXLOAD TO 600,000 FROM	Complot
VERS. 2009-1	(JAN. 2009)	12,000 *IGNORED DIFFERENCES NEAR RESONANCE	Complot Complot
2009 1	(3141. 2003)	REGION BOUNDARIES (RESOLVED AND	Complot
		UNRESOLVED).	Complot
VERS. 2010-1	(July 2010)	*Allow comparison plot even if there	Complot
		is no difference (just see data). *ONLY plot linearly interpoolable data	Complot
		*Include threshold energy points to	Complot
		show cross sections, but NOT ratios	Complot
THE 0011 1	/Ton 0011)	near threshold.	Complot
VERS. 2011-1	(Jan. 2011)	*Increased MT.DAT from 200 to 1,000 entries, to accommodate new MTs.	Complot Complot
VERS. 2012-1	(Aug. 2012)	*Increased incident particle list to	Complot
	= :	- -	=

	include photon (ZA = 0).	Complot
	*Added CODENAME	Complot
	*32 and 64 bit Compatible	Complot
	*Added ERROR stop	Complot
VERS. 2013-1 (Nov. 2013)	*ONLY use min/max ratios to decide	Complot
	whether or not to plot - non-positive	-
	cross sections are no longer used.	Complot
	*Limited per-cent differences to fit output format = -9999 to +9999 %.	Complot
	*OUT9 replaced NORMX	Complot Complot
VERS. 2015-1 (Jan. 2015)	*Added MF=10 Radionuclide Production	Complot
vano: 2015 1 (5am: 2015)	which requires longer plot titles.	Complot
	*Restricted character size multiplier	Complot
	to 0.5 to 1.5 to accommodate longer	Complot
	plot titles.	Complot
	*Replaced ALL 3 way if statements.	Complot
VERS. 2015-2 (Mar. 2015)	*Corrected tables for X and Y axis	Complot
	labels = see change search for 2015-2	Complot
VERS. 2015-3 (Oct. 2015)	*Allow multiple LRF=7 regions plus	Complot
	unreslved region - earlier assumed	Complot
1777 0017 1 (Marc 0017)	LRF=7 never used unressolved.	Complot
VERS. 2017-1 (May 2017)	*For MF=2 use MT=151 to define	Complot
	Unresolved Resonance Region (URR).	Complot
	Ignore NJOY MT=152 and 153. *All floating input parameters changed	Complot
	to character input + IN9 conversion.	Complot
	*Added MF=4 Legendre Coefficient	Complot
	Comparison: fl through f6	Complot
Vers. 2018-1 (Jan. 2018)	*Doubled in core storage to 1,200,000.	_
	*Replaced Q MeV by MT= at top of plots	_
	(Q value in ENDF is now only defined	Complot
	in MF=3, making it difficult for all	Complot
	other MF now treated by this code)	Complot
	*Initial Linear X scaling for MF=1	Complot
	(nu-bar) and MF=4 (Legendre) =	Complot
	this can be turned OFF by ZOOM	Complot
	+ Unless energy range is requested =	Complot
	allows MF=1 and 4 default Linear X	Complot
	scaling to be turned off by input parameters, i.e., by COMHARD	Complot Complot
	*Zoom lower energy limit restricted	Complot
	1.0d-5 eV - to lower zoom of linear	Complot
	energy plots (otherwise cannot find	Complot
	actual lower limit on plot).	Complot
	*Added NRO = energy dependent scatter	Complot
	radius to reading FILE2 parameters	Complot
	to define unresolved energy range.	Complot
	*Corrected energy dependent scatter	Complot
	for all resonance types (see, above	Complot
Warra 2010 1 (7 0010)	remarks).	Complot
Vers. 2019-1 (June 2019)	*Additional Interpolation Law Tests	Complot
	*Checked Maximum Tabulated Energy to insure it is the same for all MTs -	Complot Complot
	if not, print WARNING messages.	Complot
	, princ manine messages.	Complot
2015-2 Acknowledgment		Complot
=======================================		Complot
I thank Chuck Whitmer (Terra	aPower,WA) for reporting the errors	Complot
that led to the 2015-2 Impro		Complot
-		Complot
-	let (UKAEA) for contributing MAC	Complot
_	n (IJS, Slovenia) for contributing	Complot
	ables. And most of all I must thank	Complot
	r overseeing the entire PREPRO project	Complot
	truly International team who worked	Complot
together to produce PREPRO 2	2015-2.	Complot
OWNED MAINMAINED AND DIGHTS	TRITMEN DV	Complot
OWNED, MAINTAINED AND DISTR	IDUTED BI	Complot
THE NUCLEAR DATA SECTION		Complot Complot
INTERNATIONAL ATOMIC ENERGY	AGENCY	Complot
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P.O. BOX 100	Complot
A-1400, VIENNA, AUSTRIA	Complot
EUROPE	Complot
	Complot
ORIGINALLY WRITTEN BY	Complot
	Complot
Dermott E. Cullen	Complot
	Complot
PRESENT CONTACT INFORMATION	Complot
	Complot
Dermott E. Cullen	Complot
	-
1466 Hudson Way	Complot
Livermore, CA 94550	Complot
U.S.A.	Complot
Telephone 925-443-1911	Complot
E. Mail RedCullen1@Comcast.net	Complot
Website RedCullen1.net/HOMEPAGE.NEW	Complot
	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	, Complot
PARTICULARLY THE COMMENTS CONCERNING MACHINE DEPENDENT CODING.	Complot
	Complot
AT THE PRESENT TIME WE ARE ATTEMPTING TO DEVELOP A SET OF COMPUTE	-
INDEPENDENT PROGRAMS THAT CAN EASILY BE IMPLEMENTED ON ANY ONE	Complot
OF A WIDE VARIETY OF COMPUTERS. IN ORDER TO ASSIST IN THIS PROJEC	-
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	Complot
THIS PROGRAM WILL BE COMPLETELY COMPATIBLE FOR USE ON YOUR	Complot
COMPUTER.	-
COMPUTER.	Complot
PUPPOGE	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
TAPEWILL BE USED. IN FACT THE ACTUAL MEDIUM MAY BE TAPE, CARDS,	Complot
DISK OR ANY OTHER MEDIUM.	Complot
	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	Complot
OF THE PLOTTER BEING USED, BY INPUT PARAMETERS. USING THESE	Complot
CONVENTIONS THIS PROGRAM CAN BE EASILY INTERFACED TO VIRTUALLY	Complot
ANY PLOTTER.	Complot
1201124	Complot
FOR SPECIAL CONSIDERATIONS SEE THE SECTIONS BELOW ON,	Complot
(1) COMPUTER DEPENDENT CODING	Complot
(2) PLOTTER/GRAPHICS TERMINAL INTERFACE	Complot
(2) FLOTTER/GRAFFITCS TERMINAL INTERFACE	-
CDADUTCS THEEDEACE	Complot
GRAPHICS INTERFACE	Complot
	- Complot
THIS PROGRAM USES A SIMPLE CALCOMP LIKE GRAPHICS INTERFACE WHICH	Complot
REQUIRES ONLY 3 SUBROUTINESPLOTS, PLOT AND PEN (DESCRIBED IN	Complot
DETAIL BELOW). ALL CHARACTERS AND SYMBOLS ARE DRAWN USING TABLES	Complot
OF PEN STROKES (SUPPLIED WITH THIS PROGRAM). USING THIS METHOD	Complot
THE PROGRAM SHOULD BE SIMPLE TO INTERFACE TO VIRTUALLY ANY PLOTTE	-
OR GRAPHICS TERMINAL AND THE APPEARANCE AND LAYOUT OF THE PLOTS	Complot
SHOULD BE INDEPENDENT OF WHICH PLOTTER IS USED.	Complot
	Complot
2015 PLOTTER DIMENSIONS	Complot
	_
	-

PLOTTER DIMENSIONS ARE IN INCHES - NOT CM, MM, OR CUBITS. THIS IS DONE FOR HISTORICAL REASONS AND HOPEFULLY THIS WILL NOT INCONVENIENCE ANYONE - IN PRACTICE I HAVE USED EXACTLY THE SAME DIMENSION = X = 0 to 12.5 and Y = 0 to 10 FOR DECADES TO PRODUCE BOTH ON-SCREEN AND HARDCOPY POSTSCRIPT PLOTS.

I STRONGLY SUGGEST THAT YOU NOT CHANGE THESE DIMENSIONS UNLESS YOU MUST = BASED ON THE PLOT SIZE YOU OBTAIN WHEN YOU FIRST RUN THIS CODE.

PROGRAM IDENTIFICATION

AS DISTRIBUTED THE FIRST FRAME OF PLOTTED OUTPUT WILL DOCUMENT THE PROGRAM NAME, VERSION AND INSTALLATION. THIS INFORMATION IS STORED AS DATA IN THE ARRAY VERSES NEAR THE BEGINNING OF SUBROUTINE FRAME1. IF YOU WISH TO CUSTOMIZE THE OUTPUT TO IDENTIFY Complot YOUR INSTALLATION CHANGE THE LAST TWO LINES OF THE ARRAY (VERSES).

ENDF/B FORMAT

THIS PROGRAM ONLY USES THE ENDF/B BCD OR CARD IMAGE FORMAT (AS OPPOSED TO THE BINARY FORMAT) AND CAN HANDLE DATA IN ANY VERSION 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 SECTIONS OF FILE 2 (RESONANCE PARAMETERS) AND FILES 3, 23 AND 27 (TABULATED DATA) WILL BE READ AND ALL OTHER SECTIONS WILL BE SKIPPED. IN FILE 2 THE ONLY IMPORTANT INFORMATION IS THE ENERGY LIMITS OF THE RESOLVED AND UNRESOLVED RESONANCE REGION WHICH IS LOCATED IN THE SAME FIELDS IN ALL VERSIONS OF THE ENDF/B FORMAT. SIMILARLY THE FORMAT OF FILES 3, 23 AND 27 IS THE SAME IN ALL VERSIONS OF ENDF/B. THEREFORE THIS PROGRAM CAN BE USED WITH DATA IN ANY ENDF/B FORMAT (I.E. ENDF/B-I, II, III, IV, V OR VI).

CROSS SECTION INTERPOLATION

CROSS SECTIONS MUST BE IN EITHER HISTOGRAM (I.E., INTERPOLATION LAW 1) OR LINEARLY INTERPOLABLE (I.E. INTERPOLATION LAW 2) FORM. IF THEY ARE NOT A WARNING MESSAGE WILL BE PRINTED AND EXECUTION WILL BE TERMINATED. SEE INSTRUCTIONS BELOW ON HOW TO CONVERT DATA TO HISTOGRAM OR LINEARLY INTERPOLABLE FORM.

REACTION INDEX

THIS PROGRAM DOES NOT USE THE REACTION INDEX WHICH IS GIVEN IN SECTION MF=1, MT=451 OF EACH EVALUATION.

SECTION SIZE

SINCE THIS PROGRAM USES A LOGICAL PAGING SYSTEM THERE IS NO LIMIT TO THE NUMBER OF POINTS IN ANY SECTION, E.G., THE TOTAL CROSS SECTION MAY BE REPRESENTED BY 200,000 DATA POINTS.

DATA SELECTION

THE USER MAY SPECIFYING THE DATA TO BE COMPARED BY INPUTTING UP TO 100 MAT/MT/ENERGY OR ZA/MT/ENERGY RANGES. IF THE UPPER LIMIT 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 MAT OR ZA). IF THE UPPER LIMIT IS STILL ZERO IT WILL BE SET TO 9999 (NO LIMIT). IF THE UPPER MF OR MT LIMIT IS ZERO IT WILL BE SET TO 99 OR 999, RESPECTIVELY (NO LIMIT). IF THE UPPER ENERGY LIMIT IS ZERO IT WILL BE SET TO A LARGE NUMBER (NO LIMIT).

THE LIST OF RANGES MUST BE TERMINATED BY A BLANK LINE (I.E. ZERO LOWER AND UPPER MAT/MF/MT OR ZA/MF/MT LIMITS).

IF THE FIRST RANGE LINE IS BLANK THIS LINE WILL TERMINATE THE LIST OF REQUESTS (I.E. A SECOND BLANK LINE NEED NOT BE INPUT) AND ALL PHYSICALLY COMPARABLE DATA WILL BE PLOTTED.

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WHICH REACTIONS WILL BE PLOTTED

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THOSE REACTIONS WITH THE SAME (ZA, MF, MT) WILL BE COMPARED, BUT ONLY THOSE DATA WHICH DIFFER BY A USER SPECIFIED ALLOWABLE DIFFERENCE WILL BE PLOTTED. IN ORDER TO FORCE ALL COMPARABLE REACTIONS TO BE PLOTTED THE USER NEED ONLY SPECIFY AN ALLOWABLE DIFFERENCE OF ZERO.

EQUIVALENT REACTIONS

IN ORDER TO COMPARE REACTIONS WHICH HAVE DIFFERENT ZA, MF OR MT
THE USER IS ALLOWED TO SPECIFY AN EQUIVALENCE LIST OF UP TO
Complot
00 (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
FROM THE SAME OR DIFFERENT MATERIALS (E.G. U-235 CAPTURE AND
Complot
FISSION - IN WHICH CASE THE RATIO WILL BE THE CAPTURE TO FISSION
FORMAT WHICH MAY BE ASSIGNED DIFFERENT WE NOT THE ENDF/B
COMPLOT
FORMAT WHICH MAY BE ASSIGNED DIFFERENT MT NUMBERS, E.G., THE
COMPLOT
VERSIONS OF ENDF/B, BUT IS MT=522 IN ENDF/B-VI.

COMPLOT
CO

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

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

- (0) THE STANDARD CROSS SECTION (I.E. FIRST EVALUATION) AND THE RATIO OF THE SECOND EVALUATION TO THE FIRST EVALUATION. THE DATA WILL BE PRESENETED 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 Complot SECOND EVALUATION. THE DATA WILL BE PRESENTED AS TWO SUB-PLOTS Complot PER PLOT WITH THE STANDARD CROSS SECTION ON THE UPPER HALF Complot OF THE PLOT AND THE SECOND CROSS SECTION IN THE LOWER HALF OF Complot 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

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TWO THIRDS OF THE PLOT AND THE RATIO OF THE TWO IN THE LOWER THIRD OF THE PLOT. THE STANDARD CROSS SECTION WILL BE Complot PRESENTED AS A SOLID LINE AND THE SECOND CROSS SECTION WILL BE Complot PRESENTED AS A DASHED LINE. Complot Complot ADDITIONAL PLOT FEATURES Complot Complot IN ADDITION TO THE CROSS SECTIONS AND/OR RATIO THE FOLLOWING Complot INFORMATIONS WILL BE INCLUDED ON EACH PLOT. Complot Complot (1) AN IDENTIFICATION FOR EACH SET OF CROSS SECTIONS (UP TO 30 Complot CHARACTERS FOR EACH SET). Complot Complot (2) THE MAXIMUM NEGATIVE AND POSITIVE PER-CENT DIFFERENCE BETWEEN Complot THE TWO CROSS SECTIONS. Complot Complot (3) ARROWS INDICATING THE ENERGY AT WHICH THE MAXIMUM DIFFERENCES Complot (MINIMUM AND MAXIMUM RATIO) OCCUR. Complot Complot (4) THE ENERGY LIMITS OF THE RESOLVED AND UNRESOLVED RESONANCE Complot REGION (IF THEY FALL WITHIN THE ENERGY LIMITS OF THE PLOT). Complot Complot RATTO DATA Complot Complot IF RATIO OUTPUT IS REQUESTED THE RATIO WILL BE DEFINED AT EACH Complot ENERGY THAT APPEARS IN EITHER EVALUATION. BETWEEN THESE ENERGIES Complot THE RATIO WILL BE PLOTTED ASSUMING LINEAR DEPENDENCE BETWEEN Complot TABULATED VALUES. FOR HISTOGRAM OR LINEARLY INTERPOLABLE CROSS Complot SECTIONS THIS REPRESENTATION WILL POINT OUT ALL EXTREMA OF THE Complot RATIO, BUT NOT NECESSARILY THE ENERGY DEPENDENCE BETWEEN TABULATED Complot Complot Complot IF THE EVALUATED DATA IS NOT IN EITHER HISTOGRAM OR LINRARLY Complot INTERPOLABLE FORM THE RATIO MAY NOT EVEN FIND ALL EXTREMA. FOR Complot EXAMPLE, IF ONE EVALUATION IS LINEARLY INTERPOLABLE AND THE Complot OTHER 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 FACT THE CROSS SECTION BETWEEN TABULATED ENERGIES MAY BE QUITE Complot DIFFERENT USING LINEAR VS. NON-LINEAR INTERPOLATION. FOR THIS Complot Complot REASON ONLY LINEARLY INTERPOLABLE OR HISTOGRAM DATA IS ALLOWED AS INPUT TO THIS PROGRAM. Complot Complot LINEAR INTERPOLABLE Complot Complot Complot ALL CROSS SECTIONS MAY BE CONVERTED TO LINEARLY INTERPOLABLE FORM BE USING PROGRAM LINEAR (UCRL-50400, VOL. 17, PART A). Complot Complot HISTOGRAM Complot Complot ALL LINEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO Complot HISTOGRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE Complot (UCRL-50400, VOL. 17, PART D). Complot Complot INPUT UNITS Complot Complot UNIT DESCRIPTION Complot Complot INPUT LINE 2 Complot MT DEFINITIONS. Complot FIRST ENDF/B FORMATTED EVALUATION (STANDARD). 10 Complot SECOND ENDF/B FORMATTED EVALUATION. Complot 17 SOFTWARE CHARACTERS. Complot SOFTWARE SYMBOLS AND LINE TYPES Complot Complot OUTPUT UNITS Complot Complot UNIT DESCRIPTION Complot Complot NORMAL OUTPUT REPORT. 3 Complot 16 PLOTTER UNIT Complot

Complot

O-11 T T	DESCRIPT	TON		Cor
				Cor
12			FIRST EVALUATION	Cor
13			SECOND EVALUATION	Cor
14			RATIO (ONLY USED IF RATIOS REQUESTED).	Cor
T-4	SCRAICH	ONII FOR	RATIO (ONLI OSED IF RATIOS REQUESTED).	Cor
ОРТТО	NAT. STAND	ARD ETT.E	NAMES (SEE SUBROUTINE FILIO1 AND FILIO2)	Cor
				Cor
	FILE NAM			Cor
				Cor
2	COMPLOT.			Cor
3	COMPLOT.			Cor
9	MT.DAT			Cor
10		i1 (OR	AS READ FROM INPUT)	Cor
11	ENDFB.IN	-	AS READ FROM INPUT)	Cor
12-14	(SCRATCH		·	Cor
15	PLOT.CHR	-		Cor
16	(PLOTTER	UNIT	USUALLY A DUMMY)	Cor
				Cor
	PARAMETE			Cor
				Cor
			DESCRIPTION	Cor
				Cor
1	1-11	E11.4	LOWER X LIMIT OF PLOTTER	Cor
	12-22	E11.4	UPPER X LIMIT OF PLOTTER	Cor
	23-33	E11.4	LOWER Y LIMIT OF PLOTTER	Cor
	34-44	E11.4	UPPER Y LIMIT OF PLOTTER	Cor
	45-55	I11	NUMBER OF PLOTS PER FRAME IN X DIRECTION	Cor
	56-66	I11	NUMBER OF PLOTS PER FRAME IN Y DIRECTION	Cor
	67-70	F4.1	CHARACTER SIZE MULTIPLIER	Cor
			= 0 TO 1 - NORMAL CHARACTER SIZE	Cor
			= OTHERWISE - CHARACTERS SCALED BY THIS	Cor
			FACTOR	Cor
				Cor
			PLOT ORIENTATION IS BASED ON THE UPPER X	Cor
			LIMIT	Cor
			= .GT.0 - X HORIZONTAL/Y VERTICAL	Cor
			= .LT.0 - Y HORIZONTAL/X VERTICAL	Cor
			AFTER TESTING THE UPPER X LIMIT WILL BE	Cor
2	1-72	770	SET TO ITS ABSOLUTE VALUE.	Cor
2	1-72	A72	FILENAME FOR FIRST ENDF/B DATA FILE	Cor
3	1-72	A72	(LEAVE BLANK FOR ENDFB.IN1) FILENAME FOR SECOND ENDF/B DATA FILE	Cor
3	1-72	A/Z	(LEAVE BLANK FOR ENDFB.IN2)	
4	1-11	I11	· ·	Cor
*	12-22	I11	GRID (SPEED) OPTION.	Cor
	12 -22	111	= 0 - TICK MARKS ON BORDER	Cor
			= 1 - SOLID AT COARSE INTERVALS	Cor
			= 2 - DASHED AT COARSE INTERVALS	Cor
			= 3 - SOLID AT COARSE AND FINE INTERVALS	Cor
			= 4 - DASHED AT COARSE AND FINE INTERVALS	Cor
			= 5 - SOLID COARSE/DASHED FINE INTERVALS	Cor
	23-33	I 11		
	23-33	111	SHOULD BORDER BE PLOTTED AROUND EACH PLOT	Cor
	23-33	111		Cor
	23-33 34-44	I11 I11	SHOULD BORDER BE PLOTTED AROUND EACH PLOT = $0 - NO$	Cor Cor Cor
			SHOULD BORDER BE PLOTTED AROUND EACH PLOT = 0 - NO = 1 - YES	Cor Cor Cor
			SHOULD BORDER BE PLOTTED AROUND EACH PLOT = 0 - NO = 1 - YES LINE THICKNESS	Cor Cor Cor Cor
			SHOULD BORDER BE PLOTTED AROUND EACH PLOT = 0 - NO = 1 - YES LINE THICKNESS = 0 TO 5 - LINES AND CHARACTERS	Cor Cor
	34-44	111	SHOULD BORDER BE PLOTTED AROUND EACH PLOT = 0 - NO = 1 - YES LINE THICKNESS = 0 TO 5 - LINES AND CHARACTERS =-1 TO -5 - ONLY LINES	Cor Cor Cor Cor Cor Cor
	34-44	111	SHOULD BORDER BE PLOTTED AROUND EACH PLOT = 0 - NO = 1 - YES LINE THICKNESS = 0 TO 5 - LINES AND CHARACTERS =-1 TO -5 - ONLY LINES OUTPUT MODE	Cor Cor Cor Cor Cor Cor Cor
	34-44	111	SHOULD BORDER BE PLOTTED AROUND EACH PLOT = 0 - NO = 1 - YES LINE THICKNESS = 0 TO 5 - LINES AND CHARACTERS =-1 TO -5 - ONLY LINES OUTPUT MODE =-1 - ONLY COMPARISON LISTING. NO PLOTS.	Cor Cor Cor Cor Cor Cor Cor
	34-44	111	SHOULD BORDER BE PLOTTED AROUND EACH PLOT = 0 - NO = 1 - YES LINE THICKNESS = 0 TO 5 - LINES AND CHARACTERS =-1 TO -5 - ONLY LINES OUTPUT MODE =-1 - ONLY COMPARISON LISTING. NO PLOTS. = 0 - CROSS SECTION OVER RATIO.	Cor Cor Cor Cor Cor Cor Cor Cor
	34-44	111	SHOULD BORDER BE PLOTTED AROUND EACH PLOT = 0 - NO = 1 - YES LINE THICKNESS = 0 TO 5 - LINES AND CHARACTERS =-1 TO -5 - ONLY LINES OUTPUT MODE =-1 - ONLY COMPARISON LISTING. NO PLOTS. = 0 - CROSS SECTION OVER RATIO. = 1 - CROSS SECTION.	Cor Cor Cor Cor Cor Cor Cor Cor Cor
	34-44	111	SHOULD BORDER BE PLOTTED AROUND EACH PLOT = 0 - NO = 1 - YES LINE THICKNESS = 0 TO 5 - LINES AND CHARACTERS =-1 TO -5 - ONLY LINES OUTPUT MODE =-1 - ONLY COMPARISON LISTING. NO PLOTS. = 0 - CROSS SECTION OVER RATIO. = 1 - CROSS SECTION OVER CROSS SECTION. = 2 - TWO CROSS SECTIONS ON SAME PLOT.	Cor Cor Cor Cor Cor Cor Cor Cor Cor
	34-44	111	SHOULD BORDER BE PLOTTED AROUND EACH PLOT = 0 - NO = 1 - YES LINE THICKNESS = 0 TO 5 - LINES AND CHARACTERS =-1 TO -5 - ONLY LINES OUTPUT MODE =-1 - ONLY COMPARISON LISTING. NO PLOTS. = 0 - CROSS SECTION OVER RATIO. = 1 - CROSS SECTION OVER CROSS SECTION. = 2 - TWO CROSS SECTIONS ON SAME PLOT. = 3 - CROSS SECTION OVER CROSS SECTION OVER	Cor Cor Cor Cor Cor Cor Cor Cor Cor Cor
	34-44	111	SHOULD BORDER BE PLOTTED AROUND EACH PLOT = 0 - NO = 1 - YES LINE THICKNESS = 0 TO 5 - LINES AND CHARACTERS =-1 TO -5 - ONLY LINES OUTPUT MODE =-1 - ONLY COMPARISON LISTING. NO PLOTS. = 0 - CROSS SECTION OVER RATIO. = 1 - CROSS SECTION OVER CROSS SECTION. = 2 - TWO CROSS SECTIONS ON SAME PLOT. = 3 - CROSS SECTION OVER CROSS SECTION OVER RATIO.	Cor Cor Cor Cor Cor Cor Cor Cor Cor Cor
	34-44	111	SHOULD BORDER BE PLOTTED AROUND EACH PLOT = 0 - NO = 1 - YES LINE THICKNESS = 0 TO 5 - LINES AND CHARACTERS =-1 TO -5 - ONLY LINES OUTPUT MODE =-1 - ONLY COMPARISON LISTING. NO PLOTS. = 0 - CROSS SECTION OVER RATIO. = 1 - CROSS SECTION OVER CROSS SECTION. = 2 - TWO CROSS SECTIONS ON SAME PLOT. = 3 - CROSS SECTION OVER CROSS SECTION OVER RATIO. = 4 - TWO CROSS SECTIONS ON SAME PLOT OVER	Con Con Con Con Con Con Con Con Con Con

			= .GT.0 - NUMBER PLOTS IN LOWER LEFT HAND	Complot
	67-70	I41	CORNER STARTING WITH INPUT NUMBER BACKGROUND COLOR	Complot
	0, ,0	141	= 0 = BLACK	Complot
			= OTHERWISE = WHITE	Complot
5	1-11	E11.4	ALLOWABLE FRACTIONAL DIFFERENCE. USED WHEN	Complot
			PLOTTING RATIOS. ANY REACTION WHERE THE	Complot
			TWO EVALUATIONS DIFFER BY MORE THAN THE	Complot
			ALLOWABLE DIFFERENCE WILL BE PLOTTED. IF ZERO IS INPUT THE STANDARD ALLOWABLE	Complet
			DIFFERENCE OF 0.001 (0.1 PER-CENT) WILL BE	Complot Complot
			USED.	Complot
	12-22	E11.4	MAXIMUM ALLOWABLE RATIO. IF RATIOS ARE	Complot
			PLOTTED THEY WILL BE IN THE RANGE RATMAX	Complot
			TO 1/RATMAX. IF 0.0 IS INPUT THERE WILL	Complot
			BE NO LIMIT ON THE RANGE OF THE RATIOS.	Complot
			THIS OPTION MAY BE USED TO IGNORE LARGE DIFFERENCES OVER VERY NARROW ENERGY RANGES	Complot Complot
			(WHICH MAY BE UNIMPORTANT) AND ALLOW ONE	Complot
			TO SEE IMPORTANT, BUT SMALLER DIFFERENCES,	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	Complot
8-N	1- 6	16	TO START IN COLUMN 1). LOWER MAT OR ZA LIMIT (SEE SELECTION MODE,	Complot Complot
0 14			INPUT LINE 1, COLUMNS 1-11).	Complot
	7- 8	12	LOWER MF LIMIT	Complot
	9-11	I3	LOWER MT LIMIT	Complot
	12-22	E11.4	LOWER ENERGY LIMIT	Complot
	23-28	16	UPPER MAT OR ZA LIMIT (SEE SELECTION MODE,	Complot
	29-30	12	INPUT LINE 1, COLUMNS 1-11). UPPER MF LIMIT	Complot Complot
	31-33	13	UPPER MT LIMIT	Complot
	34-44	E11.4	UPPER ENERGY LIMIT	Complot
	45-55	I11	IDENTIFY EVALUATED DATA POINTS OPTION.	Complot
			= 0 - DO NOT IDENTIFY DATA POINTS.	Complot
			= 1 - IDENTIFY DATA POINTS (BY DRAWING A	Complot
	56-66	I11	SMALL BOX AROUND EACH POINT). INTERACTIVE INPUT FLAG	Complot Complot
	30 00	111	= 0 - NO INTERACTIVE INPUT ALLOWED	Complot
			= 1 - INTERACTIVE INPUT ALLOWED	Complot
			*SETTING THIS OPTION =1 WILL TURN ON THE	Complot
			MOUSE AFTER EACH PLOT AND ALLOW YOU TO	Complot
			INTERACTIVELY SPECIFY PLOT LIMITS. *IF YOU DO NOT WISH TO INTERACT WITH A PLOT	Complot
			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	Complot
			(I.E. THOUSANDS) OF DATA POINTS SINCE IT	Complot
			WILL MERELY INCREASE THE RUNNING TIME OF THE PROGRAM AND STILL NOT ALLOW ONE TO	Complot Complot
			ACCURATELY SEE DATA POINTS.	Complot
				Complot
			*UP TO 100 MAT OR ZA RANGES ARE ALLOWED.	Complot
			THE LIST IS TERMINATED BY A BLANK LINE.	Complot
			IF THE UPPER LIMIT IS LESS THAN THE LOWER	Complot
			LIMIT IT WILL BE SET EQUAL TO THE LOWER LIMIT. IF THE FIRST RANGE LINE IS BLANK	Complot Complot
			ALL DATA WILL BE RETRIEVED. IF THE UPPER	Complot
			MT LIMIT IS ZERO IT WILL BE SET EQUAL TO	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	Complot
			WILL TERMINATE THE LIST BE RANGE LINES (A SECOND BLANK LINE NEED NOT BE INPUT)	Complot Complot
			AND THE ENTIRE RANGE OF MATS WILL BE	Complot
			COMPARED FOR THE SPECIFIED MT AND ENERGY	Complot
				-

N+1-M EQUIVALENCES		Complot
J+1−M E∩ITVATENCES		Complot
~		Complot
1-6 I6 MASTER ZA.		Complot
7-8 I2 MASTER MF.		Complot
9-11 I3 MASTER MT.		Complot
12-17 I6 EQUIVALENT ZA FROM SECOND		Complot
18-19 I2 EQUIVALENT MF FROM SECOND		Complot
20-22 I3 EQUIVALENT MT FROM SECOND		Complot
23-33 E11.4 MULTIPLICATION FACTOR. AN		Complot
MT DATA WILL BE MULTIPLIED		Comploi
*THIS OPTION MAY BE USED TO		Comploi
THE SECOND CROSS SECTION (Complot
ONE CONSTITUENT OF A MIXTU CROSS SECTION THIS MAY BE		Complot
THE SECOND CROSS SECTION 1		-
ATOM BY USING A MULTIPLICA		-
IS EQUAL TO THE NUMBER OF		-
CONSTITUENT PER ATOM OF THE		Complot
= 0.0 - ON INPUT WILL BE		Complot
(WITH THIS CONVENTION THE		Complot
INPUT MULTIPLICATION FACTO		Complot
NOT 1.0).	ORS IF IHEI ARE	Complot
*UP TO 100 MAT OR ZA EQUIVA	ALENCES ADE	Complot
ALLOWED.	ALENCES ARE	Complot
*THE LIST IS TERMINATED BY	A BLANK LINE	Complot
*A ZERO INPUT FIELD IMPLIES		Complot
A GIVEN MT NUMBER TO ANOTE	· · · · · · · · · · · · · · · · · · ·	Complot
NEED MERELY SPECIFY ZA=0 (Complot
*NOTE, IN ALL CASES THE TI		-
WILL ONLY INDENTIFY MASTER		Complo
USER INPUT TITLES MUST BE		Complo
THE SECOND REACTION (SEE,		Complot
BELOW).		Complot
,		Complot
EXAMPLE DEFINITION OF PLOTTER		Complot
		Complot
2015 - WARNING - THE FOLLOWING DESCRIPTION IS OUT	I-OF-DATE.	Complot
TODAY THE DIMENSIONS OF THE PLOTTER ARE IN INCHES	S.	~ -
		Compto
		Complot
THE FIRST INPUT LINE DEFINES THE DIMENSIONS OF TH	HE PLOTTER BEING	Complo
THE FIRST INPUT LINE DEFINES THE DIMENSIONS OF THE USED IN ANY UNITS (INCHES, CENTIMETERS, MILLIMETERS)		_
	ERS, ANYTHING)	Complo
USED IN ANY UNITS (INCHES, CENTIMETERS, MILLIMETERS)	ERS, ANYTHING) I LINE DEFINES	Comploi Comploi Comploi
USED IN ANY UNITS (INCHES, CENTIMETERS, MILLIMETER WHICH APPLY TO THE PLOTTER. IN ADDITION THE FIRST	ERS, ANYTHING) I LINE DEFINES PLOTTING AREA	Comploi Comploi Comploi Comploi
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- COLUMNS 23-33 OF SECOND INPUT LINE = 0
- COLUMNS 34-44 OF SECOND INPUT LINE = -2
- COLUMNS 45-55 OF SECOND INPUT LINE = 3

Complot

Complot

Complot

2) NO BORDER

3) LINE THICKNESS

4) OUTPUT MODE

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1	1	0	-2	3	1	Complot
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IS ENDF/	B-V (OR EARLII	ER) YOU	MAY EQUATE M	T=522 TO 602.		Complot
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DEFINE A IN ORDER MATERIAL: 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-VI ENDF/B-V 023522 023522 EXAMPLE: THE SAME BE USED: 11 INPUT 0.0 /Evaluated/! /Evaluated/! 0 0.01	TO COMPARE TO S THE FOLLOWING 10.0 1.1 1.1 99992: 023602 INPUT 6 EXAMPLE AS AUTO READ THE DO LINES ARE REGULATION ENDFB5/PHOTON ENDFB5/PHOTON	O OF 1/ HE PHOT NG 11 I 0.0 0 3522 BOVE, E ATA FRO QUIRED. 0.0 .IN .IN	1.1, OR ABOUT DELECTRIC CRO NPUT LINES AR 10.0 -2 (TERMIN (MULTIP (TERMIN XCEPT THAT DI M A FILE TREE	O.9. SS SECTION FOR A E REQUIRED. 3 ONATES REQUEST LICATION OF 1.0 ATES EQUIVALENCE FFERENT FILENAME STRUCTURE. THE	2 1 ST) INFERRED) E LIST) ES WILL FOLLOWING	Complot
DEFINE A IN ORDER MATERIAL: 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-VI ENDF/B-V 023522 023522 EXAMPLE: THE SAME BE USED: 11 INPUT 0.0 /Evaluated/i /Evaluated/i /Evaluated/i 0 0.01 ENDF/B-VI	TO COMPARE TO S THE FOLLOWING 10.0 1 1.1 99992: 023602 INPUT 6 EXAMPLE AS AUTO READ THE DO LINES ARE RECOMPARE 10.0 ENDFB6/PHOTON ENDFB5/PHOTON 1	O OF 1/ HE PHOT NG 11 I 0.0 0 3522 BOVE, E ATA FRO QUIRED. 0.0 .IN .IN	1.1, OR ABOUT DELECTRIC CRO NPUT LINES AR 10.0 -2 (TERMIN (MULTIP (TERMIN XCEPT THAT DI M A FILE TREE	O.9. SS SECTION FOR A E REQUIRED. 3 ONATES REQUEST LICATION OF 1.0 ATES EQUIVALENCE FFERENT FILENAME STRUCTURE. THE	2 1 ST) INFERRED) E LIST) ES WILL FOLLOWING	Complot
DEFINE A IN ORDER MATERIAL 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-VI ENDF/B-V 023522 023522 EXAMPLE THE SAME BE USED 11 INPUT 0.0 /Evaluated/i /Evaluated/i /Evaluated/i /Evaluated/i ENDF/B-VI ENDF/B-VI ENDF/B-VI ENDF/B-VI	TO COMPARE TO S THE FOLLOWING 10.0 1 1.1 999923 023602 INPUT 6 EXAMPLE AS AN TO READ THE DO LINES ARE RECOMPARE 10.0 ENDFB6/PHOTON 1 1.1	O OF 1/ HE PHOT NG 11 I 0.0 0 3522 BOVE, E ATA FRO QUIRED. 0.1 0 0	1.1, OR ABOUT DELECTRIC CRO NPUT LINES AR 10.0 -2 (TERMIN (MULTIP (TERMIN XCEPT THAT DI M A FILE TREE	SS SECTION FOR A E REQUIRED. 3 3 4 ATES REQUEST LICATION OF 1.0 ATES EQUIVALENCE FFERENT FILENAME STRUCTURE. THE 3 3	2 1 ST) INFERRED) E LIST) ES WILL FOLLOWING	Complot
DEFINE A IN ORDER MATERIAL: 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-VI ENDF/B-V 023522 023522 EXAMPLE: THE SAME BE USED: 11 INPUT 0.0 /Evaluated/i /Evaluated/i /Evaluated/i 0 0.01 ENDF/B-VI	TO COMPARE TO S THE FOLLOWING 10.0 1 1.1 99992: 023602 INPUT 6 EXAMPLE AS AUTO READ THE DO LINES ARE RECOMPARE 10.0 ENDFB6/PHOTON ENDFB5/PHOTON 1	O OF 1/ HE PHOT NG 11 I 0.0 0 3522 BOVE, E ATA FRO QUIRED. 0.1 0 0	1.1, OR ABOUT DELECTRIC CRO NPUT LINES AR 10.0 -2 (TERMIN (MULTIP (TERMIN XCEPT THAT DI M A FILE TREE 10.0 -2	O.9. SS SECTION FOR A E REQUIRED. 3 3 ATES REQUEST LI: LICATION OF 1.0 ATES EQUIVALENCE FFERENT FILENAME STRUCTURE. THE 3 3	2 1 ST) INFERRED) E LIST) ES WILL FOLLOWING 2 1	Complot
DEFINE A IN ORDER MATERIAL: 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-VI ENDF/B-V 023522 EXAMPLE THE SAME BE USED 11 INPUT 0.0 /Evaluated/1/evaluated/1	TO COMPARE TO S THE FOLLOWING 10.0 1 1.1 999923 023602 INPUT 6 EXAMPLE AS AN TO READ THE DO LINES ARE RECOMPARE 10.0 ENDFB6/PHOTON 1 1.1	O OF 1/ HE PHOT NG 11 I 0.0 0 3522 BOVE, E ATA FRO QUIRED. 0.1 0 0	1.1, OR ABOUT DELECTRIC CRO NPUT LINES AR 10.0 -2 (TERMIN (MULTIP (TERMIN XCEPT THAT DI M A FILE TREE 10.0 -2 (TERMIN	O.9. SS SECTION FOR A E REQUIRED. 3 3 ONATES REQUEST LICATION OF 1.0 ATES EQUIVALENCE FFERENT FILENAME STRUCTURE. THE 3 3 ONATES REQUEST LICATES A CONTROL OF 1.0	2 1 ST) INFERRED) E LIST) ES WILL FOLLOWING 2 1	Complot
DEFINE A IN ORDER MATERIAL 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-VI ENDF/B-V 023522 023522 EXAMPLE THE SAME BE USED 11 INPUT 0.0 /Evaluated/i /Evaluated/i /Evaluated/i /Evaluated/i ENDF/B-VI ENDF/B-VI ENDF/B-VI ENDF/B-VI	TO COMPARE THE STHE FOLLOWING 10.0 1 1.1 99992: 10.0 ENDFB6/PHOTON 1.1 1.1 99992:	O OF 1/ HE PHOT NG 11 I 0.0 0 3522 BOVE, E ATA FRO QUIRED. 0.1 0 0	1.1, OR ABOUT DELECTRIC CRO NPUT LINES AR 10.0 -2 (TERMIN (MULTIP (TERMIN XCEPT THAT DI M A FILE TREE 10.0 -2 (TERMIN (MULTIP	O.9. SS SECTION FOR A E REQUIRED. 3 ORATES REQUEST LICATION OF 1.0 ATES EQUIVALENCE THE STRUCTURE. THE STRUCTURE THE STRUCTUR	2 1 ST) INFERRED) E LIST) ES WILL FOLLOWING 2 1 ST) INFERRED)	Complot
DEFINE A IN ORDER MATERIAL: 0.0 ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-VI ENDF/B-V 023522 EXAMPLE THE SAME BE USED 11 INPUT 0.0 /Evaluated/1/evaluated/1	TO COMPARE THE STHE FOLLOWING 10.0 1 1.1 99992: 10.0 ENDFB6/PHOTON 1.1 1.1 99992:	O OF 1/ HE PHOT NG 11 I 0.0 0 3522 BOVE, E ATA FRO QUIRED. 0.1 0 0	1.1, OR ABOUT DELECTRIC CRO NPUT LINES AR 10.0 -2 (TERMIN (MULTIP (TERMIN XCEPT THAT DI M A FILE TREE 10.0 -2 (TERMIN (MULTIP	O.9. SS SECTION FOR A E REQUIRED. 3 3 ONATES REQUEST LICATION OF 1.0 ATES EQUIVALENCE FFERENT FILENAME STRUCTURE. THE 3 3 ONATES REQUEST LICATES A CONTROL OF 1.0	2 1 ST) INFERRED) E LIST) ES WILL FOLLOWING 2 1 ST) INFERRED)	Complot

THE OUTPUT FOR ALL OF THE ABOVE EXAMPLES ARE ORIENTED WITH X	Complot
THE CUITOUT FOR ALL OF THE ABOVE EXAMPLES ARE ORIENTED WITH Y	Complot
THE COTTOT TOK MEE OF THE ABOVE EMPEREDO AND OKTENIED WITH A	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
IND 12010 ON THE LINGT INTOL BINE.	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 1 0 -2 3 1	Complot
0.01 1.1	Complot
ENDF/B-VI	Complot
ENDF/B-V	Complot
023522 999923522 0	Complot
(TERMINATES REQUEST LIST)	Complot
023522 023602 (MULTIPLICATION OF 1.0 INFERRED	-
(TERMINATES EQUIVALENCE LIST)	Complot
(IDVATINATES EXOTAMBENCE DIST)	_
	Complot
==== PLOTTER/GRAPHICS TERMINAL INTERFACE ====================	-
	Complot
NON-INTERACTIVE	Complot
	-
THIS PROGRAM USES A SIMPLE CALCOMP LIKE INTERFACE INVOLVING	Complot
ONLY 5 SUBROUTINES,	Complot
	Complot
STARPLOT - INITIALIZE PLOTTER	Complot
NEXTPLOT - CLEAR SCREEN FOR NEXT PLOT	Complot
ENDPLOTS - TERMINATE PLOTTING	Complot
	Complot
PLOT(X,Y,IPEN) - DRAW OR MOVE FROM LAST LOCATION TO (X,Y)	-
END OF CURRENT PLOT OR END OF PLOTTING.	Complot
	-
IPEN = 2 - DRAW = 3 - MOVE	Complot
= 2 - MOAE	Complot
DEN (TREN)	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
X,Y = DEFINE THE CORNERS OF THE BOX	Complot
IFILL = COLOR TO FILL BOX WITH	Complot
IBORDER = COLOR OF BORDER OF BOX	Complot
	Complot
INTERACTIVE	Complot
	_
THIS PROGRAM INCLUDES AN INTERACTIVE INTERFACE FOR USE WITH A	Complot
MOUSE. THE INTERFACE INVOLVES 2 SUBROUTINE,	Complot
	Complot
MOUSE. THE INTERFACE INVOLVES 2 SUBROUTINE,	
	Complot
INTERACT (MYACTION) - WHETHER OR NOT INTERACTION	
INTERACT (MYACTION) - WHETHER OR NOT INTERACTION MYACTION = 0 - NO (RETURNED BY INTERACT)	Complot
INTERACT (MYACTION) - WHETHER OR NOT INTERACTION	Complot
INTERACT (MYACTION) - WHETHER OR NOT INTERACTION MYACTION = 0 - NO (RETURNED BY INTERACT) = 1 - YES (RETURNED BY INTERACT)	Complot Complot
INTERACT (MYACTION) - WHETHER OR NOT INTERACTION MYACTION = 0 - NO (RETURNED BY INTERACT) = 1 - YES (RETURNED BY INTERACT) MOUSEY (IWAY, XI, YI, IWAY1, IWAY2) - READ POSITION OF MOUSE	Complot
INTERACT (MYACTION) - WHETHER OR NOT INTERACTION MYACTION = 0 - NO (RETURNED BY INTERACT) = 1 - YES (RETURNED BY INTERACT)	Complot Complot
INTERACT (MYACTION) - WHETHER OR NOT INTERACTION MYACTION = 0 - NO (RETURNED BY INTERACT) = 1 - YES (RETURNED BY INTERACT) MOUSEY (IWAY, XI, YI, IWAY1, IWAY2) - READ POSITION OF MOUSE	Complot Complot Complot
INTERACT (MYACTION) - WHETHER OR NOT INTERACTION MYACTION = 0 - NO (RETURNED BY INTERACT) = 1 - YES (RETURNED BY INTERACT) MOUSEY (IWAY, XI, YI, IWAY1, IWAY2) - READ POSITION OF MOUSE IWAY = 0 - NO INPUT	Complot Complot Complot Complot
INTERACT (MYACTION) - WHETHER OR NOT INTERACTION MYACTION = 0 - NO (RETURNED BY INTERACT) = 1 - YES (RETURNED BY INTERACT) MOUSEY (IWAY, XI, YI, IWAY1, IWAY2) - READ POSITION OF MOUSE IWAY = 0 - NO INPUT = 1 - LEFT BUTTON	Complot Complot Complot Complot
INTERACT (MYACTION) MYACTION = 0 - NO (RETURNED BY INTERACT) = 1 - YES (RETURNED BY INTERACT) MOUSEY (IWAY, XI, YI, IWAY1, IWAY2) - READ POSITION OF MOUSE IWAY = 0 - NO INPUT = 1 - LEFT BUTTON = 2 - MIDDLE BUTTON	Complot Complot Complot Complot Complot
INTERACT (MYACTION) MYACTION OUSEY (IWAY, XI, YI, IWAY1, IWAY2) IWAY OUSEY (IWAY, XI, YI, IWAY1, IWAY2) IWAY OUSEY OUSE OUSEY	Complot Complot Complot Complot Complot Complot Complot Complot Complot
INTERACT (MYACTION) MYACTION OUSEY (IWAY, XI, YI, IWAY1, IWAY2) IWAY OUSEY (IWAY, XI, YI, IWAY1, IWAY2) IWAY OUSEY (IWAY, XI, YI, IWAY1, IWAY2) OUSEY OUSE OUSEY OUSEY OUSEY OUSEY OUSEY OUSE OUSEY OUSEY OUSEY	Complot Complot Complot Complot Complot Complot Complot Complot Complot
INTERACT (MYACTION) MYACTION OUSEY (IWAY, XI, YI, IWAY1, IWAY2) IWAY OUSEY (IWAY, XI, YI, IWAY1, IWAY2) IWAY OUSEY (IWAY, XI, YI, IWAY1, IWAY2) OUSEY OUSE OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSE OUSEY OUSE OUSEY O	Complot
INTERACT (MYACTION) MYACTION OUSEY (IWAY,XI,YI,IWAY1,IWAY2) IWAY OUSEY (IWAY,XI,YI,IWAY1,IWAY2) IWAY OUSEY (IWAY,XI,YI,IWAY1,IWAY2) OUSEY OUSE OUSEY OUSE OUSEY OUSE OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSE OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSE OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY O	Complot
INTERACT (MYACTION) MYACTION OUSEY(IWAY,XI,YI,IWAY1,IWAY2) IWAY OUSEY(IWAY,XI,YI,IWAY1,IWAY2) IWAY OUSEY(IWAY,XI,YI,IWAY1,IWAY2) OUSEY OUSE OUSEY OUSE OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSE OUSEY OUSE OUSEY OUSE	Complot
INTERACT (MYACTION) MYACTION OUSEY (IWAY, XI, YI, IWAY1, IWAY2) IWAY OUSEY (RETURNED BY INTERACT) READ POSITION OF MOUSE IWAY OUSEY (RETURNED BY INTERACT) OUSEY OUSEY (RETURNED BY INTERACT) IWAY OUSEY (RETURNED BY INTERACT) OUSEY OUSEY OUSEY (RETURNED BY INTERACT) OUSEY OUSEY OUSEY (RETURNED BY INTERACT) OUSEY OUSEY OUSEY (RETURNED BY INTERACT) OU	Complot
INTERACT (MYACTION) MYACTION OUSEY (IWAY,XI,YI,IWAY1,IWAY2) IWAY OUSEY (IWAY,XI,YI,IWAY1,IWAY2) IWAY OUSEY (IWAY,XI,YI,IWAY1,IWAY2) OUSEY IWAY OUSEY (IWAY,XI,YI,IWAY1,IWAY2) OUSEY IWAY OUSEY IWAY OUSEY IWAY OUSEY IWAY OUSEY IWAY OUSEY OUSEY IWAY OUSEY OUSEY IWAY OUSEY IWAY OUSEY OUSE OUSEY OU	Complot
INTERACT (MYACTION) MYACTION OUSEY (IWAY,XI,YI,IWAY1,IWAY2) IWAY OUSEY (IWAY,XI,YI,IWAY1,IWAY2) IWAY OUSEY (IWAY,XI,YI,IWAY1,IWAY2) IWAY OUSEY (IWAY,XI,YI,IWAY1,IWAY2) IWAY OUSEY (IWAY,XI,YI,IWAY1,IWAY2) OUSEY OUSE OUSEY OUSE OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSEY OUSE OUSEY	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 Complot END SUBROUTINE MOUSEY(IWAY,XI,YI,IWAY1,IWAY2) Complot IWAY=4 Complot xI = 0.0Complot YI=0.0 Complot Complot RETURN 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 Complot NEXT PLOT. A CALL TO ACTION IS OF THE FORM, Complot Complot CALL ACTION (KACTV, XACT1, XACT2) Complot Complot Complot = 0 - NO INTERACTIVE INPUT KACTV = 1 - INTERACTIVE INPUT Complot XACT1 = LOWER ENERGY LIMIT Complot = UPPER ENERGY LIMIT Complot XACT2 Complot IF THERE IS NO INTERACTIVE INPUT THE PROGRAM WILL PROCEED TO THE Complot NEXT PLOT REQUESTED BY NON-INTERACTIVE INPUT. Complot 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 Complot YOU CAN REPLACE SUBROUTINE ACTION FOLLOWING THE ABOVE CONVENTIONS 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 Complot Complot BLACK AND WHITE PLOTS Complot 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 Complot Complot CHARACTER SET Complot Complot THIS PROGRAM USES COMPUTER AND PLOTTER DEVICE INDEPENDENT SOFTWARE Complot CHARACTERS. THIS PROGRAM COMES WITH A FILE THAT DEFINES THE PEN Complot STROKES REQUIRED TO DRAW ALL CHARACTERS ON AN IBM KEYBOARD (UPPER Complot AND LOWER CASE CHARACTERS, NUMBERS, ETC.) PLUS AN ALTERNATE SET OF Complot ALL UPPER AND LOWER CASE GREEK CHARACTERS AND ADDITIONAL SPECIAL SYMBOLS. 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 MODIFY THIS TABLE. Complot Complot CONTROL CHARACTERS Complot Complot IN THE SOFTWARE CHARACTER TABLE ALL CHARACTERS TO BE PLOTTED WILL HAVE PEN POSITION = 2 (DRAW) OR = 3 (MOVE). IN ADDITION THE TABLE Complot CURRENTLY CONTAINS 4 CONTROL CHARACTERS, Complot Complot PEN POSITION = 0Complot 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 SHIFTING 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 PEN POSITION =-1 Complot 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 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 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 Complot CONTROL CHARACTER WILL ONLY EFFECT THE NEXT 1 PLOTTED CHARACTER. 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 ------ 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 ${\tt MILLIMETERS}$, ${\tt WHATEVER})$ OF THE PLOTTER BEING USED AND OUTPUT. Complot