PROGRAM	COMPI	JOT		COMPLO COMPLO
		==		COMPLO
VERSION	83-1	(FEBRUARY, 1983)		COMPLO
		(MAY, 1983)		COMPLO
VERSION	83-3	(DECEMBER, 1983)	*MAJOR MODIFICATION.	COMPLO
			*ADDED SELECTION OF PLOTS BY MAT OR ZA/MT/ENERGY RANGE (EV).	COMPLO COMPLO
			*ADDED VARIABLE AXIS UNITS (PROGRAM	
			CONTROLLEDX=MILLI-EV, EV, KEV, MEVY=MILLI-BARNS, BARNS).	COMPLO
VERSION	84-1	(APRIL, 1984)	*ADDED SELECTION BY REACTION/ENERGY	COMPLO
			RANGE.	COMPLO
			*ADDED IDENTIFY DATA POINTS OPTION	
			(SMALL BOX DRAWN AROUND EACH CROSS	
			SECTION AND RATIO POINT).	COMPLO
			*IMPROVED NON-IBM GRAPHICS INTERFACE	
			(ALL CHARACTER POSITIONING NOW	COMPLO
			BASED ON CHARACTER, NOT RASTER,	COMPLO
TEDCTON	05_1	(APRIL, 1985)	SIZE). *SPECIAL I/O ROUTINES TO GUARANTEE	COMPLO
A TUN TON	33-I	(PERIO, 1900)	ACCURACY OF ENERGY.	COMPLO
			*DOUBLE PRECISION TREATMENT OF	COMPLO
			ENERGY (REQUIRED FOR NARROW	COMPLO
			RESONANCES).	COMPLO
			*ADDED (ZA,MT) EQUIVALENCE OPTION.	COMPLO
			*ADDED SMALL PLOT OPTION.	COMPLO
VERSION	85-2	(AUGUST, 1985)	*FORTRAN-77/H VERSION	COMPLO
VERSION	86-1	(JANUARY, 1986)	*ENERGY DEPENDENT SCATTERING RADIUS	COMPLO
				COMPLO
			(REQUIRED FOR NARROW ENERGY RANGES)	COMPL
VERSION	88-1	(JULY 1988)	*MAJOR REVISION TO MAKE CODE EASILY	
			INTERFACEABLE TO ALMOST ANY PLOTTER	
			*WARNINGINPUT PARAMETERS FROM BEEN	
			CHANGED (SEE, DESCRIPTION BELOW)	COMPLO
			*COMPUTER INDEPENDENT SOFTWARE	COMPLO
			CHARACTERS.	COMPLO
			*COLOR PLOTS.	COMPLO
			*MT NUMBER DEFINITIONS FROM DATA FILE READ BY PROGRAM	COMPLO
			*FORTRAN-77 REQUIRED (FORTRAN-H NO	
			SUPPORTED BY THIS PROGRAM).	COMPLO
			*OPTIONINTERNALLY DEFINE ALL I/O	
			FILE NAMES (SEE, SUBROUTINE FILEIO	
			FOR DETAILS).	COMPLO
			*IMPROVED BASED ON USER COMMENTS.	COMPLO
VERSION	88-2	(OCTOBER 1988)	*IMPROVED BASED ON USER COMMENTS.	COMPLO
		,	*ADDED LIVERMORE CIVIC COMPILER	COMPLO
			CONVENTIONS.	COMPLO
			*UPDATED TO USE NEW PROGRAM CONVERT	COMPLO
			KEYWORDS.	COMPLO
	89-1	(JANUARY 1989)	*PSYCHOANALYZED BY PROGRAM FREUD TO	COMPLO
VERSION	JJ ±		INSURE PROGRAM WILL NOT DO ANYTHING	COMPL
VERSION	JJ 1			
VERSION	JJ 1		CRAZY.	
VERSION	JJ 1		*FORTRAN-77/FORTRAN-H COMPATIBLE	COMPLO
VERSION	JJ 1		*FORTRAN-77/FORTRAN-H COMPATIBLE *SPECIAL ENDF/B MATERIAL DEFINITIONS	COMPLO
VERSION	33 <u>1</u>		*FORTRAN-77/FORTRAN-H COMPATIBLE *SPECIAL ENDF/B MATERIAL DEFINITIONS (ZA.LT.1000) FROM DATA FILE READ	COMPLO COMPLO
		(177) (1990)	*FORTRAN-77/FORTRAN-H COMPATIBLE *SPECIAL ENDF/B MATERIAL DEFINITIONS (ZA.LT.1000) FROM DATA FILE READ BY PROGRAM.	COMPLO COMPLO COMPLO
		(MARCH 1989)	*FORTRAN-77/FORTRAN-H COMPATIBLE *SPECIAL ENDF/B MATERIAL DEFINITIONS (ZA.LT.1000) FROM DATA FILE READ BY PROGRAM. *ADDED ENDF/B-V AND VI MT	COMPLO COMPLO COMPLO COMPLO
		(MARCH 1989)	*FORTRAN-77/FORTRAN-H COMPATIBLE *SPECIAL ENDF/B MATERIAL DEFINITIONS (ZA.LT.1000) FROM DATA FILE READ BY PROGRAM. *ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE	COMPLO COMPLO COMPLO COMPLO COMPLO
		(MARCH 1989)	*FORTRAN-77/FORTRAN-H COMPATIBLE *SPECIAL ENDF/B MATERIAL DEFINITIONS (ZA.LT.1000) FROM DATA FILE READ BY PROGRAM. *ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1,	COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO
		(MARCH 1989)	*FORTRAN-77/FORTRAN-H COMPATIBLE *SPECIAL ENDF/B MATERIAL DEFINITIONS (ZA.LT.1000) FROM DATA FILE READ BY PROGRAM. *ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1, MT=451 AND USE AS PPROPRIATE MT	COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO
		(MARCH 1989)	*FORTRAN-77/FORTRAN-H COMPATIBLE *SPECIAL ENDF/B MATERIAL DEFINITIONS (ZA.LT.1000) FROM DATA FILE READ BY PROGRAM. *ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1, MT=451 AND USE AS PPROPRIATE MT DEFINITIONS. IF NO MF=1, MT=451	COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO
		(MARCH 1989)	*FORTRAN-77/FORTRAN-H COMPATIBLE *SPECIAL ENDF/B MATERIAL DEFINITIONS (ZA.LT.1000) FROM DATA FILE READ BY PROGRAM. *ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1, MT=451 AND USE AS PPROPRIATE MT DEFINITIONS. IF NO MF=1, MT=451 PROGRAM WILL USE ENDF/B-VI	COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO
VERSION	89-2		*FORTRAN-77/FORTRAN-H COMPATIBLE *SPECIAL ENDF/B MATERIAL DEFINITIONS (ZA.LT.1000) FROM DATA FILE READ BY PROGRAM. *ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1, MT=451 AND USE AS PPROPRIATE MT DEFINITIONS. IF NO MF=1, MT=451 PROGRAM WILL USE ENDF/B-VI MT DEFINITIONS.	COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO
VERSION	89-2	(MARCH 1989) (AUGUST 1990)	*FORTRAN-77/FORTRAN-H COMPATIBLE *SPECIAL ENDF/B MATERIAL DEFINITIONS (ZA.LT.1000) FROM DATA FILE READ BY PROGRAM. *ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1, MT=451 AND USE AS PPROPRIATE MT DEFINITIONS. IF NO MF=1, MT=451 PROGRAM WILL USE ENDF/B-VI MT DEFINITIONS. *A NEW PROGRAM	COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO
VERSION	89-2		*FORTRAN-77/FORTRAN-H COMPATIBLE *SPECIAL ENDF/B MATERIAL DEFINITIONS (ZA.LT.1000) FROM DATA FILE READ BY PROGRAM. *ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1, MT=451 AND USE AS PPROPRIATE MT DEFINITIONS. IF NO MF=1, MT=451 PROGRAM WILL USE ENDF/B-VI MT DEFINITIONS. *A NEW PROGRAM *ADDED INTERACTIVE MOUSE INPUT	COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO
VERSION	89-2		*FORTRAN-77/FORTRAN-H COMPATIBLE *SPECIAL ENDF/B MATERIAL DEFINITIONS (ZA.LT.1000) FROM DATA FILE READ BY PROGRAM. *ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1, MT=451 AND USE AS PPROPRIATE MT DEFINITIONS. IF NO MF=1, MT=451 PROGRAM WILL USE ENDF/B-VI MT DEFINITIONS. *A NEW PROGRAM	COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO COMPLO

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		*ADDED MAXIMUM RATIO RANGE WHEN PLOTTING RATIOS.	COMPLOT
		*ADDED GRID TYPES	COMPLOT
		*ADDED VARIABLE LINE THICKNESS	COMPLOT
		*WARNINGINPUT PARAMETER FORMAT	COMPLOT
		HAS BEEN CHANGEDSEE DESCRIPTION	
TERCTON 02 1	(JANUARY 1992)	BELOW. *ADDED INCIDENT CHARGED PARTICLES	COMPLOT
VERSION 92-1	(UANUARI 1992)	(IDENTIFIED IN PLOT TITLES)	COMPLOT
		*ADDED COMPLETELY COMPATIBLE I/O	COMPLOT
		FOR READING FLOATING POINT NUMBERS.	
VERSION 92-2	(MAY 1992)	*CORRECTED DESCRIPTION OF INPUT	COMPLOT
		PARAMETERS AND EXAMPLE PROBLEMS.	COMPLOT
		*ADDED VARIABLE CHARACTER SIZE INPUT	
VERSION 93-1	(MARCH 1993)		COMPLOT
		OUTPUT USING THE LAHEY COMPILER *ADDED NU-BAR (TOTAL, DELAYED,	COMPLOT
		PROMPT).	COMPLOT
VERSION 94-1	(JANUARY 1994)		COMPLOT
		TO ALLOW ACCESS TO FILE STRUCTURES	COMPLOT
		(WARNING - INPUT PARAMETER FORMAT	COMPLOT
		HAS BEEN CHANGED)	COMPLOT
		*CLOSE ALL FILES BEFORE TERMINATING	
VEDCTON OF 1	(MARCH 1995)	(SEE, SUBROUTINE ENDIT) *CORRECTED CROSS SECTION	COMPLOT
VERSION 95-1	(MARCH 1995)	MULTIPLIER FOR EQUIVALENCES	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	COMPLOT
		*ALL DOUBLE PRECISION	COMPLOT
		*UNIFORM TREATMENT OF ENDF/B I/O *IMPROVED OUTPUT PRECISION	COMPLOT
		*IMPROVED COTPOT PRECISION *DEFINED SCRATCH FILE NAMES	COMPLOT
		*INCREASED PAGE SIZE FROM 24000	COMPLOT
		TO 48000 POINTS	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
		VERSION BASED ON RECENT FORMAT CHANGE	
		*GENERAL IMPROVEMENTS BASED ON	COMPLOT
		USER FEEDBACK	COMPLOT
VERS. 2000-1	(FEBRUARY 2000)	*GENERAL IMPROVEMENTS BASED ON	COMPLOT
		USER FEEDBACK	COMPLOT
VERS. 2002-1	(MAY 2002)	*INPUT PARAMETERS OPTIONAL	COMPLOT
		*CONTROL MINIMUM RATIO RANGE BY INPUT *OPTIONAL BLACK OR WHITE BACKGROUND	COMPLOT
VERS. 2004-1	(SEPT. 2004)	*ADDED INCLUDE FOR COMMON	COMPLOT
1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*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
VERS. 2007-1	(.TAN 2007)	REGIONS. *CHECKED AGAINST ALL ENDF/B-VII.	COMPLOT
VIII. 2007-1	(324. 2007)	*INCREASED MAXLOAD TO 600,000 FROM	COMPLOT
		12,000	COMPLOT
VERS. 2009-1	(JAN. 2009)	*IGNORED DIFFERENCES NEAR RESONANCE	COMPLOT
		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).	COMPLOT
		*ONLY plot linearly interpoolable data *Include threshold energy points to	COMPLOT
		show cross sections, but NOT ratios	COMPLOT
		near threshold.	COMPLOT
VERS. 2011-1	(Jan. 2011)	*Increased MT.DAT from 200 to 1,000	COMPLOT
		entries, to accommodate new MTs.	COMPLOT
VERS. 2012-1	(Aug. 2012)	*Increased incident particle list to	COMPLOT

				include photon (ZA = 0).	COMPLOT
				*Added CODENAME *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
VERS.	2015-1	(Jan.	2015)	*Added MF=10 Radionuclide Production	COMPLOT
				which requires longer plot titles.	COMPLOT
				*Restricted character size multiplier	
				to 0.5 to 1.5 to accommodate longer	COMPLOT
				<pre>plot titles. *Replaced ALL 3 way if statements.</pre>	COMPLOT
VERS.	2015-2	(Mar.	2015)	*Corrected tables for X and Y axis	COMPLOT
		•	·	labels = see change search for 2015-2	
VERS.	2015-3	(Oct.	2015)	*Allow multiple LRF=7 regions plus	COMPLOT
				unreslved region - earlier assumed	COMPLOT
WEDG	2017-1	(Mass	2017)	LRF=7 never used unrsesolved. *For MF=2 use MT=151 to define	COMPLOT
VERS.	2017 1	(May	2017)	Unresolved Resonance Region (URR).	COMPLOT
				Ignore NJOY MT=152 and 153.	COMPLOT
				*All floating input parameters changed	
				to character input + IN9 conversion.	
				*Added MF=4 Legendre Coefficient Comparison: f1 through f6	COMPLOT
Vers.	2018-1	(Jan.	2018)	*Doubled in core storage to 1,200,000	COMPLOT
		(00		*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	
				other MF now treated by this code)	COMPLOT
				*Initial Linear X scaling for MF=1 (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	COMPLOT
				parameters, i.e., by COMHARD *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	
				radius to reading FILE2 parameters to define unresolved energy range.	COMPLOT
				*Corrected energy dependent scatter	COMPLOT
				for all resonance types (see, above	COMPLOT
				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
				if not, print WARNING messages.	COMPLOT
Vers.	2020-1	(Dec.	2020)	*Corrected Treatment of Threshold	COMPLOT
				cross sections, to include threshold	
				(Previously code only used positive	COMPLOT
				cross sections = skipped threshold) *Added isomeric state (m or n) to ZA	COMPLOT
				interpretation.	COMPLOT
				*Increased MAXIZA to 100,000 from	COMPLOT
				10,000 to allow searching longer	COMPLOT
				ENDF data fils with many MATs =	COMPLOT
Vers	2021-1	(.Ton	20211	NOT RECOMMENDED!!!! *SHOW ALL = mouse click above the	COMPLOT
vers.	2021-1	(Jail.	2021)	*Show ALL = mouse click above the plotting area.	COMPLOT
				*Updated for FORTRAN 2018	COMPLOT
					COMPLOT
2020-	1 Acknow	wledgm	ent		COMPLOT
T +ha	nk .Toon		=== tophe Sub	let (NDS TAFA Vienna Austria) for	COMPLOT
ı tna	nk Jean.	CHILIS	copile sub	let (NDS, IAEA, Vienna, Austria) for	COMPLOT

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	ov (NDS, IAEA) for overseeing the entire PREPRO project	
-	• • • •	COMPLOT
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OWNED, MAIN	TAINED AND DISTRIBUTED BY	COMPLOT
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THE NUCLEAR	R DATA SECTION	COMPLOT
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Livermore,	-	COMPLOT
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		COMPLOT
AUTHORS MES		COMPLOT
		COMPLOT
		COMPLOT
	IMPROVEMENTS. PLEASE READ ALL OF THESE COMMENTS BEFORE,	
PARTICULARI		COMPLOT
*** WAS DOES	SENT TIME WE ARE ATTEMPTING TO DEVELOP A SET OF COMPUTER	COMPLOT
		COMPLOT
	VARIETY OF COMPUTERS. IN ORDER TO ASSIST IN THIS PROJECT	
		COMPLOT
	AGNOSTICS, OPERATING PROBLEMS OR SUGGESTIONS ON HOW TO	
	S PROGRAM. HOPEFULLY, IN THIS WAY FUTURE VERSIONS OF	
	•	COMPLOT
COMPUTER.		COMPLOT
		COMPLOT
PURPOSE		COMPLOT
		COMPLOT
COMPARE END	F/B FORMATTED DATA FROM TWO SEPARATE INPUT TAPES.	COMPLOT COMPLOT
COMPARE END REACTIONS A	OF/B FORMATTED DATA FROM TWO SEPARATE INPUT TAPES. WE CONSIDERED TO BE COMPARABLE IF THEY HAVE THE SAME	COMPLOT COMPLOT
COMPARE END REACTIONS A	OF/B FORMATTED DATA FROM TWO SEPARATE INPUT TAPES. LIVE CONSIDERED TO BE COMPARABLE IF THEY HAVE THE SAME RESULTS ARE PRESENTED IN GRAPHICAL FORM.	COMPLOT COMPLOT COMPLOT
COMPARE END REACTIONS A (ZA,MF,MT).	OF/B FORMATTED DATA FROM TWO SEPARATE INPUT TAPES. ARE CONSIDERED TO BE COMPARABLE IF THEY HAVE THE SAME RESULTS ARE PRESENTED IN GRAPHICAL FORM.	COMPLOT COMPLOT COMPLOT COMPLOT
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COMPARE END REACTIONS A (ZA,MF,MT). IN THE FOLI TAPEWILL	OF/B FORMATTED DATA FROM TWO SEPARATE INPUT TAPES. ARE CONSIDERED TO BE COMPARABLE IF THEY HAVE THE SAME RESULTS ARE PRESENTED IN GRAPHICAL FORM. OWING FOR SIMPLICITY THE ENDF/B TERMINOLOGYENDF/B BE USED. IN FACT THE ACTUAL MEDIUM MAY BE TAPE, CARDS, TOTHER MEDIUM.	COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT
COMPARE END REACTIONS A (ZA,MF,MT). IN THE FOLI TAPEWILL DISK OR ANY	OF/B FORMATTED DATA FROM TWO SEPARATE INPUT TAPES. ARE CONSIDERED TO BE COMPARABLE IF THEY HAVE THE SAME RESULTS ARE PRESENTED IN GRAPHICAL FORM. ACCOUNTS FOR SIMPLICITY THE ENDF/B TERMINOLOGYENDF/B BE USED. IN FACT THE ACTUAL MEDIUM MAY BE TAPE, CARDS, TOTHER MEDIUM.	COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT
COMPARE END REACTIONS A (ZA,MF,MT). IN THE FOLI TAPEWILL DISK OR ANY ON WHAT COM	OF/B FORMATTED DATA FROM TWO SEPARATE INPUT TAPES. ARE CONSIDERED TO BE COMPARABLE IF THEY HAVE THE SAME RESULTS ARE PRESENTED IN GRAPHICAL FORM. ACCOUNTING FOR SIMPLICITY THE ENDF/B TERMINOLOGYENDF/B BE USED. IN FACT THE ACTUAL MEDIUM MAY BE TAPE, CARDS, OTHER MEDIUM. APPUTERS WILL THE PROGRAM RUN	COMPLOT
COMPARE END REACTIONS A (ZA,MF,MT). IN THE FOLI TAPEWILL DISK OR ANY ON WHAT COM	OF/B FORMATTED DATA FROM TWO SEPARATE INPUT TAPES. ARE CONSIDERED TO BE COMPARABLE IF THEY HAVE THE SAME RESULTS ARE PRESENTED IN GRAPHICAL FORM. ACOUNTING FOR SIMPLICITY THE ENDF/B TERMINOLOGYENDF/B BE USED. IN FACT THE ACTUAL MEDIUM MAY BE TAPE, CARDS, OTHER MEDIUM. APPUTERS WILL THE PROGRAM RUN	COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT
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REACTIONS A (ZA,MF,MT). IN THE FOLI TAPEWILL DISK OR ANY ON WHAT COM THE PROGRAM CRAY AND IE	OF/B FORMATTED DATA FROM TWO SEPARATE INPUT TAPES. ARE CONSIDERED TO BE COMPARABLE IF THEY HAVE THE SAME RESULTS ARE PRESENTED IN GRAPHICAL FORM. ACCOUNTING FOR SIMPLICITY THE ENDF/B TERMINOLOGYENDF/B BE USED. IN FACT THE ACTUAL MEDIUM MAY BE TAPE, CARDS, OTHER MEDIUM. APPLICATION OF THE PROGRAM RUN AT HAS BEEN IMPLEMENTED ON A VARIETY OF COMPUTERS FROM MAINFRAME TO SUN WORKSTATIONS TO AN IBM-AT PC. THE SMALL ENOUGH TO RUN ON VIRTUALLY ANY COMPUTER.	COMPLOT
COMPARE END REACTIONS A (ZA,MF,MT). IN THE FOLI TAPEWILL DISK OR ANY ON WHAT COM THE PROGRAM CRAY AND IE PROGRAM IS	OF/B FORMATTED DATA FROM TWO SEPARATE INPUT TAPES. ARE CONSIDERED TO BE COMPARABLE IF THEY HAVE THE SAME RESULTS ARE PRESENTED IN GRAPHICAL FORM. COWING FOR SIMPLICITY THE ENDF/B TERMINOLOGYENDF/B BE USED. IN FACT THE ACTUAL MEDIUM MAY BE TAPE, CARDS, COTHER MEDIUM. MEDITERS WILL THE PROGRAM RUN MEDITERS WILL THE PROGRAM RUN MEDITERS WILL THE PROGRAM FOR A VARIETY OF COMPUTERS FROM MAINFRAME TO SUN WORKSTATIONS TO AN IBM-AT PC. THE SMALL ENOUGH TO RUN ON VIRTUALLY ANY COMPUTER.	COMPLOT
COMPARE END REACTIONS A (ZA,MF,MT). IN THE FOLI TAPEWILL DISK OR ANY ON WHAT COM THE PROGRAM CRAY AND IE PROGRAM IS THE PROGRAM	OF/B FORMATTED DATA FROM TWO SEPARATE INPUT TAPES. ARE CONSIDERED TO BE COMPARABLE IF THEY HAVE THE SAME RESULTS ARE PRESENTED IN GRAPHICAL FORM. COWING FOR SIMPLICITY THE ENDF/B TERMINOLOGYENDF/B BE USED. IN FACT THE ACTUAL MEDIUM MAY BE TAPE, CARDS, OTHER MEDIUM. SEPARATE WILL THE PROGRAM RUN HAS BEEN IMPLEMENTED ON A VARIETY OF COMPUTERS FROM MAINFRAME TO SUN WORKSTATIONS TO AN IBM-AT PC. THE SMALL ENOUGH TO RUN ON VIRTUALLY ANY COMPUTER.	COMPLOT

CONVENTIONS THIS PROGRAM CAN BE EASILY INTERFACED TO VIRTUALLY	COMPLOT
ANY PLOTTER.	COMPLOT
FOR SPECIAL CONSIDERATIONS SEE THE SECTIONS BELOW ON,	COMPLOT
(1) COMPUTER DEPENDENT CODING	COMPLOT
(2) PLOTTER/GRAPHICS TERMINAL INTERFACE	COMPLOT
ODA DUTGO TAMBED BAGE	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 THE PROGRAM SHOULD BE SIMPLE TO INTERFACE TO VIRTUALLY ANY PLOTTE	COMPLOT
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
	=COMPLOT
PLOTTER DIMENSIONS ARE IN INCHES - NOT CM, MM, OR CUBITS. THIS IS DONE FOR HISTORICAL REASONS AND HOPEFULLY THIS WILL	COMPLOT
NOT INCONVENIENCE ANYONE - IN PRACTICE I HAVE USED EXACTLY THE	COMPLOT
SAME DIMENSION = $X = 0$ to 12.5 and $Y = 0$ to 10 FOR DECADES	COMPLOT
TO PRODUCE BOTH ON-SCREEN AND HARDCOPY POSTSCRIPT PLOTS.	COMPLOT
	COMPLOT
I STRONGLY SUGGEST THAT YOU NOT CHANGE THESE DIMENSIONS UNLESS YOU MUST = BASED ON THE PLOT SIZE YOU OBTAIN WHEN YOU FIRST RUN	COMPLOT
THIS CODE.	COMPLOT
1115 0052.	COMPLOT
PROGRAM IDENTIFICATION	COMPLOT
	COMPLOT
AS DISTRIBUTED THE FIRST FRAME OF PLOTTED OUTPUT WILL DOCUMENT	COMPLOT
THE PROGRAM NAME, VERSION AND INSTALLATION. THIS INFORMATION IS STORED AS DATA IN THE ARRAY VERSES NEAR THE BEGINNING OF	COMPLOT
SUBROUTINE FRAME1. IF YOU WISH TO CUSTOMIZE THE OUTPUT TO IDENTIF	
YOUR INSTALLATION CHANGE THE LAST TWO LINES OF THE ARRAY (VERSES)	.COMPLOT
	COMPLOT
ENDF/B FORMAT	
	COMPLOT
	COMPLOT COMPLOT
	COMPLOT
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DATA SELECTION

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 SETCOMPLOT EOUAL TO THE LOWER LIMIT (I.E. THIS INDICATE ONLY COMPARE ONE COMPTOT 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

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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.

WHICH REACTIONS WILL BE PLOTTED

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 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 COMPLOT (E.G. IRON AND NICKEL INELASTIC SCATTERING) OR DIFFERENT REACTIONSCOMPLOT 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, COMPLOT 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

COMPLOT 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 SERIES OF PLOTS. EACH PLOT WILL CONTAIN THE STANDARD CROSS SECTIONCOMPLOT AND IN ADDITION THE USER MAY SPECIFY THAT EACH PLOT ALSO CONTAIN THE SECOND CROSS SECTION AND/OR THE RATIO OF THE SECOND CROSS COMPLOT SECTION TO THE FIRST CROSS SECTION. COMPLOT

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

- (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-PLOTSCOMPLOT 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. COMPLOT COMPLOT (2) THE STANDARD CROSS SECTION (I.E. FIRST EVALUATION) AND THE COMPLOT SECOND EVALUATION. THE DATA WILL BE PRESENTED AS ONE PLOT COMPLOT CONTAINING BOTH THE STANDARD AND SECOND CROSS SECTION. THE COMPLOT STANDARD CROSS SECTION WILL BE PRESENTED AS A SOLID LINE AND COMPLOT THE SECOND CROSS SECTION WILL BE PRESENTED AS A DASHED LINE. COMPLOT (3) THE STANDARD CROSS SECTION, SECOND CROSS SECTION AND RATIO OF COMPLOT THE SECOND CROSS SECTION TO THE FIRST CROSS SECTION. THE DATA COMPLOT WILL BE PRESENTED AS THREE SUB-PLOTS PER PLOT WITH THE COMPLOT STANDARD CROSS SECTION IN THE UPPER THIRD OF THE PLOT, THE COMPLOT SECOND CROSS SECTION IN THE MIDDLE THIRD AND THE RATIO OF THE COMPLOT TWO IN THE LOWER THIRD OF THE PLOT (RECOMMENDED OPTION). COMPLOT (4) THE STANDARD CROSS SECTION, SECOND CROSS SECTION AND RATIO OF COMPLOT THE SECOND CROSS SECTION TO THE FIRST CROSS SECTION. THE DATA COMPLOT WILL BE PRESENTED AS TWO SUB-PLOTS PER PLOT WITH THE STANDARD COMPLOT AND SECOND CROSS SECTION ON THE SAME SUB-PLOT IN THE UPPER COMPLOT TWO THIRDS OF THE PLOT AND THE RATIO OF THE TWO IN THE LOWER COMPLOT THIRD OF THE PLOT. THE STANDARD CROSS SECTION WILL BE COMPLOT PRESENTED AS A SOLID LINE AND THE SECOND CROSS SECTION WILL BECOMPLOT PRESENTED AS A DASHED LINE. COMPTOT 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 (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 (4) THE ENERGY LIMITS OF THE RESOLVED AND UNRESOLVED RESONANCE COMPLOT REGION (IF THEY FALL WITHIN THE ENERGY LIMITS OF THE PLOT). COMPLOT COMPLOT RATIO 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 TABULATEDCOMPLOT VALUES. COMPLOT COMPLOT IF THE EVALUATED DATA IS NOT IN EITHER HISTOGRAM OR LINRARLY 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 REASON ONLY LINEARLY INTERPOLABLE OR HISTOGRAM DATA IS ALLOWED COMPLOT AS INPUT TO THIS PROGRAM. COMPTOT LINEAR INTERPOLABLE COMPLOT COMPLOT ALL CROSS SECTIONS MAY BE CONVERTED TO LINEARLY INTERPOLABLE FORM COMPLOT 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

(UCRL-50400, VOL. 17, PART D).

COMPLOT

COMPLOT

TNDIIT	UNITS			COMPLOT
				COMPLOT
	DESCRIPT			COMPLOT
2	INPUT LI			COMPLOT
	MT DEFIN			COMPLOT
10	FIRST EN	DF/B FOR	MATTED EVALUATION (STANDARD).	COMPLOT
11 17	SECOND E	•	RMATTED EVALUATION.	COMPLOT
18			AND LINE TYPES	COMPLOT
				COMPLOT
	r units			COMPLOT
	DESCRIPT	ION		COMPLOT
				COMPLOT
	NORMAL O		PORT.	COMPLOT
16	PLOTTER	UNIT		COMPLOT
SCRAT	CH UNITS			COMPLOT
				COMPLOT
	DESCRIPT			COMPLOT
			FIRST EVALUATION	COMPLOT
13	SCRATCH	UNIT FOR	SECOND EVALUATION	COMPLOT
14	SCRATCH	UNIT FOR	RATIO (ONLY USED IF RATIOS REQUESTED).	COMPLOT
OPTIO	NAL STAND	ARD FILE	NAMES (SEE SUBROUTINE FILIO1 AND FILIO2)	COMPLOT
				COMPLOT
	FILE NAM			COMPLOT
2	COMPLOT.			COMPLOT
	COMPLOT.			COMPLOT
	MT.DAT			COMPLOT
		-	AS READ FROM INPUT) AS READ FROM INPUT)	COMPLOT
	(SCRATCH		AS READ FROM INFOI)	COMPLOT
	PLOT.CHR	-		COMPLOT
16	(PLOTTER	UNIT	USUALLY A DUMMY)	COMPLOT
INPUT	PARAMETE	RS		COMPLOT
				COMPLOT
LINE			DESCRIPTION	COMPLOT
1	1-11		LOWER X LIMIT OF PLOTTER	COMPLOT
		E11.4	UPPER X LIMIT OF PLOTTER	COMPLOT
	23-33		LOWER Y LIMIT OF PLOTTER	COMPLOT
	34-44 45-55		UPPER Y LIMIT OF PLOTTER NUMBER OF PLOTS PER FRAME IN X DIRECTION	COMPLOT
	56-66		NUMBER OF PLOTS PER FRAME IN Y DIRECTION	
	67-70	F4.1	CHARACTER SIZE MULTIPLIER	COMPLOT
			= 0 TO 1 - NORMAL CHARACTER SIZE = OTHERWISE - CHARACTERS SCALED BY THIS	COMPLOT
			FACTOR	COMPLOT
				COMPLOT
			PLOT ORIENTATION IS BASED ON THE UPPER X LIMIT	COMPLOT
			= .GT.0 - X HORIZONTAL/Y VERTICAL	COMPLOT
			= .LT.0 - Y HORIZONTAL/X VERTICAL	COMPLOT
			AFTER TESTING THE UPPER X LIMIT WILL BE SET TO ITS ABSOLUTE VALUE.	
2	1-72	A72		COMPLOT
			(LEAVE BLANK FOR ENDFB.IN1)	COMPLOT
3	1-72	A72	FILENAME FOR SECOND ENDF/B DATA FILE	COMPLOT
4	1-11	I11	(LEAVE BLANK FOR ENDFB.IN2) RETRIEVAL MODE (0=MAT, 1=ZA)	COMPLOT
-	12-22		GRID (SPEED) OPTION.	COMPLOT
			= 0 - TICK MARKS ON BORDER	COMPLOT
			= 1 - SOLID AT COARSE INTERVALS = 2 - DASHED AT COARSE INTERVALS	COMPLOT
			= 3 - SOLID AT COARSE AND FINE INTERVALS	

			= 4 - DASHED AT COARSE AND FINE INTERVALS	COMPLOT
			= 5 - SOLID COARSE/DASHED FINE INTERVALS	
	23-33	I11	SHOULD BORDER BE PLOTTED AROUND EACH PLOT	
				COMPLOT
	34-44	т11		COMPLOT
	01 11			COMPLOT
			=-1 TO -5 - ONLY LINES	COMPLOT
	45-55	I11		COMPLOT
			=-1 - ONLY COMPARISON LISTING. NO PLOTS.	
			= 0 - CROSS SECTION OVER RATIO. = 1 - CROSS SECTION OVER CROSS SECTION.	COMPLOT COMPLOT
			= 2 - TWO CROSS SECTIONS ON SAME PLOT.	COMPLOT
			= 3 - CROSS SECTION OVER CROSS SECTION OVER	
			RATIO.	COMPLOT
			= 4 - TWO CROSS SECTIONS ON SAME PLOT OVER	COMPLOT
				COMPLOT
	56-66	I11		COMPLOT
			= 0 - DO NOT NUMBER PLOTS = .GT.0 - NUMBER PLOTS IN LOWER LEFT HAND	COMPLOT
			CORNER STARTING WITH INPUT NUMBER	
	67-70	I41		COMPLOT
			= 0 = BLACK	COMPLOT
				COMPLOT
5	1-11	E11.4	ALLOWABLE FRACTIONAL DIFFERENCE. USED WHEN	
			PLOTTING RATIOS. ANY REACTION WHERE THE TWO EVALUATIONS DIFFER BY MORE THAN THE	COMPLOT
			ALLOWABLE DIFFERENCE WILL BE PLOTTED. IF	
				COMPLOT
			DIFFERENCE OF 0.001 (0.1 PER-CENT) WILL BE	COMPLOT
				COMPLOT
	12-22	E11.4		COMPLOT
			PLOTTED THEY WILL BE IN THE RANGE RATMAX TO 1/RATMAX. IF 0.0 IS INPUT THERE WILL	COMPLOT
			BE NO LIMIT ON THE RANGE OF THE RATIOS.	
				COMPLOT
			DIFFERENCES OVER VERY NARROW ENERGY RANGES	COMPLOT
			(WHICH MAY BE UNIMPORTANT) AND ALLOW ONE	
			TO SEE IMPORTANT, BUT SMALLER DIFFERENCES,	
6	1-40	40a1		COMPLOT
7	1-40	40A1		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,	
	7_ 0	то	,	COMPLOT
	9-11			COMPLOT
	12-22	E11.4	LOWER ENERGY LIMIT	COMPLOT
	23-28	16	UPPER MAT OR ZA LIMIT (SEE SELECTION MODE,	
			INPUT LINE 1, COLUMNS 1-11).	COMPLOT
	29-30		UPPER MF LIMIT	COMPLOT
	31-33 34-44		UPPER MT LIMIT UPPER ENERGY LIMIT	COMPLOT
	45-55	I11		COMPLOT
				COMPLOT
			= 1 - IDENTIFY DATA POINTS (BY DRAWING A	
	F. 6.		·	COMPLOT
	56-66	I11	INTERACTIVE INPUT FLAG = 0 - NO INTERACTIVE INPUT ALLOWED	COMPLOT
				COMPLOT
		,		COMPLOT
				COMPLOT
			INTERACTIVELY SPECIFY PLOT LIMITS.	COMPLOT
		1	*IF YOU DO NOT WISH TO INTERACT WITH A PLOT	
				COMPLOT
			THIS OPTION SHOULD BE SET = 0.	COMPLOT
		,	*WARNINGDATA POINTS IDENTIFIED OPTION IS	
			NOT RECOMMENDED FOR PLOTS CONTAINING MANY	
			(I.E. THOUSANDS) OF DATA POINTS SINCE IT	COMPLOT

WILL MERELY INCREASE THE RUNNING TIME OF COMPLOT THE PROGRAM AND STILL NOT ALLOW ONE TO 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 COMPLOT LIMIT. IF THE FIRST RANGE LINE IS BLANK 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 COMPTOT ZERO LOWER AND UPPER MAT OR ZA RANGE IT WILL TERMINATE THE LIST BE RANGE LINES 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 COMPLOT COMPLOT **EQUIVALENCES** COMPLOT MASTER ZA. COMPTOT MASTER MF. COMPLOT MASTER MT. COMPLOT EQUIVALENT ZA FROM SECOND FILE. COMPLOT EQUIVALENT MF FROM SECOND FILE. COMPLOT EQUIVALENT MT FROM SECOND FILE. COMPLOT 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 COMPLOT ONE CONSTITUENT OF A MIXTURE TO THE MIXED COMPLOT CROSS SECTION THIS MAY BE USED TO CONVERT COMPLOT THE SECOND CROSS SECTION TO BARNS PER MIXEDCOMPLOT ATOM BY USING A MULTIPLICATION FACTOR WHICHCOMPLOT 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 1.0COMPLOT (WITH THIS CONVENTION THE USER NEED ONLY INPUT MULTIPLICATION FACTORS IF THEY ARE COMPLOT NOT 1.0). COMPLOT *UP TO 100 MAT OR ZA EQUIVALENCES ARE COMPLOT ALLOWED. COMPTOT *THE LIST IS TERMINATED BY A BLANK LINE. COMPLOT *A ZERO INPUT FIELD IMPLIES ALL. TO EQUATE COMPLOT A GIVEN MT NUMBER TO ANOTHER MT NUMBER YOU COMPLOT NEED MERELY SPECIFY ZA=0 ON INPUT. COMPLOT *NOTE, IN ALL CASES THE TITLE AT TOP OF PLOTCOMPLOT WILL ONLY INDENTIFY MASTER (ZA, MF, MT). THE COMPLOT USER INPUT TITLES MUST BE USED TO IDENTIFY COMPLOT THE SECOND REACTION (SEE, EXAMPLE INPUT 4 BELOW) . COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPTOT COMPLOT COMPLOT

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COMPLOT COMPLOT

EXAMPLE DEFINITION OF PLOTTER

N+1-M

1- 6

7- 8

9-11

12-17

18-19

20-22

23-33

т6

12

13

16

12

13

2015 - WARNING - THE FOLLOWING DESCRIPTION IS OUT-OF-DATE. TODAY THE DIMENSIONS OF THE PLOTTER ARE IN INCHES.

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 COMPLOT 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 COMPLOT 10 X 10 INCH FRAMES WITH 3 X 2 PLOTS PER FRAME THE FIRST INPUT COMPLOT

LINE S	HOULD BE,						COMPLOT
0.0	10.0		10.0		•		COMPLOT
0.0	10.0	0.0	10.0		3	2	COMPLOT
IF THE	LOCAL PLO	TTER USES	DIMENSIO	N OF MILLIME	TERS THE	SAME	COMPLOT
PHYSIC	AL SIZE PI	OT MAY BE	OBTAINED	IF THE FIRS	T INPUT I	INE IS,	COMPLOT
							COMPLOT
0.0	254.0	0.0	254.0		3	2	COMPLOT
TOD 67							COMPLOT
				LE INPUTS WI AND THE FIR			COMPLOT
				PLOTS WITH			COMPLOT
FRAME.		JICHIL IO	n io inch	ILOID WIII	ONEL I II	OI ILK	COMPLOT
							COMPLOT
				ASES THESE C			, COMPLOT
1) DAS	HED GRID	- cc	LUMNS 12-	22 OF SECOND 33 OF SECOND	INPUT LI	NE = 1	COMPLOT
2) NO	BORDER	- cc	LUMNS 23-	33 OF SECOND	INPUT LI	INE = 0	COMPLOT
3) LIN	E THICKNES	ss - cc	LUMNS 34-	44 OF SECOND	INPUT LI	NE = -2	COMPLOT
•				55 OF SECOND 66 OF SECOND			COMPLOT
5) FIR	SI FLOI NO	MBER CC	HOMNS 50	OU OF SECOND	INFOI LI	.112 – 1	COMPLOT
EXAMPL	E INPUT 1						COMPLOT
							COMPLOT
RETRIE	VE MATS 10	23, 1056	AND 1065	THROUGH 1072	, $MT = 1$	AND 2	COMPLOT
•		•		INPUT FILE			COMPLOT
				HAT HAS THE		•	
				0.1 EV TO 1 ND ENDF/B-IV			COMPLOT
				ND ENDF/B-IV FFER AT ONE	•		COMPLOT
				ER-CENT = 0.			COMPLOT
				ARE SPECIFI			COMPLOT
	•	ISE CAN EI	THER BE E	XPLICITLY IN	CLUDED, C	R SIMPLY	COMPLOT
LEFT B	LANK).						COMPLOT
mii = =0	TTOWTNO 10		NEC ADE D	EOUTDED			COMPLOT
THE FO	LLOWING 12	INPUT LI	NES ARE R	EQUIRED.			COMPLOT
0.0	10.	.0 0.	0 10.	0	3	2	COMPLOT
0.0 ENDFB.IN1		0 0.	0 10.	0	3	2	COMPLOT COMPLOT
		0 0.	0 10.	0	3	2	COMPLOT
ENDFB.IN1 ENDFB.IN2 0		1	0 10.		3	2	COMPLOT COMPLOT COMPLOT
ENDFB.IN1 ENDFB.IN2 0	0.	1 0			_	_	COMPLOT COMPLOT COMPLOT COMPLOT
ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V	0. DATA (STAN	1 0			_	_	COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT
ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V ENDF/B-IV	0. DATA (STAN	1 0 NDARD)	0 -		3	_	COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT
ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V ENDF/B-IV 1023 3 1	0. DATA (STAN DATA 0.1	1 0 NDARD)	0 -		3	_	COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT
ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V ENDF/B-IV	0. DATA (STAN DATA 0.1 0.1	1 0 NDARD)	0 - 2 1000.0 2 1000.0		3	_	COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT
ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V ENDF/B-IV 1023 3 1 1056 3 1	0. DATA (STAN DATA 0.1 0.1	1 0 MDARD) 3 3	0 - 2 1000.0 2 1000.0 2 1000.0	2 (TERMINATES	3 0 0 0 REQUEST I	1	COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT COMPLOT
ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V ENDF/B-IV 1023 3 1 1056 3 1	0. DATA (STAN DATA 0.1 0.1	1 0 MDARD) 3 3	0 - 2 1000.0 2 1000.0 2 1000.0	2	3 0 0 0 REQUEST I	1	COMPLOT
ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V ENDF/B-IV 1023 3 1 1056 3 1	0. DATA (STAN DATA 0.1 0.1	1 0 MDARD) 3 3	0 - 2 1000.0 2 1000.0 2 1000.0	2 (TERMINATES	3 0 0 0 REQUEST I	1	COMPLOT
ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V ENDF/B-IV 1023 3 1 1056 3 1	0. DATA (STAN DATA 0.1 0.1	1 0 MDARD) 3 3	0 - 2 1000.0 2 1000.0 2 1000.0	2 (TERMINATES	3 0 0 0 REQUEST I	1	COMPLOT
ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V ENDF/B-IV 1023 3 1 1056 3 1 1065 3 1	0. DATA (STAN DATA 0.1 0.1 0.1	1 0 IDARD) 3 3 1072 3	0 - 2 1000.0 2 1000.0 2 1000.0	2 (TERMINATES (TERMINATES	3 0 0 0 REQUEST I EQUIVALEN	1 JUST) ICE LIST)	COMPLOT
ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V ENDF/B-IV 1023 3 1 1056 3 1 1065 3 1	0.1 0.1 0.1 0.1 0.1	1 0 IDARD) 3 3 1072 3	0 - 2 1000.0 2 1000.0 2 1000.0	2 (TERMINATES	3 0 0 0 REQUEST I	1 LIST) ICE LIST)	COMPLOT
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ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V ENDF/B-IV 1023 3 1 1056 3 1 1065 3 1 EXAMPL TO USE EXCEPT FOLLOW	0.DATA (STAN DATA 0.1 0.1 0.1 0.1 E INPUT 2	1 0 IDARD) 3 3 1072 3	0 - 2 1000.0 2 1000.0 2 1000.0 PTIONS AS U-238 AN ARE REQUI	2 (TERMINATES (TERMINATES SPECIFIED IN D PU-239 THR RED.	3 0 0 0 REQUEST I	1 LIST) ICE LIST)	COMPLOT
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ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V ENDF/B-IV 1023 3 1 1056 3 1 1065 3 1 EXAMPL TO USE EXCEPT FOLLOW 0.0 ENDFB.IN1 ENDFB.IN1	0.DATA (STAN DATA 0.1 0.1 0.1 0.1 E INPUT 2 ALL OF THE TO RETRIE ING 12 INF	1 0 IDARD) 3 3 1072 3 HE SAME OF EVE U-235, PUT LINES 0 0.	0 - 2 1000.0 2 1000.0 2 1000.0 TIONS AS U-238 AN ARE REQUI	2 (TERMINATES (TERMINATES SPECIFIED IN D PU-239 THR RED.	3 0 0 0 REQUEST I EQUIVALEN EXAMPLE OUGH PU-2	1 LIST) ICE LIST) INPUT 1, 142 THE	COMPLOT
ENDFB.IN1 ENDFB.IN2 0 0.01 ENDF/B-V ENDF/B-IV 1023 3 1 1056 3 1 1065 3 1 EXAMPL TO USE EXCEPT FOLLOW 0.0 ENDFB.IN1 ENDFB.IN2	0.DATA (STAN DATA 0.1 0.1 0.1 0.1 0.1 DATA 0.1 DATA 0.1 DATA 0.1 DATA DATA DATA DATA DATA DATA DATA DAT	1 0 IDARD) 3 3 1072 3 1072 3	0 - 2 1000.0 2 1000.0 2 1000.0 PTIONS AS U-238 AN ARE REQUI	2 (TERMINATES (TERMINATES SPECIFIED IN D PU-239 THR RED.	3 0 0 0 REQUEST I EQUIVALEN EQUIVALEN EXAMPLE OUGH PU-2	1 LIST) ICE LIST) INPUT 1, 142 THE	COMPLOT
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IN DIFFER	ENT VERSION	S OF THE	ENDF/B F	ORMAT DI	FFERENT MT	NUMBERS	COMPLOT
ARE ASSIG	NED TO THE	SAME REA	CTION. FO	R EXAMPL	E, IN ENDF/	B-V AND	COMPLOT
EARLIER V	ERSIONS OF	ENDF/B T	HE PHOTOE	LECTRIC (CROSS SECTI	ON IS	COMPLOT
•		•			RDER TO COM		COMPLOT
			•		OTHER ENDF	/B FILE	COMPLOT
IS ENDE/B	-V (OR EARI	TEK) YOU	MAY EQUA	TE MT=52	2 TO 602.		COMPLOT
WHEN COMP	ADING DUOTG	NET ECTROTO	CDOCC CE	CULONG M	E EXPECT TH	TO 0T TO TO	COMPLOT
					E EXPECT IN IKELY THAT		COMPLOT
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					OT IMPORTAN		
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LARGE DIF	FERENCES MA	Y MAKE I	T DIFFICU	LT TO SE	E DIFFERENC	ES OVER	COMPLOT
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					г 0.9 то 1.		COMPLOT
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	Y SPECIFYIN MINIMUM RAT				WHICH WILL	IN TURN	
DEFINE A	MINIMUM RAI	10 OF 17	1.1, OK A	BO01 0.9	•		COMPLOT
IN ORDER '	TO COMPARE	тне рнот	OELECTRIC	CROSS SI	ECTION FOR	ALL	COMPLOT
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023522	9999	23522	/	DMTNAMM	0	Cm)	COMPLOT
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			(12		_201/ADDNO		20111 1101

EXAMPLE INPUT 6 THE SAME EXAMPLE AS ABOVE, EXCEPT THAT DIFFERENT FILENAMES WILL BE USED TO READ THE DATA FROM A FILE TREE STRUCTURE. THE FOLLOWIN 11 INPUT LINES ARE REQUIRED. 0.0 10.0 0.0 10.0 3 2 /Evaluated/ENDFB6/PHOTON.IN 0 1 0 -2 3 1 0.01 1.1 ENDF/B-VI ENDF/B-V 023522 999923522 0 (TERMINATES REQUEST LIST) 023522 023602 (MULTIPLICATION OF 1.0 INFERRED (TERMINATES EQUIVALENCE LIST) EXAMPLE INPUT 7 THE OUTPUT FOR ALL OF THE ABOVE EXAMPLES ARE ORIENTED WITH X HORIZONTAL AND Y VERTICAL. TO CHANGE THE ORIENTATION OF THE PLOTS YOU NEED MERELY SPECIFY A NEGATIVE UPPER X LIMIT OF THE SIZE OF THE PLOTS ON THE FIRST INPUT LINE. THE FOLLOWING EXAMPLE IS EXACTLY THE SAME AS THE ABOVE EXAMPLE, EXCEPT THAT THE ORIENTATION OF THE PLOTS HAS BEEN CHANGED. THE FOLLOWING 11 INPUT LINES ARE REQUIRED. 0.0 -10.0 0.0 10.0 3 2 /Evaluated/ENDFB6/PHOTON.IN /Evaluated/ENDFB6/PHOTON.IN /Evaluated/ENDFB5/PHOTON.IN 0 1 0 -2 3 1 1 ENDE/B-VI
THE SAME EXAMPLE AS ABOVE, EXCEPT THAT DIFFERENT FILENAMES WILL BE USED TO READ THE DATA FROM A FILE TREE STRUCTURE. THE FOLLOWIN 11 INPUT LINES ARE REQUIRED. 0.0 10.0 0.0 10.0 3 2 /Evaluated/ENDFB6/PHOTON.IN 0 1 0 -2 3 1 0.01 1.1 ENDF/B-VI ENDF/B-V 023522 999923522 0 (TERMINATES REQUEST LIST) 023522 023602 (MULTIPLICATION OF 1.0 INFERRED (TERMINATES EQUIVALENCE LIST) EXAMPLE INPUT 7 THE OUTPUT FOR ALL OF THE ABOVE EXAMPLES ARE ORIENTED WITH X HORIZONTAL AND Y VERTICAL. TO CHANGE THE ORIENTATION OF THE PLOTS YOU NEED MERELY SPECIFY A NEGATIVE UPPER X LIMIT OF THE SIZE OF THE PLOTS ON THE FIRST INPUT LINE. THE FOLLOWING EXAMPLE IS EXACTLY THE SAME AS THE ABOVE EXAMPLE, EXCEPT THAT THE ORIENTATION OF THE PLOTS HAS BEEN CHANGED. THE FOLLOWING 11 INPUT LINES ARE REQUIRED. 0.0 -10.0 0.0 10.0 3 2 /Evaluated/ENDFB6/PHOTON.IN /Evaluated/ENDFB5/PHOTON.IN 0 1 0 -2 3 1 1 ENDF/B-VI
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ENDE /D 1/
ENDF/B-V 023522 999923522 0
(TERMINATES REQUEST LIST)
023522 023602 (MULTIPLICATION OF 1.0 INFERRED
(TERMINATES EQUIVALENCE LIST)
(Intilially agoliimanos stor)
===== PLOTTER/GRAPHICS TERMINAL INTERFACE ==============
NON-INTERACTIVE
THIS PROGRAM USES A SIMPLE CALCOMP LIKE INTERFACE INVOLVING
ONLY 5 SUBROUTINES,
STARPLOT - INITIALIZE PLOTTER
NEXTPLOT - CLEAR SCREEN FOR NEXT PLOT
ENDPLOTS - TERMINATE PLOTTING
PLOT(X,Y,IPEN) - DRAW OR MOVE FROM LAST LOCATION TO (X,Y)
END OF CURRENT PLOT OR END OF PLOTTING.
IPEN = 2 - DRAW
= 3 - MOVE
-
PEN(IPEN) - SELECT COLOR.
IPEN- COLOR = 1 TO N (N = ANY POSITIVE INTEGER)
BOXCOLOR (X.Y.IFILL.IBORDER) - FILL A RECTANGLE WITH COLOR
BOXCOLOR(X,Y,IFILL,IBORDER) - FILL A RECTANGLE WITH COLOR X,Y = DEFINE THE CORNERS OF THE BOX
X,Y = DEFINE THE CORNERS OF THE BOX
X,Y = DEFINE THE CORNERS OF THE BOX IFILL = COLOR TO FILL BOX WITH
X,Y = DEFINE THE CORNERS OF THE BOX
X,Y = DEFINE THE CORNERS OF THE BOX IFILL = COLOR TO FILL BOX WITH IBORDER = COLOR OF BORDER OF BOX
X,Y = DEFINE THE CORNERS OF THE BOX IFILL = COLOR TO FILL BOX WITH IBORDER = COLOR OF BORDER OF BOX INTERACTIVE
X,Y = DEFINE THE CORNERS OF THE BOX IFILL = COLOR TO FILL BOX WITH IBORDER = COLOR OF BORDER OF BOX INTERACTIVE
X,Y = DEFINE THE CORNERS OF THE BOX IFILL = COLOR TO FILL BOX WITH IBORDER = COLOR OF BORDER OF BOX INTERACTIVE

INTERACT (MYACTION)		
MYACTION	= 0 - NO (RETURNED BY INTERACT) = 1 - YES (RETURNED BY INTERACT)	
	•	COMPLOT
MOUSEY(IWAY,XI,YI,IWAY1,		COMPLOT
	•	COMPLOT
	= 1 - LEFT BUTTON	COMPLOT
		COMPLOT
		COMPLOT
v	= 4 - KEYBOARD INPUT II = real*4 X POSITION IN LOCAL UNIT:	COMPLOT
	II = real*4 X POSITION IN LOCAL UNIT: II = real*4 Y POSITION IN LOCAL UNIT:	
		COMPLOT
I	WAY2 = MAXIMUM ALLOWABLE IWAY	COMPLOT
		COMPLOT
AS USED BY THIS PROGRAM I		COMPLOT
		COMPLOT
	_	COMPLOT
·	E TO SEE IF A ZOOMED PLOT IS REQUESTED.	
	TO DEFINE ONE X (E.G., ENERGY) LIMIT OF	
THE ZOOMED PLOT. MOUSEY W	ILL THEN BE CALLED A SECOND TIME TO	COMPLOT
	INE THE OTHER X LIMIT OF THE ZOOMED	COMPLOT
PLOT.		COMPLOT
TE VOII DO NOT WANT INTERA	CTION YOU SHOULD INCLUDE THE FOLLOWING	COMPLOT
SUBROUTINES IN YOUR GRAPH		COMPLOT
	,	COMPLOT
SUBROUTINE INTERACT (MYACT	ION)	COMPLOT
MYACTION=0		COMPLOT
RETURN		COMPLOT
END SUBROUTINE MOUSEY(IWAY,XI	. VI IMAV1 IMAV2)	COMPLOT
IWAY=4	, 11, 1WA11, 1WA12)	COMPLOT
XI=0.0		COMPLOT
YI=0.0		COMPLOT
RETURN		COMPLOT
END		COMPLOT
ALTERNATIVE INTERACTIVE		COMPLOT
ALIERNATIVE INTERACTIVE		-COMPLOT
IF YOU DO NOT HAVE A MOUS		COMPLOT
INPUT YOU CAN REPLACE SUB	ROUTINE ACTION IN THIS PROGRAM.	COMPLOT
		COMPLOT
		COMPLOT
NEXT PLOT. A CALL TO ACTI		COMPLOT
NEAT FEOT. A CALL TO ACT	on 15 of the folds,	COMPLOT
CALL ACTION (KACTV, XACT1, X	ACT2)	COMPLOT
		COMPLOT
	NO INTERACTIVE INPUT	COMPLOT
	INTERACTIVE INPUT	COMPLOT
	ER ENERGY LIMIT ER ENERGY LIMIT	COMPLOT
Miciz - Cii	IN INDIGIT ITHIT	COMPLOT
IF THERE IS NO INTERACTIV	E INPUT THE PROGRAM WILL PROCEED TO THE	
NEXT PLOT REQUESTED BY NO	N-INTERACTIVE INPUT.	COMPLOT
		COMPLOT
	NPUT THE PROGRAM WILL USE XACT1 AND	COMPLOT
	Y LIMITS OF THE NEXT PLOT USING THE THE LAST PLOT. AS WITH NON-INTERACTIVE	COMPLOT
	NERGY RANGE WHERE THE MAXIMUM DIFFERENCE	
•	ED BY INPUT NO PLOT WILL BE PRODUCED	COMPLOT
AND THE CODE WILL PROCEED	TO THE NEXT PLOT REQUESTED BY	COMPLOT
NON-INTERACTIVE INPUT.		COMPLOT
VOIL CAN DEDITION CONDOCTOR	THE ACTUAL TOUR CONTINUE TO A POST CONTINUE TO A	COMPLOT
	E ACTION FOLLOWING THE ABOVE CONVENTIONS DIRECT READ OF X LIMITS, LIGHTPEN OR	COMPLOT
WHATEVER FACILITIES YOU H	•	COMPLOT
		COMPLOT
		00111 101
INTERFACING		COMPLOT

	COMPTOT
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	
THE USER TO WRITE 5 SUBROUTINES DESCRIBED ABOVE AND TO THEN CALL	
THE LOCAL EQUIVALENT ROUTINES.	COMPLOT
GOLOD DI OMG	
COLOR PLOTS	COMPLOT
TO SELECT PLOTTING COLORS SUBROUTINE PEN (DESCRIBED ABOVE) IS USEI	
TO SELECT ONE OF THE AVAILABLE COLORS. WHEN RUNNING ON A MAINFRAME	
	COMPLOT
PACKARD PLOTTER THE GRAPHICS INTERFACE (DESCRIBED ABOVE) WILL	COMPLOT
PRODUCE COLOR PLOTS.	COMPLOT
	COMPLOT
BLACK AND WHITE PLOTS	COMPLOT
	-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
END	COMPLOT
	COMPLOT
CHARACTER SET	COMPLOT
	-COMPLOT
THIS PROGRAM USES COMPUTER AND PLOTTER DEVICE INDEPENDENT SOFTWARK	ECOMPLOT
CHARACTERS. THIS PROGRAM COMES WITH A FILE THAT DEFINES THE PEN	COMPLOT
STROKES REQUIRED TO DRAW ALL CHARACTERS ON AN IBM KEYBOARD (UPPER	
AND LOWER CASE CHARACTERS, NUMBERS, ETC.) PLUS AN ALTERNATE SET OF	
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	
DRAW EACH CHARACTER. IF YOU WISH TO DRAW ANY ADDITIONAL CHARACTERS	
Didn their children in 100 with 10 Didn ANI ADDITIONAL CHILDREN	JCOLIL HOI
OD TO MODIEV THE FORT OF THE EXISTING CHADACTEDS VOI NEED ONLY	COMPLOT
	COMPLOT
OR TO MODIFY THE FONT OF THE EXISTING CHARACTERS YOU NEED ONLY MODIFY THIS TABLE.	COMPLOT
MODIFY THIS TABLE.	COMPLOT COMPLOT
MODIFY THIS TABLE. CONTROL CHARACTERS	COMPLOT COMPLOT COMPLOT
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}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
]G TOTAL	COMPLOT
	COMPLOT
NOTE, WHEN THESE CONTROL CHARACTERS ARE USED THEY ONLY EFFECT THE	
NEXT 1 PRINTED CHARACTER (SEE, ABOVE EXAMPLE OF PLOTTING SUPER-	COMPLOT
SCRIPT 10 WHERE THE SHIFT UP CONTROL CHARACTER WAS USED BEFORE THE	
1 AND THEN AGAIN BEFORE THE 0 AND THE BACKSPACE AND SHIFT UP	
	COMPLOT
CONTROL CHARACTERS WERE USED IN COMBINATION).	COMPLOT
THE WHICH A COMMON CHARLOWED AND MOR AND THE ON MOUR COMPUTED	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	
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	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	
CONTROL CHARACTER WILL PERFORM A TRUE BACKSPACE AND WILL EFFECT	COMPLOT
ALL FOLLOWING CHARACTERS IN THE SAME CHARACTER STRING.	COMPLOT
IND TODESTING CHRISTOTING IN THE CHARACTER STRING.	COMPLOT
PLOT DIMENSIONS	COMPLOT
PLOT DIMENSIONS	
	COMPLOT
	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,	
MILLIMETERS, WHATEVER) OF THE PLOTTER BEING USED AND OUTPUT.	COMPLOT
	COMPLOT
= PLOTTER/GRAPHICS TERMINAL INTERFACE =======================	
	COMPLOT