Table XIII B.1. Files used by SAMMY. The letter A, B, or O in the second column indicates whether the file is written as ASCII, binary, or ODF file. Only SAMMY files (not those for auxiliary codes) are listed here.

Unit No.	A, B, O	File name if not standard	Subdirectory: subroutines in which this file is written	Subdirectory: subroutines in which this file is read	Content
5	A	Interactive input		mas: many places	See Table VI E.1
6	A	Log file	[Many places]		
10	A	CLM file		clm: Readclm_0, Find_Osc, Readclm	Crystal lattice information; see Section III.B.4
10	A	ENDF/B-VI file 2		mas: Rcontx, Rcont, Rtab1, Rlist, Read_Pp7, Endf7	Resonance parameters in ENDF formats
10	A	ENDF/B file 3		rec: Read3, Rdndf3	File 3 contribution to cross section
10	A	MXW file		mxw: Rktxxx, Readkt	See Section V.D and VI.F.4
10	A	NDF file		ndf: Rdndf7, Read_ndf, Rdndf	See Section VI.F.2
10	A	NTG file		ntg: Rdntgq_0, Rdntgq	Integral data; see Sections V.B and VI.D
11	A	INPut file		mas: Finpx, Finp, New_Input_File, Newinp	See Tables VI A.1 and VI A1.2
12, 32	A	Initial PARameter file		mas: Fpar_If_Cov inp: many places par: many places fdc: Paramf	See Table VI B.2
12	A	SAMNDF.PAR	mas: several		SAMMY-style PAR file generated from ENDF/B file 2
13	A	SAMNDF.INP	mas: several		SAMMY-style INPut file generated from ENDF/B file 2

Table XIII B.1 (continued)

Unit No.	A, B, O	File name if not standard	Subdirectory: subroutines in which this file is written	Subdirectory: subroutines in which this file is read	Content
13, 14	A or O	DATa file		mas: Ascidt, Ascxdt odf: many dat: many fdc: Rddat0_Fdc, Rddat1_Fdc	See Table VIC.1
14	A	SAMEXP. DAT	mas: odfdat	odf: many dat: many	ASCII version of ODF data file
14	A	SAMNDF. PAR *or* SAMMY. PAR		mas: Rewrite_12	Rewriting output PARameter file
15	A	SAMMY. FFF		fff: many	FITACS input file, see Section VIII
16	A		mas: Sumstr, Wrt16x, Writ16, File2x,	inp: Saminp_0, Files, Filesx, Qcova old: Addup fff: Pass	Controls for passes 1 and 2 through SAMMY
17					
18	A		mas: finp, writ19, file2x odf: chck18	odf: Chck18, Read18	Controls for running ODF segment
19	A		mas: Writ19	inp: Saminp_0, Files, Filesx, Qcova old: Addup fff: Pass	Controls for pass 3 through SAMMY
20					
21	A	SAMMY. LPT	many places	never	"Line Printer" output giving details for this SAMMY run
22	A	INPUT. NEW	inp: Rdspnx		Error message when using obsolete input

Table XIII B.1 (continued)

Unit No.	A, B, O	File name if not standard	Subdirectory: subroutines in which this file is written	Subdirectory: subroutines in which this file is read	Content
22	A		mas: New_Input_File, Sett, Set, Write_Alpha	inp: many places fff: Pass	Copy of INPut file, with appropriate modifications for first pass through SAMMY
23, 24	A				Like 22, for passes 2 and 3
25	B	SAMMY. SSM	inp: Qqqwrt	ssm: Qqqxxx, Qqqget	Edge effects for single-scattering corrections to capture or fission yields
25	B	REMORI. PAR	wyw: Getywy	wyw: Getywy ywy: Get_Dminth_ Gppn	Original parameter covariance matrix for retroactive method
26, 27	A		inp: Saminp_0, Rdspno fin: Find_More_Data avg: Again	fin: Find_More_Data avg: Tryrng, Test_If_Data, Again mxw:Rktxxx ndf: Endfb6	Similar to SAM16.DAT
28	A	AVG file		avg: Tryrng, Qrange	See Section VI.F.1
29					
30	B		acs: Wrt30	mpw: Readwx	Arrays *W* and *Y* for M+W inversion scheme (see Section IV.B.3)
30	A	(user-supplied)	idc: Wrt30_Idc	ipq: Estx, estipq, findxx npv: Get_Idc_1, Findxx, Read_Cov_Idc	Implicit data covariance information

Table XIII B.1 (continued)

Unit No.	A, B, O	File name if not standard	Subdirectory: subroutines in which this file is written	Subdirectory: subroutines in which this file is read	Content
30	B		ntg: Wrntgq, Wrntgx	npv: Rdntg1, Prepare_Storage ywy: Rdntg1_Ywy	Integral data information
31					
32	A		mas: Datcov	wyw: Getywy	File names for Y_i and W_i for data set i; see Section IV.E.1
32	A	SAMMY. PAR	fit: Writep		Updated PAR file for the URR (unresolved resonance region); see Section VIII.C
33	A	SAMMY. PA2	fdc: Paramf		Modified PAR file; see Section VI.C.3.c
34	A	SAMMY. IDC	fdc: Paramf	idc: many places	See Section VI.C.3.c
33-35	A				Debug printout
36	A		fin: many	fin: Rewrite_12	Temporary file for creating SAMMY.RED
37	B		npv: Get_W_Idc old: Rdcov_Pup	inp: Reorg_Cov old: Rparfl_Pup end: Outvs	Covariance matrix for Propagated-Uncertainty Parameters
38	A		mas: Endf2, Endf7 fin: Oldord	mas: Rewrite_12	Temporary site for storing parameters prior to rewriting
39	A		mas: Read_Pp7	mas: Rewrite_12	SAMMY-style input file created from ENDF File 2

Table XIII B.1 (continued)

Unit No.	A, B, O	File name if not standard	Subdirectory: subroutines in which this file is written	Subdirectory: subroutines in which this file is read	Content
40			fin: many	fin: Rewrite_12	Temporary file used in creating SAMMY.REL
41	B		old: Set41	fin: Compare_Values	Original parameter uncertainties
42	B		new: Rparf_Retro, Reorg_Cov, Rparfx old: Rdcov, Rdcovx fin: Gnalvr, Gncrfn, Gnradi	old: Set41, Addup fin: Wrcov, Compare_Values end: Outvs, User_Output	Temporary storage for covariance matrices, etc.
43	B		dat: Stndrd	npv: Read_Data_Red _Par	Partial derivatives with respect to data-reduction parameters
44	B		dat: Wr44 the: Uset	int: Pdwrit npv: Get_Exp_Data ref: Read44	Data and data uncertainties
45	B		npv: Setvdt	fin: Vodf	Theoretical uncertainties
46	B		new: many places old: Rdcov, Rdcovx, Addup fff: Parin ipq: Chngc2 mpw:Newpar_Mpw npv: Chngcv wyw:Newpar_Wyw	new: Reorg_Cov, Set41 old: Set41 squ: Square npv: Test_Eig ywy: Setywy_Diag, Setywy_Off_Diag, Rdntg1_Ywy wyw:Getywy fin: Gnalvr, Wrcov, Compare_Values fit: Parnew, Csunc, Fintab, Write_C acs: Begin_Iteration lru: Read_Covar (several): Outvs	Covariance matrix for *u*-parameters in triangular form

Table XIII B.1 (continued)

Unit No.	A, B, O	File name if not standard	Subdirectory: subroutines in which this file is written	Subdirectory: subroutines in which this file is read	Content
47	B		squ: Square mpw:Newpar_Mpw fff: Parin new: Reorg_Cov	avg: Thefix ccm: Create_Cov ipq: Newpar_Ipq npv: Setemg mpw: Newpar_Mpw mxw: Fixcov_Mxw ntg: Fixcov	Covariance matrix for *u*-parameters in full square form
48	B		xct: Write_W_48	dbd: Read_W_48	Partial derivatives
49	B		fff: Wrt_49 new: Write_49, Write_49_No_U old: Rdcov, Rdcovx ipq: Samipq_0, Writeu npv: Samnpv_0 mpw:Sammpw_0	int: Finished, Leal_Hwang squ: Samsqu_0 npv: Get_Organized mpv: Sammpw_0 fin: Samfin_0, Convrt, Wrcov fit: Parnew, Write_C	Dimensions, etc., as needed by matrix manipulator routines
50	B		dat: Wr44	npv: Compar, Findxx, Make_File_3	Experimental energies
51, 54	B		xct: Write_Cross_ Sections	dbd: Read_Cross_ Sections	Cross sections and derivatives
52					
53	B		npv: Compar, Set_Dminth		Energy, data, theory for code-comparison studies
54	B		xct: Write_Cross_ Sections	dbd: Read_Cross_ Sections	Cross sections and derivatives
55	A	SAMMY. CRS	grp: Rewrite_3		Averaged cross sections in ENDF format
55	A	SAMMY. N33	grp: Rewrite_33		ENDF File 33 (covariance) for averaged cross sections

Table XIII B.1 (continued)

Unit No.	A, B, O	File name if not standard	Subdirectory: subroutines in which this file is written	Subdirectory: subroutines in which this file is read	Content
55	A	SAMMY.NDF, SAMMY.N32, SAMMY.FL3	ndf: Rewrite_Ndf and others lru: Write_Cmpc_Cov_2		ENDF files
56	A	SAMMY.NDX, SAMMY.N3X, SAMMY.FLX	ndf: Rewrite_Ndf and others lru: Write_Cmpc_Cov_2		Annotated ENDF files
57	A		grp: File 33	grp: Rewrite_33, Rewrite_3	Intermediate ENDF files
57, 58	A		lru: several ndf: several npv: Make_File_3		Intermediate ENDF files
59					
60	A		mas: Writ16x, Writ16	acs: Make_File_3_Urr clm: Readclm_0 npv: Make_File_3 ntg: Rdntgq_0	Name of special-purpose input files
61	A		mxw: Mxwell		Maxwellian-averaged capture cross sections in legible format
61	A	SAMMY.FIG	end: Readxx		ASCII file containing broadened cross sections, from which plots can be made

Table XIII B.1 (continued)

Unit No.	A, B, O	File name if not standard	Subdirectory: subroutines in which this file is written	Subdirectory: subroutines in which this file is read	Content
61	A	SAMMXW.FIG	end: Readxx		Ascii file containing stellar-averaged cross sections
62	B		fin: Gnalvr	fin: several old: many	Binary covariance matrix for P-parameters
63	A	DCV file		dat: Qdatcv	Explicit data covariance matrix
64	B	SAMMY.COV	fin: Wrcov		Output binary covariance matrix for P-parameters
65					
66	A	fort.66	ssm: Ssssds		Debug printout of corrections to capture yield
67-69					
70	A	SAMMY.IO	end: Outpar		Like SAMMY.LPT (unit 21), except contains only input and output
71	A	SAMMY.PDS	new: Opnpds int: Pdwrit		Partial derivatives, for use in generating parameter covariance matrix
72	O	SAMMY.ODF	odf: several int: Thodf fin: Vodf	int: Thodf fin: Vodf	ODF file containing broadened cross sections, from which plots can be made

Table XIII B.1 (continued)

Unit No.	A, B, O	File name if not standard	Subdirectory: subroutines in which this file is written	Subdirectory: subroutines in which this file is read	Content
73	O	SAMMXW.ODF	grp: Mxwodf		ODF file containing stellar-averaged cross sections
77	A	SAMMY.CCV	old:Covnd3		Covariance matrix in ENDF compact format (LCOMP = 2)
82 (60)	B	SAMMY.PLT	odf: several int: Thodf fin: Vodf	int: Thodf fin: Vodf end: Readxx	Binary file containing broadened cross sections, to be read by program samplt
83 (60)	B	SAMMXW.PLT	grp: Mxwodf	end: Readxx	Binary file containing stellar-averaged cross sections