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COMMUNITY NOISE ASSESSMENT MANUAL

USERS MANUAL FOR THE

SOCIAL SURVEY COMPUTER

SYSTEM

550/9-**81-415**

July 1981



U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Noise Abatement and Control Washington, D.C. 20460

Under Contract No. 68-01-3840

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SECTION 1 - INTRODUCTION

1.1 PURPOSE

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The Attitudinal Survey Data Analysis System (ASDAS) is a system of computer programs. It is designed to analyze the raw numbers generated by a sociological survey (the Community Noise Assessment Social Survey) and produce from them a series of concise, meaningful reports. The system is administered by the State and Local Programs Division of the EPA's Office of Noise Abatement and Control (ONAC). In conjunction with the Acoustical Data Reduction and Noise Optimization (NOIZOP) computer programs, ASDAS makes up the data processing end of a larger system of data collection and data processing protocols. This larger system is called LISTEN, an acronym for Local Information System to Evaluate Noise. (Strictly speaking, LISTEN refers only to the data processing end of this system, but the term is often used to refer the system as a whole). LISTEN enables a community to determine the most effective combination of noise control measures to employ, given:

- The nature and distribution of noise sources within the community
- The extent and manner in which noise affects the community's residents
- The budgetary limits imposed on the community's planners. Figure 1-1 shows ASDAS' relationship to the rest of LISTEN.

1.2 OPERATIONAL ENVIRONMENT

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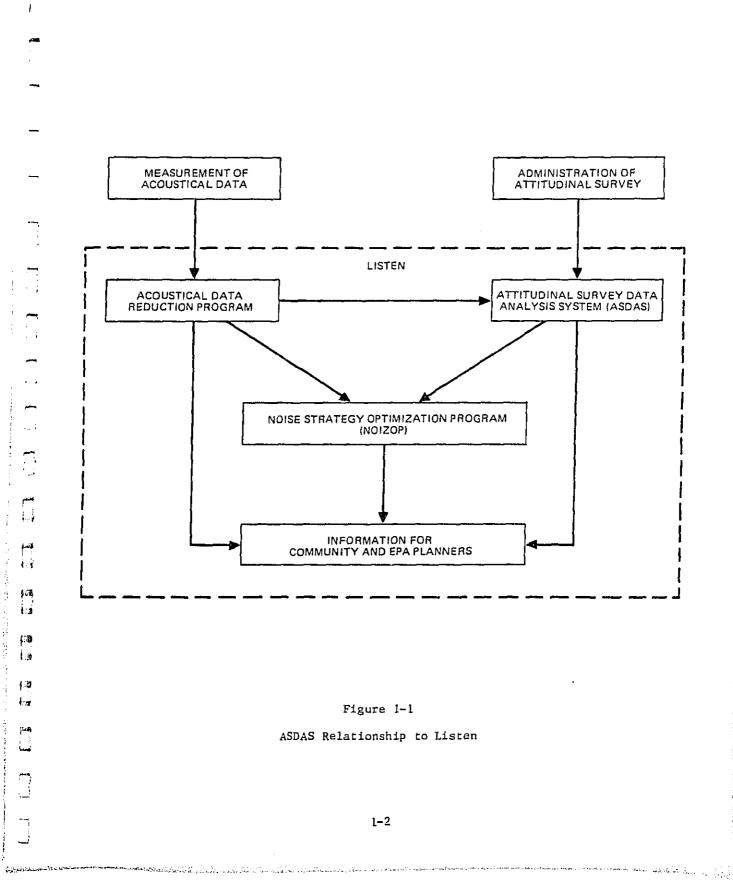
ASDAS runs on the UNIVAC 1110 computer under the EXEC 8 operating system as implemented at the EPA's National Computer Center (NCC), Research Triangle Park, North Carolina. The following system processors are also required:

- SPSS (Statistical Package for the Social Sciences)
 Version 7.2
- The University of Maryland text editor (identified as US*ER.ED on the NCC system)

All FORTRAN programs were compiled using the UNIVAC FORTRAN V (release 4R1) compiler.

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1.3 SYSTEMS CONFIGURATION

It is anticipated that the system will be run at a remote site. Therefore, in addition to equipment and software listed in 1.2 above, a remote card reader and line printer will be needed. Information on interfacing this equipment with the UNIVAC 1110 computer is available from NCC user support personnel. Appendix A contains a list of NCC contacts.

1.4 USER PROFILE

It is intended that this system be run by EPA or EPA contractor data entry personnel. No programming experience should be necessary to use this manual and the system correctly. It will be advisable, however, to have an experienced programmer available in case any questions arise.

1.5 NOTATION CONVENTIONS

This manual follows the standard practice of presenting all user supplied information in lower case when shown in a runstream example. Information that is standard for all users and that must be punched as given in the example is presented in UPPER CASE.

File names under the UNIVAC EXEC 8 operating system are composed of two parts a qualifier and a name, and are written in the form qualifier name. If the qualifier is omitted it is assumed to be the same as the proj-id.

1.6 CARD CODES

See Appendix D for information on possible card code conflicts.

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SECTION 2 - SYSTEM SUMMARY

2.1 OVERVIEW

2.1.1 STRUCTURE

The ASDAS consists of eight programs which perform four tasks utilizing seven data files. One data file serves as input to the program; six contain output. In addition, several intermediate files are produced by the system. The programs are named:

CLEAN	(FORTRAN)
VARIANCE	11
TAILOR	11
RECODE1	(SPSS)
RECODE2	tt.
FREQUENCIES	11
CROSSTABS	11
REGRESSIONS	n

The data files are listed in Figure 2-1.

The tasks accomplished by ASDAS are:

- Data cleaning,
- Variance analysis,
- SPSS program generation,
- Statistical analysis.

The data files used contain:

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- Raw input data from the questionnaire,
- The output from the data cleaning, variance analysis and statistical analysis portions of the system.

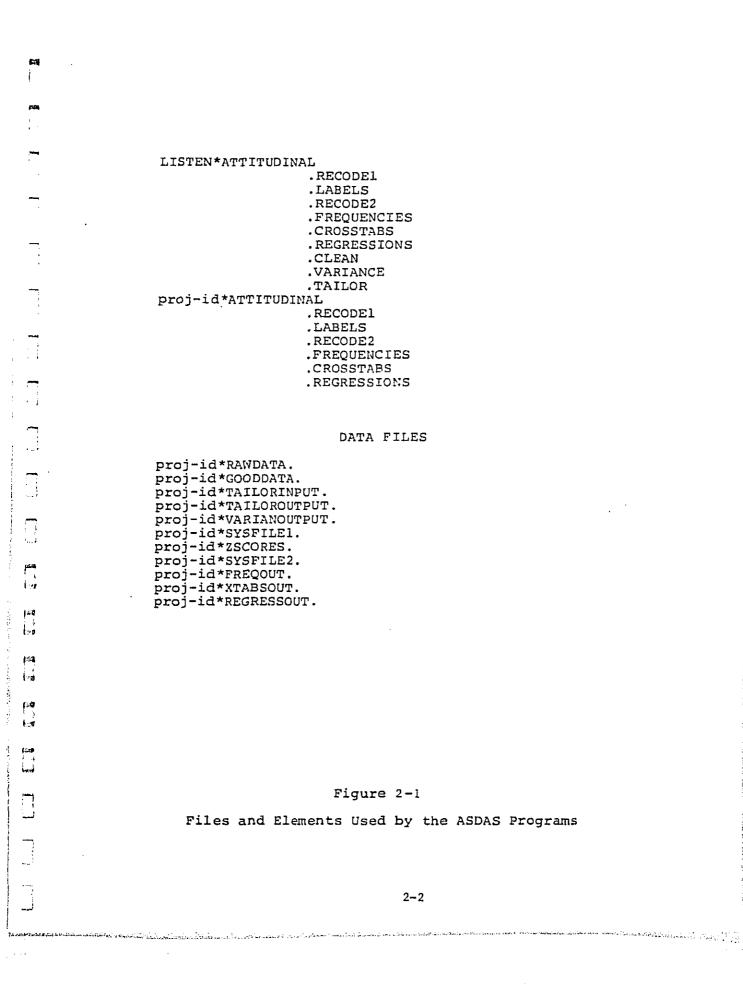
The raw data must be on a disk file that is created from punched cards provided by the community which administered the survey. All other data files are created by the system and reside on disk. Figure 2-2 shows the flow of data through the system.

0707 0000 acces

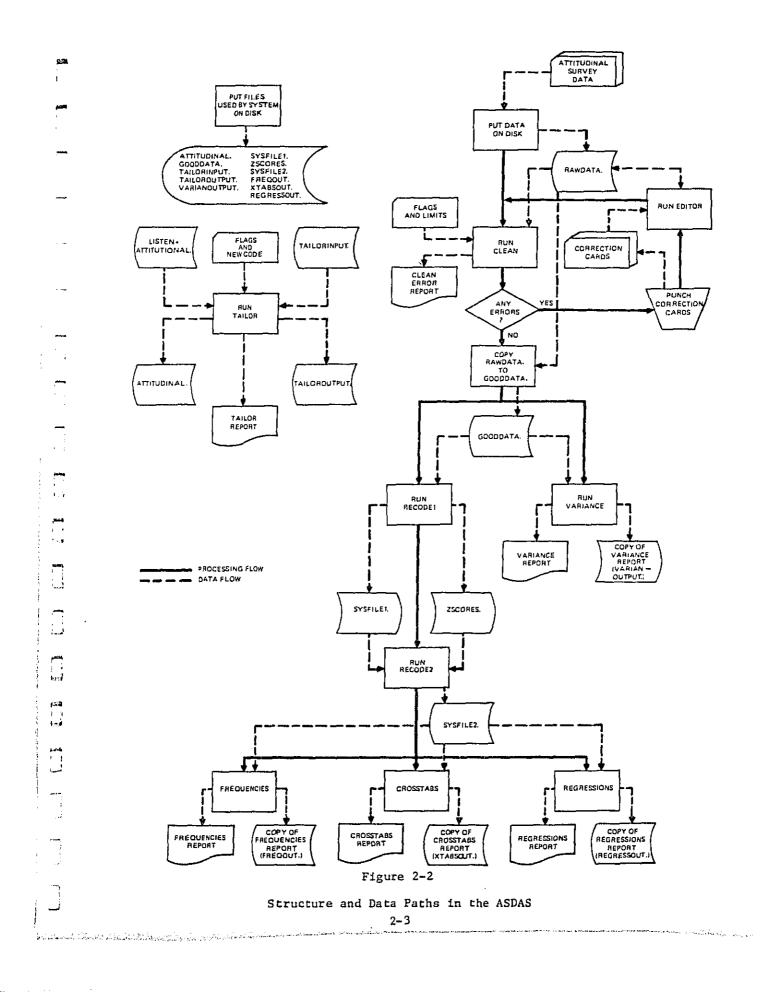
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2.1.2 FLOW

In the first step, data cleaning, the raw data from the questionnaire are fed to the CLEAN program which reports all detectable errors. These errors are corrected by the user and the modified data must then be submitted to the CLEAN program for more checking. This process is repeated until no more errors are found by CLEAN.

Once the data has been corrected, the user begins the second and third tasks. The second task, determination of the error introduced by computer sampling, is performed by the VARIANCE program. This program calculates a variety of statistics, most importantly the variance, for a number of variables. From the variance we can determine the error induced by the sampling method used (stratified cluster sampling).

The third task is the selection of a configuration for each of the SPSS statistical analysis programs. There are four possible configurations depending upon whether or not a community has a noise control program and whether or not it has conducted an acoustical survey. The program used to select the proper configuration is called TAILOR.

The fourth and final task is statistical analysis. Five programs are used to perform this analysis:

- RECODEL
- RECODE2
- FREQUENCIES
- CROSSTABS
- REGRESSIONS.

RECODE1 and RECODE2 change the questionnaire data into a form useable by the other three programs. FREQUENCIES generates frequency distributions for selected survey questions. CROSSTABS produces contingency tables from the data, while REGRESSIONS performs a multiple regression analysis on the data. They are altered by the TAILOR program described above.

The user may wish to save the results produced by the system on magnetic tape. Instructions on how to do this are included in this manual.

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2.1.3 USING THE MANUAL WITH THE SYSTEM

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This manual, and the system as a whole, have been designed to minimize the amount of specialized knowledge necessary. The system is intended to operate in batch mode and in a "hands-off" fashion, with the user merely supplying data to be inserted into previously defined runstreams. Because of this, it should be possible for data processing personnel from the communities involved to run the ASDAS, provided they have the hardware required to interface with the NCC computer.

Users who wish to use timesharing to submit their batch runs will need to have some familiarity with the UNIVAC EXEC 8 operating system. Appendix E describes some common EXEC 8 commands.

The user who wishes a thorough understanding of the LISTEN system will find it useful to review the User's Manuals for the other computer programs associated with LISTEN: the Acoustical Data Reduction and NOIZOP programs, but this is not a prerequisite to running the ASDAS.

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SECTION 3 - SYSTEM OPERATION

3.1 COMMON SYSTEM INITIATION PROCEDURES

Before the ASDAS can be employed, the user must perform the following steps:

- Obtain user identifiers (id's)
- Initiate the system
- Initialize the data file to be used.

3.1.1 DETAILED INITIATION PROCEDURE

3.1.1.1 Obtain id's

The user must begin initiation procedures by obtaining a valid user identification (user-id), account number (acc-num), site identification (site-id), and password from the State and Local Programs Division's data processing coordinator. These identifiers will be used to run jobstreams throughout the system's operation.

The user must also choose a project identifier (proj-id). This identifier must be less than 12 characters long. It is suggested that the name of the city whose data is being analyzed be used as the project identifier. For example, SPOKANE might be used as the proj-id for Spokane, WA data analysis.

3.1.1.2 Initiate the System

To initiate the system, it is necessary to create a number of files for the system's later use. Follow this procedure:

- Refer to the runstream shown in Figure 3-1.
- Substitute the values that apply to the user for the placeholders 'user-id', 'acc-num', 'proj-id' and 'password'
- Punch the runstream on cards
- Submit the cards

Appendix D contains line by line descriptions of every example runstream. Here we only note that at the conclusion of the run the following files will exist on disk:

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<pre>@RUN,R/RT INIT1/25/Ø,acc-num/user-id,proj-id,SØ3Ø,2Ø @PASSWD password @DELETE,C ATIUDINAL. @DELETE,C ATIURINPUT. @DELETE,C TAILOROUTPUT. @DELETE,C TAILOROUTPUT. @DELETE,C SYSFILE1. @DELETE,C SYSFILE2. @DELETE,C SYSFILE2. @DELETE,C REQOUT. @DELETE,C REQESSOUT. @CAT ATTITUDINAL. @CAT GOODDATA. @CAT TAILORINPUT. @CAT TAILOROUTPUT. @CAT YSFILE1. @CAT ZSCORES. @CAT SYSFILE2. @CAT SYSFILE2. @CAT REQUT. @CAT REQUT. @CAT REQUT. @CAT REQUT. @CAT REQUT. @CAT REGRESSOUT. @CAT REGRESSOUT. @CAT REGRESSOUT. @CAT REGRESSOUT.</pre>
Figure 3-1
First System Initiation Runstream

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proj-id*ATTITUDINAL. proj-id*GOODDATA. proj-id*TAILORINPUT. proj-idTAILOROUTPUT. proj-id*VARIANOUTPUT. proj-id*SYSFILE1. proj-id*ZSCORES. pron-id*SYSFILE2. proj-id*FREQOUT. proj-id*XTABSOUT. proj-id*REGRESSOUT.

3.1.1.3 Initialize the Data File

The next step is to transfer the questionnaire data from punched cards to disk storage. The file proj-id*RAWDATA. will contain the data. To make the transfer, use the runstream in Figure 3-2 or Figure 3-3 following this procedure:

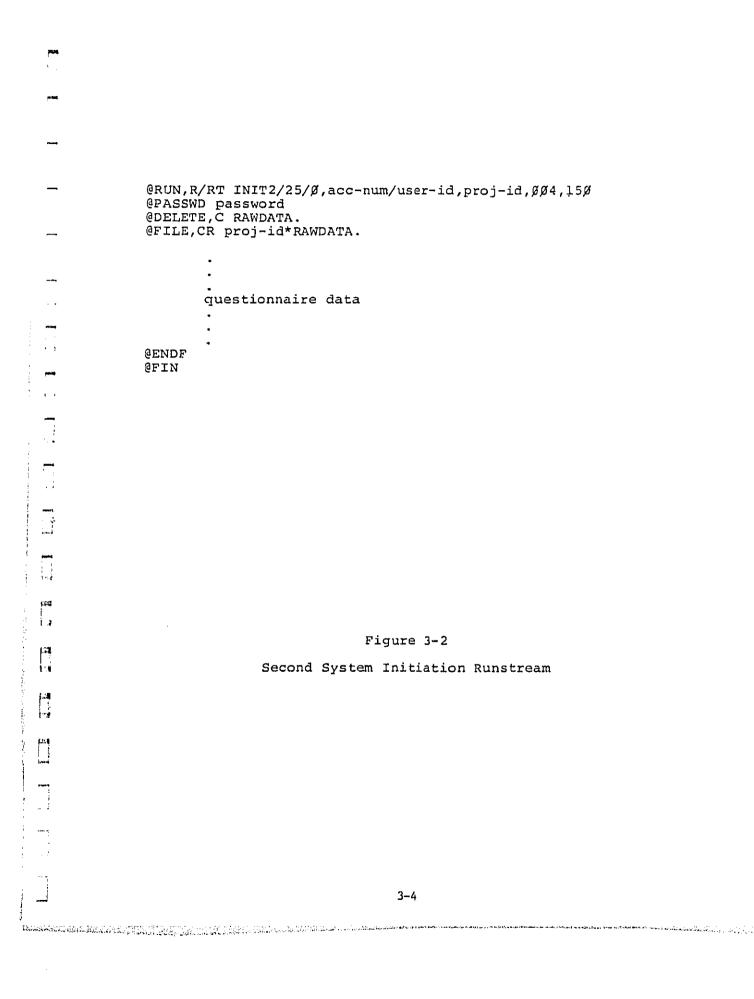
- Punch the runstream on cards, substituting for the placeholders 'user-id', 'acc-num', 'proj-id' and 'password'.
- Place the questionnaire data cards in the runstream at the point indicated in the figure.
- Submit the run. .

If successfully run, there will exist on disk a file named proj-id*RAWDATA. which contains the questionnaire data.

3.1.2 SYSTEM SECURITY

The Attitudinal Survey Data Analysis System (ASDAS) assumes that no attempt will be made to maliciously damage data contained therein. Because of this assumption, system security consists, for the most part, of ensuring against accidental destruction of data or files. This is accomplished by making all files

- Read-only
- Private (wherever possible)



·		
_	@RUN,R/RT INIT2A/25/Ø,acc-num/user-id,proj-id,ØØ4,15Ø	
	@DELETE, C RAWDATA. @DATA, I RAWDATA.,,SENINL	
—	•	
	, questionnaire data	
_		
	@END SENINL @FIN	
!	24 44V	
	For use in the case where the run is to be entered to the system via the	
	(START command from a demand terminal.	
5 r		
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	Figure 3-3	
	rigure 5-5	
Lart	Alternate Second System Initiation Runstream	
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3.1.2.1 <u>Read Only</u>

Read only, as its name suggests, means that a file can be accessed for read operations alone. Writes to read-only files will fail, which provides a measure of data protection.

3.1.2.2 Private

Under EXEC 8 as presently configured at the National Computer Center, designating a file as private prevents a user from accessing it unless he is running under the same project-id as the file's creator. This provides additional protection against accidental damage to the file and some protection against deliberate destruction or misuse. The operating system does <u>not</u> check to see if the accessing user and the creating user have matching user-ids and/or account numbers. This limits the protection that private files provide against a malicious user.

The use of read and write keys was rejected as being too cumbersome and not justified by the data's sensitivity except in the case of the city archive tape (see Section 3.10). A write key was used for that tape to prevent the data from being accidentally destroyed.

3.1.3 GENERAL ERROR AND RECOVERY PROCEDURES

ASDAS is subject to few problems. The most likely are:

- Hardware or operating system failure during a run
- File rollout

A hardware or operating system failure will cause ASDAS to leave files in incomplete and incorrect forms, but this is the only damage it will cause. The runstreams are designed so that all that the user need do to fix the system is simply run the interrupted job again.

File rollout is when a file is moved from disk to a backup tape because of lack of use. If this happens to SPSS or another system processor and a runstream attempts to access this processor, the vague error message 'FILE ERROR' will be generated and the run aborted. The attempt to use the processor is noted by the operating system which will then return the processor to disk. This takes 10 to 30 minutes. The user should resubmit the job after that period has elapsed.

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No other errors are expected to occur. If one does, the user should save the listing of the run in which it was encountered, rerun the job, and, if it occurs a second time, take both listings to a systems programmer for analysis.

The user will note that the system and its runstreams are constructed in such a way that the user may after running the system to a certain point go back to any previous point and resume execution of the system there. This minimizes the effect of any mistake made in running the system since only the part of the system in which the error was made and the parts following it need be rerun.

3.2 CLEAN

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The purpose of CLEAN is to:

- Scan the raw data from the attitudinal survey
- Compare the values found in the data against the valid values for each question.
- Check the data's self-consistency. (If, for example, a respondent who is reported to be 19 years old is also reported to have 21 years of education, CLEAN will detect the error.)
- When an illegal value is found, print a message describing the type of error, the question(s) affected and the card columns that the erroneous data are punched in.

Table 3-1 is a summary of the fields on the various data cards and the values CLEAN will pass without comment.

3.2.1 SECURITY (See subsection 3.1.1)

3.2.2 INITIALIZATION PROCEDURES

Two steps must be taken before CLEAN can be run:

- The file proj-id*RAWDATA. must be made available,
- An initialization card must be prepared.

The file will be available if the second system initialization run has completed successfully.

3-7

Table 3-1 Questionnaire Data Cards: Layouts and Legal Values

FIELD NAME	Cols.	Min.	Max.	Fixed Val.	Additional Constraints
ID NO.*	1-5	00001	01500		Cannot = previous CARD 1 ID #
Card	6-7			01	
Noise Zone*	8-9	01	16		
Area*	10	1	7		
Cluster*	11-13	001	100		
City*	14-16			Community Dependent	
Selection Label	17-18	00	12		
Number of Calls	19	1	9		
Interview Date*	20-21	01	Communit Dependen		
Total Number of Adult Residents	22	1	8		
Respondent Number on List	23	1	8		Must be < or = to ToT. NO. ADULT RESIDENTS
Sex of Respondent	24			1, 2	Must correspond to CARD 4, B5
Age of Respondent	25-26	18	99		Must correspond to CARD 4, Q22
	27-80				Blanks Only
*With flexible data r	anges set	at recomm	ended val	ues.	•
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CARD TWO

FIELD NAME	Cols.	Min.	Max.	Fixed Val.	Additional Constraints
ID No.	1-5	øddor	915pp		Must match CARD 1 ID
Card	6-7			Ø2	
21	8-9	Ø1	90	95, 98, 99	
Q2	10-	1	5	8,9	
Q3 (A-C)	11-12	ØØ	32	98, 99	
	13-14	ł	1		
	15-16				
Q4 (A-C)	17-19	101	111	Ø, 199	
	20-22	201	214	299	
	23-25	3ø1	31Ø	399	
		4ø1	4ø4	499	
		5ø1	506	599	
		601	6ø3	699	
		7ø1	7Ø4	799	
		801	807	899	
		901	9ø6	95Ø, 975 998, 999	
Q5 (A-H)	26,27	1	5	8,9	
	28,29				
	3Ø,31				
	32,33				
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FIELD NAME	Cols.	Min.	Max.	Fixed Val.	Additional Constraints
Q6 (A-K)	34,35	1	5	8,9	
	36,37				
	38,39		,		
	40,41				
	42,43				
	44	•			
Q7	45	1	5	8,9	
Q8	46	1	4	8,9	
Q9	47	l	9		
Q10(A-D)	48,49	1	5	8,9	
	5ø,51				
Q11(A-F)	52,53			Ø,1,8,9	
	54,55		Í		
	56,57				
212	58	1	3	8,9	
Q13(A-E)	59,6Ø	l	5	8,9	
	61,62				
	63				
214	64	l	5	8,9	
215 (A-G)	65,66			0,1,8,9	
	67,68		}		
	69,70				

CARD TWO Continued

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3-10

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~	CARD TWO Continue	eđ				
	FIELD NAME	Cols.	Min.	Mac.	Fixed Val.	Additional Constraints
·	Q15(A-G)(Cont.)	71				
	Q16 (A-C)	72,73			ø,1,8,9	
		74 75-80				
		73-00		-		Blanks Only
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facet tang						
f6 1-10						
find C 7						
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CARD THREE

FIELD NAME	Cols,	Min.	Max.	Fixed Val,	Additional Constraints
ID No.	1-5	¢9991	Ø15ØØ		Must = CARD 1 ID NO.
Card	6-7			¢3	
Q17(A-T)	8,9,19	1	9		
	11,12				
	13,14				
	15,16				
	17,18				
	19,20		4		
	21,22	ĺ	. ([
	23,24	1			
	25,26			l	
	27	[
Q17(U-V)	28,29	99	99	ł	
	30, 31				
Q18(A-F)	32,33			Ø,1,8,9*	
	34,35			8+	
	36,37		[[
Q19	38			1,2,8,9*+	
Q19A (A)	39	9	2	8,9*	If zero then $Ql9$ must = 2. If 1,2 8, or 9 then $Ql9$ must = 1
		1	4+	(
Q19A (B-D)	40,41	۶	2	8,9*	11
-	42			8+	Must = 8 if 'with is indicated

*Without Noise Control Program (CLTPRG=1) +With Noise Control Program (CTLPRG=2)

3-12

HARLINGS HELDER HELDE

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CARD THREE Continued

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FIELD NAME	Cols.	Min.	Max.	Fixed Val.	Additional Constraints
Q29	43	l 1	9		
Q21(A-H)	44,45	1		<i>b</i> ,1,8,9	
	46,47				
	48,49				
	59,51				
	52-80				Blanks Only
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FIELD NAME	Cols.	Min.	Max.	Fixed Val.	Additional Constraints
ID NO.	1-5	00001	Ø1500		Must = CARD 1 ID
Card	6-7		{	D 4	
Q22	8-9	18	99		
Q23	10-11	ØØ	21	98,99	
Q24A	12-13	Øl	p 7	8 0, 98,99	
Q25A	14-15	ØØ	15	98,99	Must = 0' if Q24A = 80, Must not = if Q24A Not = 80
Q26	16-17	рı	1,0	98,99	
Q2 7	18	1	9		
Q28	19	1	4	8,9	
Q29	20-21	ó 1	99		
Time	22-23	±∆.	99		
ві	24			1,2,9	
в2	25	۵	9		
вз	26-28	లేలేలే	999		
В4	29			1,2,9	
в5	ЗØ			1,2,9	
86	31	1	3	9	
	32-80				Blanks Only

3-14

An initialization card is necessary to allow a degree of flexibility in the administration of the survey without modifying CLEAN for each special case.

The first twelve fields of the initiation card, each five columns wide, are used to set the valid value, or range of values, for the community dependent variables found on card one of every case. Table 3-2 shows the format of the initialization card and gives standard values for a number of the card's fields. These standard values are taken from Reference 1, Appendix B. The <u>HI-LO</u> variable naming convention indicates a range of values. The four city codes are fixed values, but may all be different.

The last two fields of the initialization card have values for program control variables entered in them. These variables are:

• MAXERR

CTLPRG

MAXERR fixes the limit for the number of <u>major</u> errors CLEAN can encounter in the data without terminating early. This feature saves the time and paper that would otherwise be wasted if, as is possible, one or two misplaced cards caused the rest of the survey data to appear to be in error.

CTLPRG is a flag that indicates which attitudinal survey was used to produce the data. If CTLPRG=1, the version suited for communities without noise control programs was used. CTLPRG=2 means the survey suited for communities with noise control programs was used.

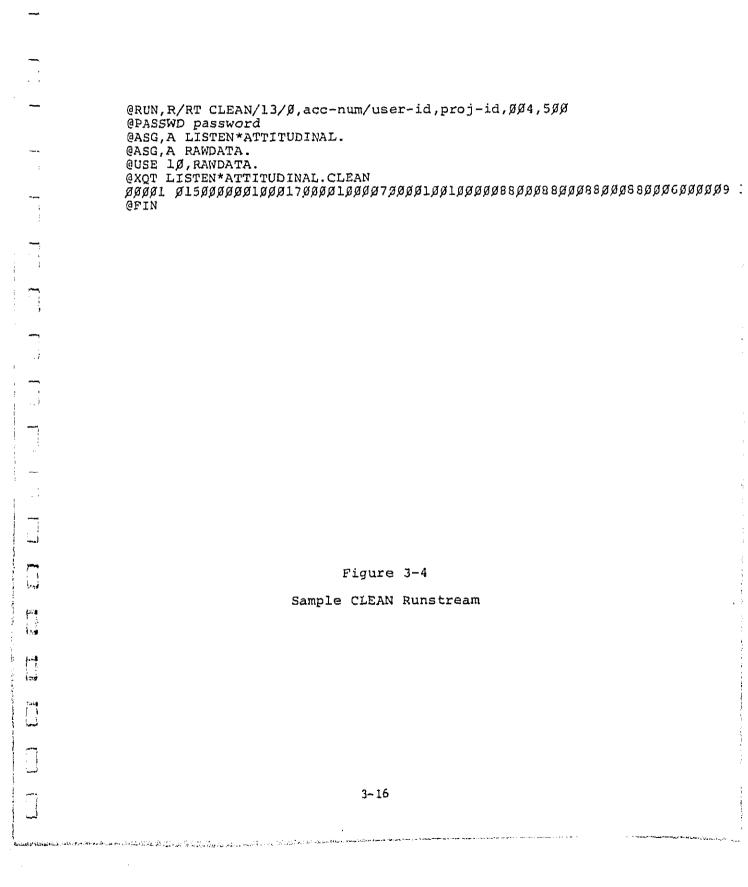
3.2.3 OPERATIONAL PROCEDURES

An example runstream for CLEAN is shown in Figure 3-4. In this runstream, the community dependent variables are all set to their standard values. Values for the city codes CTY1, CTY2, CTY3, and CTY4 of 88, for the maximum interview date of 6 \emptyset and for MAXERR of 9 were chosen arbitrarily. The community is without a noise control program.

User should:

- Submit a similar runstream to run CLEAN on his data, making sure to first,
- Change the values of the community dependent variables and the control flags on the initialization card to the correct ones for the community involved and

3-15



RECT PORV AVAILANS

1 Use the appropriate values for user-id, acc-num, proj-id and password on the GRUN card

The output from the run will consist of a printout of runstream commands, operating system replies to those commands, output from the CLEAN program and billing information. It will automatically be sent to the line printer at the site where the job was entered.

CLEAN's output can take three forms:

- Complete execution, no errors detected;
- Complete execution, some errors detected;
- Incomplete execution, errors detected.

The latter two cases mean that changes are necessary to the data contained in proj-id*RAWDATA. Section 3.2.3.1 will explain how to make these changes. If the run is successful it executes to completion with no errors detected. The user should then submit the runstream shown in Figure 3-5. This runstream copies the file proj-id*RAWDATA. to proj-id*GOODDATA.

3.2.3.1 Correcting Errors in the Data

A CLEAN run that indicates that errors exist in the data file can end in three ways:

- Normally, after all cases are checked;
- Early, after MAXERR has been exceeded;
- Early, if NCARD, the card number punched in columns 6 and 7 of each card, is ever less than or equal to 0 or greater than or equal to 5.

MAXERR is defined in 3.2.2 above and in Table 3-2.

The user's response will be the same in all three cases, to correct the data. They will be corrected by:

- Reviewing CLEAN's output, making note of record number (card, or in a disk file, card image number), column number and correct value for each error detected by CLEAN.
- Punching two cards with the format shown below for each error CLEAN detects.

3-17

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@RUN,R/RT CHANGE/25/Ø,acc-num/user-id,proj-id,SØ3Ø,5Ø @PASSWD password @CHG,Z GOODDATA. @ERS GOODDATA. @ASG,A RAWDATA. @ASG, A GOODDATA. GCOPY RAWDATA., GOODDATA. @FREE GOODDATA. @CHG,V GOODDATA. @FIN

Figure 3-5

Runstream to Copy proj-id*RAWDATA. to proj-id*GOODDATA.

B.A.E 4.7 1..... - $\pm i i$ يقتلم İ. v μ 14 1241 1 - 2 1 - 2 127 liane *ل*ب i and a start and a start of the start of the start of the start and the start of the

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Table 3-2

	·	- <u> ''</u>	
FIELD NAME	COLS	STANDARD VALUE	REMARKS
LOID	1-5	00001	
	6	blank	
HIID	7-11	Ø1500	
LONZ	12-16	ØØØØI	
HINZ	17-21	00017	
LOAR	22-26	00001	
HIAR	27-31	90007	
LOCLUS	32-36	00001	
HICLUS	37-41	00100	
CTYL	42-46		If less than four
CTY2	47-51		city codes are
CTY3	52-56		used, set the extra fields to
CTY3	57-61		one of the codes
MAX INTERVIEW			that is used
DATE	62-66		Community dependent
MAXERR	67-71	QQQQ 9	
	72	blank	
CTLPRGS	73		l=without 2=with
			(a community noise control program)
	74-8ø	blank	
	- -		

THE CLEAN INITIALIZATION CARD

3-19

дана 1 1 *~~*, --------1 [-**___** 2000 1000 1000 120 170 **ب**

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• Placing all such pairs of cards after the

QUS*ER.ED RAWDATA

card in the runstream shown in Figure 3-6.

 Submitting the runstream after substituting for 'user-id', 'acc-num', proj-id' and 'password'.

The format for the error correction cards is:

rec-num

R, col val

Where rec-num is to be replaced by the number of the record in which the error occurred (use the leftmost column for multi-column variables) and val by the correct value of the variable. Multi-column variables must have <u>all</u> their places filled (e.g., a three column variable must have three digits typed). The cards are punched beginning in column 1. Only 1 space is left between col and val.

Figure 3-7 shows the complete process, from the first CLEAN run to error correction to the final CLEAN run to copying proj-id*RAWDATA, into proj-id*GOODDATA.

3.2.3.2 Timing

Roughly 50 seconds of CPU time are required for CLEAN to process the data from 700 questionnaires. The maximum memory CLEAN uses is 13 kWords. The timing for the correction runs is uncertain because it depends upon the number of corrections and where they are made. It is strongly suggested that the corrections be made in order of line number; this saves a significant amount of computer time.

3.2.4 ERROR PROCEDURES

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It is not likely that CLEAN will fail. If it does, it will probably be for one of these reasons:

- An operating system or hardware failure at the NCC;
- System initiation runs 1 and 2 did not run correctly.

The two types of failure should be easily distinguishable.

The user's response to the first kind of failure is to resubmit the run. The second type requires that system initiation runs 1 and 2 be resubmitted and CLEAN submitted following their successful completion.

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Figure 3-6

Sample Edit Runstream

3-21

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◆◆◆ ATTITUDINAL SURVEY DATA CLEANING BEGINS ◆◆◆ PROGRAM WRITTEN BY: DR. RAGU SINGH, CSC LAST EDIT BY: STEVEN G. EAGLESON, CSC, FALLS CHURCH, VA. +++++++VERSION 1.0(0)++++++++ FLEXIBLE DATA RANGES: 1 HIID= 9999 0 HINZ= 30 0 HIAR= 40 LONZ= LOAR= 1 HICLUS= 400 > LOCLUS= 88 99 CITIES= 88 4 MAX INT DATE= 60 CITIES= - 4 99 MAX NO OF ERRORS= 19 WITH COMMUNITY NOISE PROGRAM AFFECTS Q18, Q19 Q19A, Q21 11, CASE NO.= 3, ID NO.= 3411, CARD NO.= 3 ERROR: RECORD NO. = 0841103433 7557677277 7777757000 0888888108 8818111111 1000000000 000000 00000 00000000000 019AA DUT OF RANGE FOR COMMUNITY WITH NOISE PROGRAM: =0 COLUMN 39 15. CASE NO. = 4. ID NO. = 8412, CARD NO. = 3 ERROR: RECORD ND. = 0541203477 7737777477 7777777000 0888888108 8831118110 1000000000 000000 0000 00000000000 Q19AA OUT OF RANGE FOR COMMUNITY WITH NOISE PROGRAM: =0 COLUMN 39 5, ID NO.= 8415, CARD NO.= 3 ERROR: RECORD NO.= 19, CASE NO.= 0841503667 777777677 777777000 0888888108 8851111111 1000000000 000000 0000 0000000000 Q19AA OUT OF RANGE FOR COMMUNITY WITH NOISE PROGRAM: =0 COLUMN 39 RECORD NO.= 23, CASE NO.= 6, ID NO.= 8501, CARD NO.= 3 0850103454 7377767347 7777777000 08888888108 8861111111 1000000000 000000 ERROR: RECORD NO. = 00000 00000000000 019AA OUT OF RANGE FOR COMMUNITY WITH NOISE PROGRAM: =0 COLUMN 39 ERROR: RECORD NO. = 27, CASE NO.≂ 7, ID ND.= 8502, CARD ND.= 3 0850203777 77777777777 777777000 0888888108 8871101110 1000000000 000000 0000 000000000000 019AA OUT OF RANGE FOR COMMUNITY WITH NOISE PROGRAM: =0 COLUMN 39

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8, ID NO.= 8503, CARD NO.= 2 ERROR: RECORD NO. =. 30, CASE ND.= 0850302013 0111121010 0000011145 5348241173 2133336111 1000001111 211500 0000 10000000000 06F DUT DF RANGE: =7 · · COLUMN 39 9, ID NO.= 8506, CARD NO.= 3 35, CASE ND.= ERROR: RECORD NO.= 0850603667 7667777677 777777000 0888888108 8881101111 1000000000 000000 0000 00000000000 Q19AA OUT OF RANGE FOR COMMUNITY WITH NOISE PROGRAM: =0 COLUMN 39 9, ID NO.= 8506, CARD NO.= 4 36, CASE NO.= ERROR: RECORD NO. = 0350604281 4010803120 2252103012 1000000000 000000000 0000000000 000000 0000 000000000000 TOT.NO. ADULT RESIDENTS, COL 22, OF CARD 1 LARGER THAN 029, COLS 20-21, DF CARD 4 IMAGE OF PREVIOUS CARD 1: 0000 0000000000 11, ID NO.= 8508, CARD NO.= 3 ERROR: RECORD NO.= 43, CASE NO.≂ 0350803777 777777777777777777777000 0338888108 8811111111 1000000000 000000 0000 0000000000 019AA OUT OF RANGE FOR COMMUNITY WITH NOISE PROGRAM: =0 COLUMN 39 ERROR: RECORD NO. = 46 CASE ND.= 12, ID NO.= 8601, CARD NO.= 2 0860102085 1903120000 0000011111 1118555555 4544547111 1000011111 111900 0000 1000000000 011 NOT SELF-CONSISTENT. COLUMNS 52-55 COLUMNS 56-57 RECORD ND.= 51, CASE ND.= 13, ID ND.= 8602, CARD ND.= 3 0860203433 4477347437 777777000 0888888108 8851110111 1000000000 000000 ERROR: RECORD NO. = 0000 00000000000 G19AA OUT OF RANGE FOR COMMUNITY WITH NOISE PROGRAM: =0 COLUMN 39 55, CASE ND.= 14, ID NO.= \$603, CARD NO.= 3 ERROR: RECORD NO.= 0860303747 777747767 6774774000 0888888108 8841111910 100000000 000000 Q19AA OUT OF RANGE FOR COMMUNITY WITH NOISE PROGRAM: =0 COLUMN 39

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0360402013 1907031013 0100011431 1188844443 3432413411 4000100331 411201 1010 1000000000 015 NOT SELF-CONSISTENT. COLUMNS 65-70 COLUMN 71 RECORD NO.= 59, CASE NO.= 15, ID NO.= 8604, CARD NO.= 3 0860403424 7777116767 5475754000 0888888108 887111110 1000000000 000000 ERROR: RECORD NO.= 0000 0000000000 Q19AA DUT OF RANGE FOR COMMUNITY WITH NDISE PROGRAM: =0 COLUMN 39 63, CASE NO.= ERROR: RECORD NO.= 16, ID NO.= 8701, CARD NO.= 3 0870103225 7276477567 7777762000 0888888108 8851101101 1000000000 000000 0000 0000000000 019AA OUT OF RANGE FOR COMMUNITY WITH NOISE PROGRAM: =0 COLUMN 39 RECORD NO.= 67, CASE NO.= 17, ID NO.= 8703, CARD NO.= 3 0970303246 6371577747 5475747000 0888888108 8851100101 1000000000 000000 ERROR: RECORD NO. = 0000 0000000000 019AA DUT OF RANGE FOR COMMUNITY WITH NOISE PROGRAM: =0 COLUMN 39 ERROR: RECORD NO.= 68, CASE NO.= 17, ID NO.= 8703, CARD NO.= 4 0370304241 6010702120 1222505011 0000000000 00000000 00000000 000000 B6 BUT DF RANGE: =0 COLUMN 31 RECORD ND.= 75, CASE NO.= 19, ID NO.= 8901, CARD NO.= 3 0890103677 777767767 777765000 0888888108 8851110101 1000000000 000000 ERROR: RECORD ND.= 00000 00000000000 Q19AA OUT OF RANGE FOR COMMUNITY WITH NOISE PROGRAM: =0 COLUMN 39 79, CASE NO.= 207 ID NO.= 8902, CARD NO.= 3 ERROR: RECORD NO.=

15, ID NO.= 8604, CARD ND.= 2

and a second
58, CASE ND.=

0390203244 5377767777 7777747000 0388888108 8870181181 1000000000 000000 00000.00000000000 GISAA DUT DF RANGE FOR COMMUNITY WITH NOISE PROGRAM: =0 COLUMN 39

ERROR: RECORD NO.=

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Fígure

3-7 Sample

Data

Cleaning

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ERROR: RECORD NO.= 80, CASE NO.= 20, ID NO.= 8902, CARD NO.= 4 0890204301 4010699120 4252907012 1000000000 00000000 00000000 000000

0000 00000000000 TOT.NO. ADULT RESIDENTS, COL 22, OF CARD 1 LARGER THAN 029, COLS 20-21,

DF CARD 4 IMAGE OF PREVIOUS CARD 1: 0000 0000000000

21, ID NO.= 3904, CARD ND.= 3

ERROR: RECORD ND. = 83, CASE NO.= 0890403622 7477667766 7777726000 0388888108 8821111000 800000000 000000 0000 0000000000

Q19AA OUT OF RANGE FOR COMMUNITY WITH NOISE PROGRAM: =0

COLUMN 39

ERROR: RECORD NO. =

RECORD NO.= 91, CASE NO.= 23, ID NO.= 9001, CARD NO.= 3 0900103774 7777664777 777777000 0888888108 891111001 0000000000 000000 0000 00000000000

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Q19AA OUT OF RANGE FOR COMMUNITY WITH NOISE PROGRAM: =0 COLUMN 39

♦♦♦♦♦ END-OF-FILE ENCOUNTERED ♦♦♦♦♦ TOTAL CARDS READ = 92

***** FROGRAM ENDS **OFIN**

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•	@RUN,R/RT_EDIT/95/0, acct-no/user-id,VINNIE,003,300 @ASG:A_UACKIE5	
	VASG,A JACKIES. VBRKPT_PRINTS/JACKIES	
	JPHSS0D password	
	SCHG,Z RAWDATA. SASG,A RAWDATA.	
	SUS◆ER.ED RAWDATA.	
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رمد	R.39 8 15	
	R.39 8	
-	19	
-	R,39 8 23	
1	R,39 8	
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:	R.39 8	
	35 R.39 8	
	R.20 03	
<u> </u>	43 R•39 8	
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:	R:39 9	
	55 R#39 8	
	5S	
1	R#71 0	
<u> </u>	59 R.39 8	
•	63	
	R,31 9	
<u> </u>	75 R.39 8	
	80	
	R,20 05 83	
	R,39 8	
	91 R:39 S	
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	Figure 3-7 Sample Data Cleaning	
	Edit Runstream	
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0CHG, Z RAWDATA. FURPUR 27R3A-2 E33 SL73R1 11/08/79 10:45:45 CHANGED!
ØASG∙A RAWDATA. ØUS♦ER.ED RAWDATA.
ED 29B 11/08/79 10:45 (0):F
EDIT 0841103433755767727777777757000088988810888181111111
084110343375576772777777775700008888881888181111111 0841203477773777774777777777000088888810888311181101
08412034777377774777777777000038388818888311181101
08415036677777777677777770000088388810888511111111
084150366777777776777777777000088888818888511111111 08501034547377767347777777700008888881088861111111
08501034547377767347777777770000088888818888611111111
0850203777777777777777777777000088888810398711011101 08502037777777777777777777000088888818888711011101
08503020130111121010000001114553482411732133336111100000111121150000001000 08503020130111121010000001114553482411832133336111100000111121150000001000
085060366776677776777777777000088888810888811011111
08506036677667777677777777000088888818888811011111 0850604281401080312022521030121
0850604281401080312032521030121
0850803777777777777777777777700008888881038911111111 0850803777777777777777777770000888888188881
08601020851903120000000011111111855555545445471111000011111114000000000
086010208519031200000000111111119555555454454711110000101111119000000100 086020343344773474377777777000088898810888511101111
0860203433447734743777777770000888888818888511101111
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-0860402013180703101301000114311188844443343241341140001003314112011010100
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086040342477771167675475754000089888818898711111101 087030424160107021201222505011
0870304241601070212012225050119
089010367777777677677777765000088888810888511101011 089010367777777677677777765000088888818888511101011
0390204301401069912042529070121
0890204301401069912052529070121 08904036227477667766777726000088888810888211110008
03904036227477667766777726000033833818333211110008
09001037747777664777777777777000088888810888111110010 0900103774777766477777777777000088888818888111110010
END EDIT 92 LINES DUTPUT OFREE RAWDATA.
SCHCER COMPANY. SCHCEV PAMDATA.
FURPUR 27R3A-2 E33 SL73R1 11/08/79 10:45:57 CHANGED:
DBRKPT PRINTS

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3-27

DASG∙A LISTEN•ATTITUDINAL. DASG∙A RAMDATA. DUSE 10•RAMDATA. DUSE 10•RAMDATA. DKOT LISTEN•ATTITUDINAL.CLEAN

◆◆◆ ATTITUDINAL SURVEY DATA CLEANING BEGINS ◆◆◆ PROGRAM WRITTEN BY: DF. RAGU SINGH, CSC LAST EDIT BY: STEVEN G. EAGLESDN, CSC, FALLS CHURCH, VA. *******VERSION 1.0(0) *********

FLEXIBLE DATA RANGES: 1 HIID= 9999 0 HINZ= 50 L01D= LDM2= 15 LOAR= 0 HIAP= 1 HICLUS≈ L∐CLUS≍ 400 CITIES= 99 33 - 4 88 MAX INT DATE= 60MAX NO OF ERRORS= 90

WITH COMMUNITY HOISE PROGRAM AFFECTS 018, 019 0194, 021

••••• PROSEMM ENDS •••••••

9FIN

3-28

DECT CORV 41444

**Pra** DRUN, R/RT_EDIT/35/0, acct-no/user-id *VINMIE, 003, 300 DASSIA JACKIES. DERNET PRIMISCUACKIES DPHSSMD password DOHG,Z PHMDATH. анастн кнашатн. ⊋US•EP.ED SAWDATA. 8B 8,39 8 57 R:39 8 79 R.39 8 EXIT . ست PERSE RAWDATA. SCHG.V RAWDATA. DERKET PRINTS DEIN ◆ @PASSWD STATEMENT IGNORED ◆◆
 ØCHG*Z RAWDATA.
 FURPUR 27R3A+2
 EG3 3L73R1 11/ CHANGED: E33 3L7381 11/08/79 11:35:20 AASS∢A RAMUHIA. AUS≁ER.ED PAWDATA. ED 298 11/08/79 11:35 (0):F EDIT -----1,1 END EDIT 92 LINES DUTPUT OFREE RANDATA. ..... 1. SCHG, V RAWDATA. FURPUR 27R3A-2 CHANGED: E33 SL73R1 11/03/79 11:35:30 juli. **JBRKPT PRINTS** 1.4 i un 1.... بتحر L., ----Figure 3-7 Sample Data Cleaning Edit Runstream and Edit Run ."] (continued) 3-29 المراجع المراجع المراجع المراجع المراجع المراجع والمحافظ ومعاولة والمحافظ 
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	PROBRAM MATITEN BY: DR. RAGU SINGH, CBC Last Edit by: Steven G. Eagleson, CBC, Falls Church, Ma.	
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	Figure 3-7 Sample Data Cleaning	
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# 3.2.5 CONSTRAINTS/LIMITATIONS

CLEAN has two types of limitations;

- Those inherent in the type of data verification CLEAN is designed to perform
- Those created by the operating system

The first type of limitation determines the type of data errors CLEAN detects. It detects values for a variable that are either illegal for the variable to assume or are inconsistent with the values of some similar variable.

An example in this survey is question Bl, sex of respondent. The legal values for this variable are 1,2,8,9. If 7 is punched on the card, it is obviously a mistake. CLEAN will notice this and warn the user.

CLEAN will also notice if the sex reported by question B1 and that reported by question A3C are different. If they are, this again is a mistake.

What CLEAN will not reveal is the case where both answers are consistent but wrong, e.g., where the number entered for both B2 and A3C is 1, meaning male, but the respondent is a woman. Nor can it determine which of two inconsistent responses is correct. The CLEAN program is no substitute for careful coding and keypunching.

Operating system limitations affect the way data is handled and therefore also affect the types of errors detectable by CLEAN. First, the operating system considers blanks to be equivalent to  $\emptyset$ 's. So, if a blank column is read by CLEAN, it proceeds exactly as if it had read a  $\emptyset$ . This should cause few problems since, for most variables, zero is not a legal value and the error will be caught. Second, the read method used by CLEAN causes the operating system to change all the non-numeric characters to  $\emptyset$ 's. This change is accompanied by an error message, which will alert the user that an error has occurred and that the data must be changed.

#### 3.2.6 DATA BASE

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CLEAN uses one file as a data base: proj-id*RAWDATA. The file is used by CLEAN as input and is modified later by the editing runstream described in Section 3.2.3.1 to correct any errors discovered by CLEAN.

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#### 3.2.7 CONTROL LANGUAGE None.

3.2.8 INPUT

CLEAN takes input from two sources. The first is the proj-id*RAWDATA.file that is created at initialization time (see Section 3.1 and Figure 3-2). The format of the survey data in this file is shown in Table 3-1. It takes four records to describe the information resulting from one survey questionnaire. This is referred to as a 'case'.

CLEAN's second source of input is the card reader. CLEAN reads the initialization card described in Section 3.2.2 from this device.

3.2.9 OUTPUT

CLEAN produces one form of output: a list of error messages that is printed on the line printer at the site where the job has been submitted. A listing of these error messages can be found in Appendix C.

Most of CLEAN's messages are self-explanatory. A few may be difficult to interpret at first. The following paragraphs should clarify the troublesome ones:

- Q11(A-F), card 2, columns 52-57. Given that any of the parts A-D of this question is 1 then E and F must be zero. If E or F is 1 then A-D must be zero. E and F cannot both be 1.
- Q15(A-G), card 2, columns 65-71. If there is a 1 response for any part A-F then G must be zero. If G is 1 then A-F should be zero.

The treatment of the answers to questions 18 through 19A is complicated by the survey changes. If CTLPRG=1 for the CLEAN initialization (which indicates there is no noise control program in the community being dealt with) then the requirements are:

- Q18(A-F), card 3, columns 32-37. If there is a 1 response for A-E then F must be zero. If F is 1, then A-E must be zero.
- Q19, Q19A(A-D), card 3, columns 38, 39-42. If Q19=1, then Q19A(A-D) must be 1,2,8 or 9. If Q19=2 then Q19A(A-D) must be zero.

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For CTLPRG=2, i.e., there is a noise control program, then the requirements are:

- Q18(A-F), card 3, columns 32-37. Q18(A-F) must all be coded as 8.
- Q19, Q19A(A-D), card 3, columns 38,39-42.
- Q19A(B-D) must all be coded 8.
  - If Q19=1, then Q19AA must be 1,2,3,4,8 or 9. If Q19=2, then Q19AA must be 8.

The following are independent of CTLPRG:

- Q24A and Q25A, card 4, columns 12-13, 14-15.
  - If Q24A is 80, then Q25A must be zero.
  - If Q24A is not 80, then Q25A cannot be zero.

## 3.3 VARIANCE

VARIANCE calculates a number of statistics for certain attitudinal survey variables. The variables for which it calculates statistics are shown in Figure 3-8. The statistics it calculates are: mean, mean squared error, the standard error, confidence intervals and the coefficient of variation. These statistics give the user an idea as to how faithfully the survey's results reflect the feelings of the community as a whole.

3.3.1 SECURITY (See Section 3.1.1)

3.3.2 INITIATION PROCEDURES

The files proj-id*GOODDATA. and proj-id*VARIANOUTPUT., must be available. If the system has run correctly to this point, they will be.

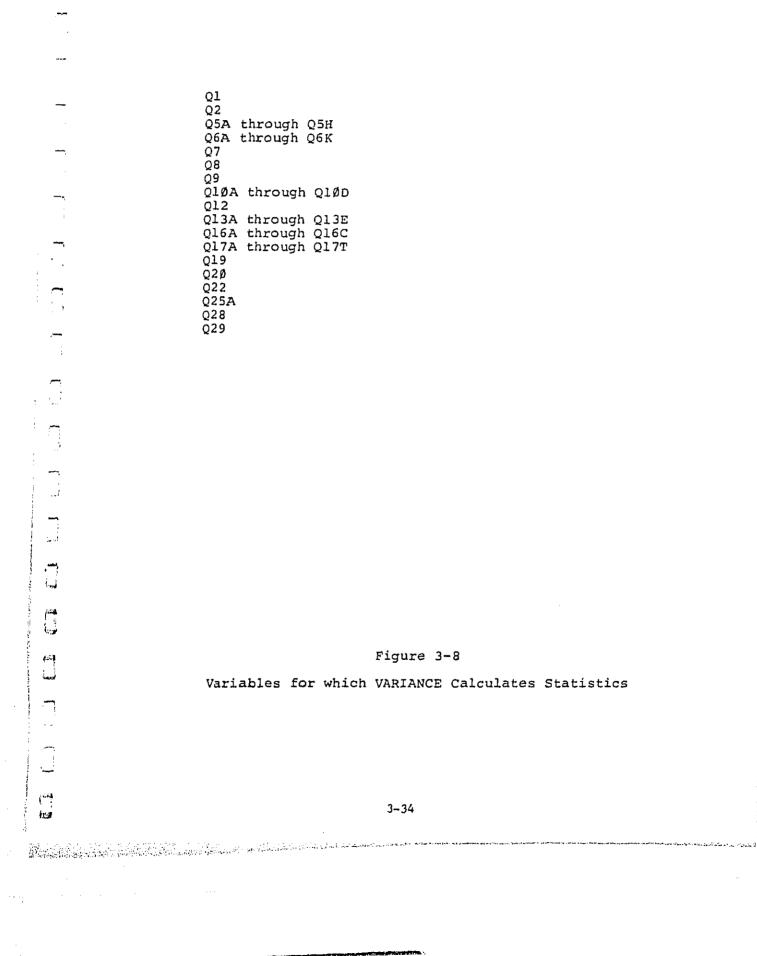
3.3.3 OPERATION PROCEDURES

A runstream for running VARIANCE is shown in Figure 3-9. The user should substitute the values that apply to him for the parameters user-id, acc-num, proj-id, password, and site-id. The runstream should be punched onto cards and submitted from the user's remote batch station.

The MOS referred to in the figure is the community's Measure of Size. It is the total number of households in the community and is calculated before the administration of the survey (see Chapter 3, Reference 1, Appendix B). The user should punch the value for his community, starting in column 1, as a five digit number, adding any leading zeros necessary to make it five digits.

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@RUN,R/RT VARIAN/64/Ø,acc-num/user-id,proj-id,995,59 @PASSWD password @CHG,Z VARIANOUTPUT. @ERS VARIANOUTPUT. @ASG,A VARIANOUTPUT. @ASG,A LISTEN*ATTITUDINAL. @ASG,A GOODATA. @USE 10,GOODDATA. @BRKPT PRINT\$/VARIANOUTPUT @XQT LISTEN*ATTITUDINAL.VARIANCE @BRKPT PRINT\$ @FREE VARIANOUTPUT. @CHG,V VARIANOUTPUT. @SYM,U VARIANOUTPUT., site-id @FIN

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# Figure 3-9

# Sample VARIANCE Runstream

#### 3.3.4 ERROR AND RECOVERY PROCEDURES (See Subsection 3.1.2)

#### 3.3.5 CONSTRAINTS/LIMITATIONS

VARIANCE's most severe limitation is the fact that it is unable to tell good data from bad. For this reason, it is essential that the data cleaning step be performed correctly. Otherwise, the statistics produced by VARIANCE will be meaningless.

Data from up to 760 respondents can be processed by VARIANCE. This is 60 cases above the 700 recommended for the survey. This should provide plenty of extra space for zealous survey administrators.

#### 3.3.6 DATA BASE

VARIANCE references the file proj-id*GOODDATA. It uses the data in this file to calculate its statistics. It does not alter the file.

3.3.7 CONTROL LANGUAGE None.

3.3.8 INPUT

VARIANCE has two sources of input:

- The disk file proj-id*GOODDATA.
- The runstream

Proj-id*GOODDATA. is created after a successful run of CLEAN by copying proj-id*RAWDATA. as described in 3.2.3 above. It contains the data for which VARIANCE will calculate statistics. The format and content of proj-id*RAWDATA. are described in 3.2.8.

The runstream gives VARIANCE the measure of size (MOS) for the community. It is on a single card in FORTRAN 15 format. See 3.3.3 above for information on its significance.

3.3.9 OUTPUT

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VARIANCE produces two forms of output: a printer listing of the statistics produced and a disk file which contains a copy of this listing for later use. An example of this output can be seen in Figure  $3-1\emptyset$ .

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VAR I ABLE NAME	MEAN	MEAN SO. Error	STANDARD ERROR		IDENCE ERVAL	COEFFICIENT OF VARIATION	NUMBER OF CLUSTERS	NUMBER OF Data Points
92	2.250	.2906	.5391	3.307	1.193	.240	4.	4.
Q6A	2.250	.2906	•5391	3.307	1.193	.240	4.	4.
668	2.250	.2906	•5391	3.307	1.193	.240	4.	4.
060	2.250	.2906	<b>-</b> 5391	3.307	1.193	.240	4.	4.
G6D	2.250	.2906	.5391	3.307	1.193	.240	4.	4.
34Q	2.250	-2906	•5391	3.307	1.193	•240	4.	4.
06F	2.250	.2906	.5391	3,.307	1.193	.240	4.	4 .
066	2.250	.2906	+5391	3.307	1.193	• 240	4.	4 .
06H	2.250	.2906	.5391	3.307	1.193	•240	4.	4.
C61	2.250	.2906	.5391	3.307	1.193	.240	4.	4.
06J	2.250	.2906	.5391	3.307	1.193	.240	4.	4.
Q6K	2.250	.2906	•5391	3.307	1.193	.240	4.	4.

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Figure 3-10 Sample of VARIANCE Output

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### 3.4 TAILOR

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TAILOR is included in the ASDAS to perform three functions:

- To generate the correct SPSS programs for local conditions;
- To allow the addition of acoustical monitoring data to the SPSS program RECODE2;
- To permit local additions to these programs.

These are necessary because different localities will require slightly different treatment of the attitudinal data they have collected, depending upon whether or not they have a noise control program and whether or not they have completed the acoustical survey.

All three functions are controlled by the data card that occurs directly after the @XQT ATTITUDINAL.TAILOR card in the runstream. TAILOR reads this card to determine if a noise control program exists and if acoustical monitoring data is available.

This information is coded as two numbers, or flags, punched on the card in FORTRAN 215 format. The first flag, in columns 1-5, refers to the availability of acoustical data. If the surveyed community has been acoustically surveyed, the flag is set to a non-zero value to indicate this. It is  $\emptyset$  or left blank, otherwise. The second flag, in columns 6-1 $\emptyset$ , is set to a non-zero number if the community has a noise control program. If there is no such program, it is  $\emptyset$  or blank. The flag card must always be provided even if the community has no noise control program and has not performed the acoustical survey. An example of this card is shown on line 15 of Figures 3-11 to 3-16.

If no acoustical monitoring program exists, all that the user need do is run TAILOR on each of the SPSS elements in LISTEN*ATTITUDINAL.: RECODE1, LABELS, RECODE2, FREQUENCIES, CROSSTABS, and REGRESSIONS.

If an acoustical monitoring program does exist, it will be necessary to make use of TAILOR's second function. This function adds program statements to the SPSS program RECODE2. These statements are punched by the user according to the format given on page 4-53 of reference 1,**

**Note: As described by Figure 3-13a, the format of Reference 1 is not compatible with the SPSS version used at NCC. The RECODE of DBLEVEL should be broken up into several (3 or 4) smaller multi-line statements instead of 1 large statement.

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@RUN, R/RT TALR1/35/Ø, acc-num/user-id, proj-id, ØØ3, 3Ø @PASSWD password @CHG,Z ATTITUDINAL. @ASG,A LISTEN*ATTITUDINAL. @ASG,A ATTITUDINAL. @ASG, A TAILORINPUT. @ASG, A TAILOROUTPUT. @USE 4, TAILORINPUT. **@USE 7, TAILOROUTPUT.** @US*ER.ED,I TAILORINPUT. (leave blank card here) ADD LISTEN*ATTITUDINAL.RECODE1 EXIT **@XQT LISTEN*ATTITUDINAL.TAILOR** ¢_ 1 @EOF @COPY, I TAILOROUTPUT., ATTITUDINAL. RECODE1 @FREE ATTITUDINAL. @CHG, V ATTITUDINAL. @FIN

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Figure 3-11

Runstream to run TAILOR on RECODE1

(Community has Noise Control But no Acoustical Monitoring)

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@RUN, R/RT TALR2/35/0, acc-num/user-id, proj-id, 003, 30 @PASSWD password @CHG,Z ATTITUDINAL. @ASG, A LISTEN*ATTITUDINAL. @ASG, A ATTITUDINAL. @ASG, A TAILORINPUT. @ASG, A TAILOROUTPUT. QUSE 4, TAILORINPUT. QUSE 7, TAILOROUTPUT. CUS*ER.ED, I TAILORINPUT. (leave blank card here) ADD LISTEN*ATTITUDINAL.LABELS EXIT @XQT LISTEN*ATTITUDINAL.TAILOR Ø l @EOF **@COPY,I TAILOROUTPUT., ATTITUDINAL.LABELS** @FREE ATTITUDINAL. @CHG, V ATTITUDINAL. @FIN

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Figure 3-12

Runstream to run TAILOR on LABELS

(Community has Noise Control But no Acoustical Monitoring)

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@RUN,R/RT TALR3/35/Ø,acc-num/user-id,proj-id,003,30 @PASSWD password @CHG,Z ATTITUDINAL. @ASG,A LISTEN*ATTITUDINAL. @ASG,A ATTITUDINAL. @ASG, A TAILORINPUT. @ASG,A TAILOROUTPUT. QUSE 4, TAILORINPUT. QUSE 7, TAILOROUTPUT. GUS*ER.ED,I TAILORINPUT. (leave blank card here) ADD LISTEN*ATTITUDINAL.RECODE2 EXIT @XQT LISTEN*ATTITUDINAL.TAILOR ØEOF 1 @COPY, I TAILOROUTPUT., ATTITUDINAL.RECODE2 @FREE ATTITUDINAL. @CHG,V ATTITUDINAL. @FIN

Figure 3-13

Runstream to Run TAILOR on RECODE2

(Community has Noise Control But No Acoustical Monitoring)

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@RUN, R/RT TALR3/35/Ø, acc-num/user-id, proj-id, ØØ3, 3Ø @PASSWD password @CHG,Z ATTITUDINAL. @ASG,A LISTEN*ATTITUDINAL. @ASG, A ATTITUDINAL. @ASG, A TAILORINPUT. @ASG, A TAILOROUTPUT. **@USE 4,TAILORINPUT. DUSE** 7, TAILOROUTPUT. QUS*ER.ED,I TAILORINPUT. (leave blank card here) ADD LISTEN*ATTITUDINAL.RECODE2 EXIT **@XQT LISTEN*ATTITUDINAL.TAILOR** 1 1 COMPUTE DBLEVEL=CL RECODE DBLEVEL (1=55) (2=6Ø) (3=8Ø) (4=63) . . . (37=92) (38=93)  $(39=5\emptyset)$   $(4\emptyset=73)$  (41=62) . . . DBLEVEL (46=95) (47=79) (48=61) (49=50) . . . RECODE (78=50) (79=66) (8Ø=53) (81=95) (82=58) . . . DBLEVEL (86=35) (87=44) (88=45) (89=46) . . . RECODE . (96=53) (97=54) (98=55) (99=56) (100=60). . . @EOF @COPY,I TAILOROUTPUT.,ATTITUDINAL.RECODE2 **@FREE ATTITUDINAL.** @CHG, V ATTITUDINAL. @FIN Figure 3-13a Runstream to run TAILOR on RECODE2 (Community has Noise Control and Acoustical Monitoring) **NOTE: SPSS version used at NCC requires RECODES to be broken up into several small statements not 1 large multi-line statement, as described in reference 1, pg 4-53, Appendix B. 3-42 

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@RUN,R/RT TALR4/35/Ø,acc-num/user-id,proj-id,993,39 **@PASSWD** password @CHG,Z ATTITUDINAL. @ASG,A LISTEN*ATTITUDINAL. @ASG,A ATTITUDINAL. @ASG,A TAILORINPUT. @ASG,A TAILOROUTPUT. QUSE 4, TAILORINPUT. @USE 7, TAILOROUTPUT. @US*ER.ED,I TAILORINPUT. (leave blank card here) ADD LISTEN*ATTITUDINAL.FREQUENCIES EXIT @XQT LISTEN*ATTITUDINAL.TAILOR ø 1 **@EOF** @COPY, I TAILOROUTPUT., ATTITUDINAL. FREQUENCIES @FREE ATTITUDINAL. @CHG,V ATTITUDINAL. **@FIN** 

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Figure 3-14

Runstream to Run TAILOR on FREQUENCIES (Community has Noise Control But no Acoustical Monitoring)

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<pre>@RUN,R/RT TALR5/35/\$,acc-num/user-id,proj-id,\$\$3,3\$ @PASSWD password @CHG,Z ATTITUDINAL. @ASG,A ATITUDINAL. @ASG,A TAILORINPUT. @ASG,A TAILOROUTPUT. @USE 4,TAILOROUTPUT. @USE 7,TAILOROUTPUT. (leave blank card here) ADD LISTEN*ATTITUDINAL.CROSSTABS EXIT @XQT LISTEN*ATTITUDINAL.TAILOR</pre>
Figure 3-15

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Runstream to Run TAILOR on CROSSTABS (Community has Noise Control But No Acoustical Monitoring)

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@RUN,R/RT TALR6/35/Ø,acc-num/user-id,proj-id,ØØ3,3Ø @PASSWD password @CHG,Z ATTITUDINAL. @ASG,A LISTEN*ATTITUDINAL. @ASG,A ATTITUDINAL. @ASG,A TAILORINPUT. @ASG, A TAILOROUTPUT. QUSE 4, TAILORINPUT. @USE 7, TAILOROUTPUT. QUS*ER.ED,I TAILORINPUT. (leave blank card here) ADD LISTEN*ATTITUDINAL.REGRESSIONS EXIT @XQT LISTEN*ATTITUDINAL.TAILOR ø 1 @EOF @COPY,I TAILOROUTPUT.,ATTITUDINAL.REGRESSIONS @FREE ATTITUDINAL. @CHG,V ATTITUDINAL. @FIN

# Figure 3-16

Runstream to Run TAILOR on REGRESSIONS

(Community has Noise Control But No Acoustical Monitoring)

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Appendix B. They are placed directly after the control card described above, but <u>only</u> when TAILOR is run on LISTEN*ATTITUDINAL.RECODE2. The other SPSS programs are treated exactly as before.

TAILOR's third function is to add any statements to the SPSS programs that may be helpful for a particular city. The way in which they are added is very similar to the way statements are added to RECODE2. Before the user attempts to take advantage of this capability of TAILOR it is suggested that he thoroughly study the programs that will be affected by it.

3.4.1 SECURITY (See Section 3.1.1)

3.4.2 INITIATION PROCEDURES

Before TAILOR is run:

- The cards to be used as data must be punched and placed in the runstreams after the @XQT LISTEN*ATTITUDINAL.TAILOR card.
- The card with the flags on it will go first followed, in correct order, by the cards which the user wishes to insert into the program, if any.
- If there has been no acoustical survey, and the community does not wish to modify the programs, then the flag card will be the only data card following the @XQT card.
- The four files LISTEN*ATTITUDINAL., proj-id*ATTITUDINAL., proj-id*TAILORINPUT., and proj-id*TAILOROUTPUT., must all be available. The first must contain the system library and the latter three should be empty (as they will be when created by the first system initiation runstream).

3.4.3 OPERATIONAL PROCEDURES

TAILOR must be run for each of the six SPSS elements in LISTEN*ATTITUDINAL.: RECODE1 and LABELS, RECODE2, FREQUENCIES, CROSSTABS and REGRESSIONS. The runstreams shown in Figures 3-11 through 3-16 should be modified by replacing the user-id, acc-num, proj-id and password. The flag card should also be replaced with a flag card containing the appropriate values as described in Section 3.4.

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If acoustical survey data is to be used, the runstream in Figure 3-13a should be submitted when TAILOR is run on the RECODE2 program instead of that in Figure 3-13. Remember to include the additional data cards described in Section 3.4 directly after the card that contains the flags.

Optionally, additional data cards may be included in the runs for RECODEL, LABELS, FREQUENCIES, CROSSTABS, and REGRESSIONS in order to add statements to produce special statistics for a community. It is suggested that the user be certain he knows what he is doing before attempting this.

3.4.4 ERROR PROCEDURES

We altered the second 
This section does not discuss errors that may be created when the user attempts to modify the SPSS programs by taking advantage of TAILOR's third function. It is presumed that a user sophisticated enough to modify the programs is also sophisticated enough to debug them.

As with all the other programs, TAILOR is vulnerable to operating system and hardware failures. And, as with all the other programs, recovery from this type of failure is made by simply resubmitting the run which failed.

Unlike the other programs, TAILOR is very vulnerable to user mistakes. This is simply because there is more for the user to do in running TAILOR and therefore more opportunity for the user to make a mistake.

User mistakes can be divided into two categories: those that show up immediately, and those that remain hidden until the SPSS programs are run. Mistakes in coding the first data card, the one containing the flags, are in the first category. The user may have coded a letter instead of a number for the value of one of the flags. In this case, an error message will be printed by the operating system, the value of that flag will be set to  $\emptyset$  and TAILOR allowed to run to completion. The user should retype this card and resubmit the run if this happens.

The second kind of error occurs if the user codes the wrong values for the flags. To make sure that this has not happened, he should look at the output produced by each run. TAILOR prints out the values of each flag and the conditions implied by their values (see Figure 3-17). If these do not correspond to the values and conditions that should have been input, change the first data card so it contains the correct values and resubmit the run which was in error.

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	DASG+A LISTEN+AITITUDINAL. DASG+A TAILDRINPUT. DASG+A TAILDROUTPUT. DUSE 4+TAILDRINPUT. DUSE 7+TAILDROUTPUT. DUSE 7+TAILDROUTPUT. DUSE 7+TAILDROUTPUT. +++TAILDR PROGRAM BEGINS+++
	FLAG SETTINGS INDICATE:
_	COMMUNITY HAS AN ACQUSTICAL MONITORING PROGRAM COMMUNITY HAS A MOISE CONTROL PROGRAM
	+++TAILOR ENDS+++
1949 1	
P24	
1	
	Figure 3-17
	Sample Output from TAILOR Program
(-301) 1733	3-48
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Mistakes made in the cards following the TAILOR runstream belong in the second category. They remain hidden until the SPSS programs are run. They reveal themselves in two ways. First, the SPSS program RECODE2 may refuse to run. If so, the SPSS processor at NCC will produce an error message of the form shown in Figure 3-18. If this occurs, the user must go back and rerun TAILOR for RECODE2 after having corrected the mistake in the input cards. The mistake will probably be an obvious one such as a misspelling. Then the user should continue with the rest of the system starting with RECODE2. It is unnecessary to run RECODE1 a second time.

The second way a mistake may reveal itself is more subtle and more destructive. The program may run, but be wrong. The only way to detect this is for the user to look at the output of the RECODE2 SPSS program and check to make sure that the recodes that were performed on DBLEVEL were the ones he desired. In other words, the user should look to see that the cards used as input to TAILOR when it was run on RECODE2 are duplicated in the output of RECODE2. If they are not, the input cards for TAILOR must be corrected, the TAILOR run for RECODE2 must be resubmitted, and then the rest of the system must be continued, starting by running RECODE2 again.

This type of mistake may also be detected by looking at the output of the FREQUENCIES program. If invalid decibel levels appear, then the cards input to TAILOR when it was run on RECODE2 were wrong. This will not, however, reveal recodes that are incorrect but result in valid decibel levels.

3.4.5 DATA BASE None.

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3.4.6 CONTROL LANGUAGE None.

3.4.7 INPUT

TAILOR has two sources of input: the file proj-id*TAILORINPUT. and the runstream (i.e., the logical card reader). Every time TAILOR is run, an element from LISTEN*ATTITUDINAL. is copied into proj-id*TAILORINPUT.

It is necessary to make this copy instead of operating directly on LISTEN*ATTITUDINAL. because of the way the EXEC 8 operating system

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SRUN+R/RT TALR3/35/0+acct-no/user-id +VINNIE,003,30 SPASSMD password SCH6,2 ATTITUDINAL. SASS.A LISTEN.ATTITUDINAL. SASSIA ATTITUDINAL. DASS:A TAILORINPUT. JASG, A TAILDROUTPUT. SUSE 4. THILDRINPUT. SUSE 7, TAILOROUTPUT. DUS♦ER.ED,I TAILORINPUT. ADD LISTEN+ATTITUDINAL.RECODE2 EXIT SXQT LISTEN♦ATTITUDINAL.TAILOR 1 Ů COMPUTE DBLEVEL=CL RECODE DBLEVEL (1=30) (2=32) (3=34) (4=36) (5=38) (6=40) (7=41) (8=43) (9=45) (10=47) (11=49) (12=50) (13=51) (14=54) (15=56) (16=58) (17=60) (18=61)  $\begin{array}{l} (10+4) \times (11+4) \times (12+5) \times (12+5$ RECODE (54=111) (55=112) (56=113) (57=114) (58=115) (59=116) (60=117) (61=118) (62=119) (63=120) (64=121) (65=122) (66=34) (67=124) (68=125) (69=126) (70=127) (71=128) (72=129) (73=55) (74=45) (75=55) (76=75) (77=81) (78=50) (79=66) (80=53) (81=95) (82=55) (83=81) (84=62) (85=45) DBLEVEL (86=35) (87=44) (88=45) (89=46) (90=47) (91=48) (92=49) RECODE (93=50) (94=5) (95=52) (96=53) (97=54) (98=55) (99=56) <100≈60) **PEDF** SCOPY,I TAILOROUTPUT.,ATTITUDINHL.RECODE2 SPREE ATTITUDINAL.

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Figure 3-18 TAILOR Insertion of Acoustical Data into RECODE2 (Note circled error, results next page)

COMMENT SINCE WE HAVE ACCUSTICAL MEASUREMENTS, WE USE THEM TO CREATE -DELEVEL-. COMPUTE DBLEVEL=CL RECODE DBLEVEL (1=30) (2=32) (3=34) (4=36) (5=38) (6=40) ( 7=41> (8=43) (9=45) (10=47) (11=49) (12=50) (13=51) (14=54) (15=56) (16 =58) (17=60) (18=61) (19=63) (20=65) (21=67) (22=69) (23=70) (24=72) (25 =74) (26=76) (27=78) (28=79) (29=80) (30=81) (31=83) (32=85) (33=87) (34 =89) (35=90) (36=91) (37=92) (38=93) (39=94) (40=95)) 41=96) (42=97) (43 =99> (44=100) (45=101) ERROR NUMBER... 201. PROCESSING CEASES, ERROR SCAN CONTINUES. EPA PROTOTYPE: VARIABLE FILE GENERATOR PART 2 11/08/79 PHGE e, RECODE DBLEVEL (46=103) (47=104) (49=105) (49=106) (50=1 07) (51=108) (52=109) (53 = 110)(54=111) (55=112) (56=113) (57=114) (58=115) (59=1 16) (60=117) (61=118) (62=119) (63=120) (64=121) (65=122) (66=84) (67=12 4) (68=125) (69=126) (70=127) (71=128) (72=129) (73=65) (74=45) (75=55) (76=75) (77=81) (78=50) (79=66) (80=53) (81=95) (82=58) (83=81) (84 =62) (85=45) RECODE DBLEVEL (S6=35) (87=44) (88=45) (89=46) (90=47) (9 1=48) (92=49) (93=50) (94=5) (95=52) (96=53) (97=54) (98=55) (99=56) (1.00=6.0)COMMENT

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CREATE -DBLVLSOR- FROM -DBLEVEL-

DBLVLSQR=DBLEVEL+DBLEVEL

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differentiates between program and data files. Each of the six times TAILOR is run, a different element of LISTEN*ATTITUDINAL. is copied into proj-id*TAILORINPUT. The elements to be used are: RECODEL, LABELS, RECODE2, FREQUENCIES, CROSSTABS, and REGRESSIONS.

The runstream contains the data cards that control TAILOR: the flag card and the modification cards, both described in Subsections 3.4 and 3.4.2 above. These cards follow the @XQT LISTEN*ATTITUDINAL.TAILOR card in the runstream and precede the next control card (i.e., the next card beginning with an @ sign).

3.4.8 OUTPUT

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TAILOR produces two forms of output for each run it makes. The first is an element in the file proj-id*ATTITUDINAL. The elements TAILOR creates are: RECODEL, LABELS, RECODE2, FREQUENCIES, CROSSTABS, and REGRESSIONS.

The second is a printout which tells the user the values of the flags TAILOR has read in. (See Figure 3-17).

3-52

And the second 
## 3.5 RECODEL

RECODEL is an SPSS program which takes the verified data produced by the CLEAN program and performs a number of manipulations on it. These manipulations make the data suitable for input to the series of statistical analysis programs that follow RECODE2. The details of the manipulations are not important to the user. They may be found in the program documentation.

3.5.1 SECURITY (See subsection 3.1.1)

3.5.2 INITIATION PROCEDURES

Before running RECODEL it is necessary to have run CLEAN and TAILOR as described in Sections 3.2 and 3.4 above. The files proj-id*GOODDATA., proj-id*SYSFILE1. and proj-id*ZSCORES. must be available.

3.5.3 OPERATIONAL PROCEDURE

To run RECODEL the user should submit the runstream shown in Figure 3-19.

3.5.4 ERROR AND RECOVERY PROCEDURES (See subsection 3.1.2)

3.5.5 CONSTRAINTS/LIMITATIONS

RECODEL's only limitation is the number of cases of questionnaire data its output files (proj-id*SYSFILE1. and proj-id*ZSCORES.) can hold. This number is much larger than the  $7\dot{D}\dot{D}$  cases that the survey is designed to produce. RECODE1, like all the other SPSS programs, is unable to distinguish between good and bad data. It is therefore essential that the data cleaning step be done correctly.

## 3.5.6 DATA BASE

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RECODEL references two files that could be construed as data bases. The first is proj-id*GOODDATA. which contains cleaned questionnaire data. RECODEL reads from this file. The second is proj-id*SYSFILEL. This contains the results of all the calculations done by RECODEL as well as the data from proj-id*GOODDATA. It is in SPSS system file format. This file will be used by RECODE2.

3.5.7 CONTROL LANGUAGE None.

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@RUN,R/RT RCOD1/64/Ø,acc-num/user-id,proj-id,ØØ5,5Ø @PASSWD password @CHG,Z SYSFILEL. @CHG,Z ZSCORES. @ERS SYSFILEL. GERS ZSCORES. @ASG,A LIB*SPSS7-2. @ASG,A ATTITUDINAL. @ASG,A SYSFILE1. @ASG,A ZSCORES. @ASG,A GOODDATA. QUSE 4, SYSFILE1. QUSE 20, ZSCORES. QUSE 8, GOODDATA. @LIB*SPSS7-2.SPSS. @ADD ATTITUDINAL.RECODE1 @EOF @FREE SYSFILE1. @FREE ZSCORES. @CHG,V SYSFILE1. @CHG,V ZSCORES. @FIN

Figure 3-19

Sample RECODEL Runstream

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### 3.5.8 INPUT

RECODEL uses the file proj-id*GOODDATA. as input. This file has the same format as proj-id*RAWDATA, which is described in subsection 3.2.8. It is on disk and contains the cleaned data from the attitudinal survey questionnaire.

3.5.9 OUTPUT

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RECODEL produces two output files: proj-id*SYSFILE1. and proj-id*ZSCORES. Both are stored on disk.

3.5.9.1 Proj-id*SYSFILE1

This file is a standard SPSS system file produced by the SPSS control card SAVE FILE. The format of this type file is described in reference 6, Appendix B. The file will be used as input to the program RECODE2.

3.5.9.2 Proj-id*ZSCORES.

This file is an intermediate file containing data produced by RECODEL which is to be used as input to RECODE2. It is produced by the SPSS control card sequence:

CONDESCRIPTIVE Q12,Q13A TO Q13E,Q19,Q2Ø,Q21SUM OPTIONS 3

Its format is given in reference 6, Appendix B.

3-55

#### 3.6 RECODE2.

RECODE2 accepts as input the files proj-id*SYSFILE1. and proj-id*ZSCORES. The data from proj-id*ZSCORES. is modified and then merged with that from proj-id*SYSFILE1. to produce the output file, proj-id*SYSFILE2. proj-id*SYSFILE2. is used by the statistical analysis programs that follow. The details of this manipulation are in the program documentation.

3.6.1 SECURITY (See subsection 3.1.1)

3.6.2 INITIATION PROCEDURES

RECODE2 can be run only after RECODE1 has executed. The data files proj-id*SYSFILE1., proj-id*ZSCORES. and proj-id*SYSFILE2. must be available for RECODE2 to run.

3.6.3 OPERATIONAL PROCEDURES

The user should submit the runstream given in Figure 3-20.

3.6.4 ERROR AND RECOVERY PROCEDURES (See subsection 3.1.2).

3.6.5 CONSTRAINTS AND LIMITATIONS (See subsection 3.5.5).

3.6.6 DATA BASE

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RECODE2 reads proj-id*SYSFILE1. The information from that file is combined with that in proj-id*ZSCORES. and with the compound variables defined in RECODE2 to create a new SPSS system file: proj-id*SYSFILE2. The files proj-id*SYSFILE1. and proj-id*ZSCORES. remain on disk, unaltered.

3.6.7 CONTROL LANGUAGE None.

3.6.8 INPUT (See subsection 3.5.9).

3.6.9 OUTPUT

RECODE2 produces a disk file named proj-id*SYSFILE2. It is in SPSS system file format as described in reference 6, Appendix B. It holds the contents of proj-id*SYSFILE1. as well as a number of new, compound variables for use by later statistical analysis programs.

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@RUN, R/RT RCOD2/64/Ø, acc-num/user-id, proj-id, ØØ5, 4Ø @PASSWD password @CHG,Z SYSFILE2. @ERS SYSFILE2. @ASG,A ATTITUDINAL. @ASG,A LIB*SPSS7-2. @ASG, A SYSFILE1. @ASG,A ZSCORES. @ASG,A SYSFILE2. QUSE 3, SYSFILE1. @USE 4, SYSFILE2. @USE 8,ZSCORES. @LIB*SPSS7-2.SPSS @ADD ATTITUDINAL.RECODE2 @EOF **@FREE SYSFILE2.** @CHG,V SYSFILE2. 0FIN Figure 3-20 Sample RECODE2 Runstream 3-57 

ATTITUDINAL SURVEY
DATA ANALYSIS SYSTEM (ASDAS)

USERS' MANUAL

Prepared for OFFICE OF NOISE ABATEMENT AND CONTROL U.S. ENVIRONMENTAL PROTECTION AGENCY

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CONTRACT NO. 68-01-3840

SEPTEMBER 29, 1979

# COMPUTER SCIENCES CORPORATION

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### 3.7 FREQUENCIES

FREQUENCIES produces frequency distributions and the mode, range, minimum, and maximum statistics for a number of variables in the attitudinal survey.

3.7.1 SECURITY (See subsection 3.1.1),

3.7.2 INITIATION PROCEDURES

FREQUENCIES follows RECODE2 in the ASDAS. The input file proj-id*SYSFILE2., previously generated by RECODE2, must be available before running this program. The file proj-id*FREQOUT. must also be available.

3.7.3 OPERATIONAL PROCEDURES

A runstream is given in Figure 3-21. The user should submit this runstream after substituting the appropriate values for user-id, acc-num, proj-id and password.

3.7.4 ERROR AND RECOVERY PROCEDURES (See subsection 3.1.2).

3.7.5 CONSTRAINTS/LIMITATIONS (See subsection 3.5.5).

3.7.6 DATA BASE

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FREQUENCIES reads proj-id*SYSFILE2.

3.7.7 CONTROL LANGUAGE None.

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3.7.8 INPUT. (See subsections 3.6.9 and 3.6.6 regarding proj-id*SYSFILE2.)

3.7.9 OUTPUT

FREQUENCIES' output file, proj-id*FREQOUT., is kept on disk and is a standard EXEC 8 alternate print file. A listing of this file is sent to the user's line printer.

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@RUN,R/RT FREQ/64/Ø,acc-num/user-id,proj-id,ØØ8,6ØØ @PASSWD password @CHG,Z FREQOUT. @ERS FREQOUT. @ASG,A LIB*SPSS7-2. @ASG,A SYSFILE2. @ASG,A ATTITUDINAL. @ASG,A FREQOUT. @USE 3,SYSFILE2. @BRKPT PRINT\$/FREQOUT @LIB*SPSS7-2.SPSS @ADD ATTITUDINAL.FREQUENCIES @EOF @BRKPT PRINT\$ @FREE FREQOUT. @CHG,V FREQOUT. @SYM,U FREQOUT.,site-id @FIN

# Figure 3-21

# Sample FREQUENCIES Runstream

3-59

## 3.8 CROSSTABS

CROSSTABS is an SPSS program which produces contingency tables with chi-square statistics for selected Attitudinal Survey variables.

3.8.1 SECURITY (See subsection 3.1.1).

3.8.2 INITIATION PROCEDURES

Before starting CROSSTABS the user must make sure that the files proj-id*SYSFILE2. and proj-id*XTABSOUT. are available. This means RECODE2 must have been run.

3.8.3 OPERATIONAL PROCEDURES

A template of the CROSSTABS runstream is shown in Figure 3-22. The user should submit this runstream after substituting for user-id, acc-num, proj-id, password, and site-id.

3.8.4 ERROR AND RECOVERY PROCEDURES (See subsection 3.1.2).

3.8.5 CONSTRAINT/LIMITATIONS (See subsection 3.5.5).

3.8.6 DATA BASE

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CROSSTABS reads proj-id*SYSFILE2.

3.8.7 CONTROL LANGUAGE None.

3.8.8 INPUT (See subsections 3.6.9 and 3.6.6 regarding proj-id*SYSFILE2.)

3.8.9 OUTPUT

CROSSTABS produces the file proj-id*XTABSOUT. which is a standard EXEC 8 alternate print file. A listing of this file is sent to the user's line printer.

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@RUN,R/RT XTABS/64/9,acc-num/user-id,proj-id,Ø10,600 @PASSWD password @CHG,Z XTABSOUT. @ERS XTABSOUT. @ASG,A LIB*SPSS7-2. @ASG,A SYSFILE2. @ASG,A ATTITUDINAL. @ASG,A XTABSOUT. @USE 3,SYSFILE2. @BRKPT PRINT\$/XTABSOUT @LIB*SPSS7-2.SPSS @ADD ATTITUDINAL.CROSSTABS @EOF @BRKPT PRINT\$ @FREE XTABSOUT. @CHG,V XTABSOUT. @CHG,V XTABSOUT. @SYM,U XTABSOUT.,,site-id @FIN

Figure 3-22

Sample Runstream for CROSSTABS

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#### 3.9 REGRESSIONS

REGRESSIONS is an SPSS program that performs a multiple linear regression analysis on a number of the variables contained in the Attitudinal Survey. The regressions are performed according to the causal path model outlined in reference 1, Appendix B.

3.9.1 SECURITY (See subsection 3.1.1)

3.9.2 INITIATION PROCEDURES NOT APPLICABLE.

3.9.3 OPERATIONAL PROCEDURES

See Figure 3-23 for a model REGRESSIONS runstream. Replace user-id, acc-num, proj-id, password and site-id, with the correct values and submit the runstream. Because REGRESSIONS is likely to be expensive, the runstream requests the lowest and least expensive priority. This priority means that the job probably will not run until after 5:00 P.M., NCC time.

To allow the job to run during the day, the user should punch an R instead of a D in column 6 of card 1 in the runstream (the @RUN card). The cost to run will increase about 30%.

3.9.4 ERROR AND RECOVERY PROCEDURES (See subsection 3.1.2)

3.9.5 CONSTRAINTS/LIMITATIONS (See subsection 3.5.5)

3.9.6 DATA BASE

REGRESSIONS reads proj-id*SYSFILE2.

3.9.7 CONTROL LANGUAGE None.

3.9.8 INPUT (See subsections 3.6.9 and 3.6.6)

3.9.9 OUTPUT

The output file, proj-id*REGRESSOUT.; is a standard EXEC 8 alternate print file containing the results of the REGRESSION program. A listing of this file is sent to the user's line printer.

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@RUN,D/RT RGRSS/64/@,acc-num/user-id,proj-id,Ø2Ø,6ØØ @PASSWD password @CHG,Z REGRESSOUT. @ERS REGRESSOUT. @ASG,A LIB*SPSS7-2. @ASG,A SYSFILE2. @ASG,A ATTITUDINAL. @ASG,A REGRESSOUT. @USE 3,SYSFILE2. @BRKPT PRINT\$/REGRESSOUT @LIB*SPSS7-2.SPSS @ADD ATTITUDINAL.REGRESSIONS @EOF @BRKPT PRINT\$ @FREE REGRESSOUT. @CHG,V REGRESSOUT. @SYM,U REGRESSOUT.,,site-id @FIN

Figure 3-23

Sample REGRESSIONS Runstream

3-63

## 3.10 ARCHIVING THE SYSTEM'S RESULTS

The expense and trouble of running the ASDAS will have been wasted if the results are missing when they are needed at some future time. Keeping copies of the results on disk is expensive, however, and paper has a tendency to get lost. The best way to preserve the system's output is on tape. It is suggested that a separate tape be written for each city, and that is the approach taken below.

#### 3.1Ø.1 SECURITY

The best security that can be provided for a tape is to store it in a safe place. This place must have the right environment for tape storage and the tape must be well labeled so the data on it will not deteriorate or become unusable because its format has been forgotten. It is suggested that the tape listing portion of this section's output be used as the label. It is also suggested that a master list be maintained of tape numbers, tape names and the cities to which they correspond.

When it is written, the system archive tape will be catalogued as a public file with a write key. This means that any user can read the tape, but he must know the proper key (a sort of password) to write on it. This key will be the same for all ASDAS tapes.

#### 3.10.2 INITIATION PROCEDURES

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The user's first step in storing the ASDAS data is, of course, to run the system. Next, a tape must be obtained. To request a tape, the user should call the Tape Librarian (See Appendix A for a list of useful NCC phone numbers).

If the tape will remain at NCC, a library tape should be asked for. If it is to be removed, a 'B-tape' is needed. Users are charged tape rental and storage costs. Library tapes are much cheaper. The Tape Librarian will know the current charges.

#### 3.10.3 OPERATIONAL PROCEDURES

Figure 3-24 shows the runstream that should be used to archive the ASDAS. As usual, the user must substitute the appropriate values for user-id, acc-num, proj-id and password. New for this run is 'tape-num' the number assigned to the tape by the Tape Librarian. It will be given to the user at the time the tape is requested.

3-64

@RUN, R/RT ARCHIV/35/1, acc-num/user-id, proj-id, ØØ5 @PASSWD password @DELETE,C tape-nam. @ASG,UP/W tape-nam.//ASDAS,36N,tape-num QUSE OUTTAPE., tape-nam. QASG,A LISTEN*ATTITUDINAL. @ASG, A ATTITUDINAL. @ASG,A GOODDATA. @ASG, A SYSFILE2. @ASG, A VARIANOUTPUT. @ASG, A FREQOUT. GASG, A XTABSOUT. @ASG, A REGRESSOUT. @COPOUT LISTEN*ATTITUDINAL., OUTTAPE. @COPOUT ATTITUDINAL., OUTTAPE. @COPY VARIANOUTPUT.,OUTTAPE. @COPY FREQOUT.,OUTTAPE. @COPY XTABSOUT., OUTTAPE. @COPY REGRESSOUT., OUTTAPE. @COPY GOODDATA., OUTTAPE. @COPY SYSFILE2., OUTTAPE. @REWIND OUTTAPE. QUS*ER.FLIST, B OUTTAPE. @FIN

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## Figure 3-24

Runstream to Archive ASDAS Results

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The user must also substitute some meaningful name for 'tape-nam'. This name must be twelve letters or shorter. It is suggested that the name take the form: 'city-ASDAS' where 'city' is the city's name or a shortened form of it and the dash is included in the name.

If the user wishes to write more than one archive tape, the archiving run should be submitted once per tape. Tape-nam and tape-num should be altered appropriately. It is suggested that they be named consecutively: 'city-ASDAS1', 'city-ASDAS2', etc.

(Which contains CLEAN, TAILOR, VARIANCE and the raw form of all

(Which contains the SPSS programs in the form in which they were

SPSS programs)

used on the data).

The runstream saves the files:

LISTEN*ATTITUDINAL.

proj-id*ATTITUDINAL

proj-id*VARIANOUTPUT. proj-id*FREQOUT. proj-id*XTABSOUT. proj-id*REGRESSOUT. proj-id*GOODDATA.

proj-id*SYSFILE2.

The program files are saved because there is plenty of room on the tape and because it may be very useful to know exactly which version of a program produced the output in hand. The best way to ensure that this information is available is to keep a copy of the program along with the output it has generated.

3.10.4 ERROR AND RECOVERY PROCEDURES

If for some reason, this job should fail in the middle of a run, simply resubmit it. It should run to completion. If the job consistently fails, take the input deck and the output listings to a systems programmer.

It is suggested that the runstream discussed in the next section be run to make sure that the tape has been written correctly. If it has not, check the cards used in this section. If they are incorrect, correct them and resubmit the run. If they are correct, consult a systems programmer.

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and the final life is the first of the second state of the

3.10.5 CONSTRAINTS/LIMITATIONS Not Applic	abre
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3.10.6 DATA BASE None.

3.10.7 CONTROL LANGUAGE None.

3.10.8 INPUT

The inputs to the FURPUR processor (an EXEC 8 utility program that copies the files to tapes) are

LISTEN*ATTITUDINAL. proj-id*ATTITUDINAL. proj-id*VARIANOUTPUT. proj-id*FREQOUT. proj-id*REGRESSOUT. proj-id*GOODDATA. proj-id*SYSFILE2.

These are disk files. Their formats are given in the previous portions of the manual.

3.1Ø.9 OUTPUT

The output of the run is a tape with the input files copied onto it in the order given above. The two program files, LISTEN*ATTITUDINAL, and proj*ATTITUDINAL, are in COPOUT format. The data files are in COPY format.

A directory of the files copied to the tape is also produced. It is suggested that a copy of this be kept with the tape as noted above.

3-67

#### 3.11 DE-ARCHIVING THE SYSTEM'S RESULTS

When the information on the archive tape is needed, it will be necessary to run a tape reading job to obtain it. Such a job is also a good check on the archiving procedure of  $3.1\emptyset$ , to see that the data have been written to the tape correctly.

3.11.1 SECURITY (See section 3.10.1)

3.11.2 INITIATION PROCEDURE

A tape of the form described in Section 3.10 must be available. If the tape was removed from the computer center, it must be returned.

The user must know the tape's number and the name with which it was created. Otherwise, he will be unable to get the information off it. Check the documentation that the tape's creator should have affixed to the tape for the tape name and tape number.

#### 3.11.3 OPERATIONAL PROCEDURE

Figure 3-25 shows the runstream that is used to read the data from the tape. User-id, acc-num, proj-id, password, and site-id are substituted for as usual. Tape-nam and tape-num should be taken from the documentation accompanying the tape to be read. If there is none, a systems programmer will have to be consulted to read this data from the label written on the tape itself.

The runstream will read the tape and copy the files it contains onto disk. The names of the de-archived disk files will be different from the names of the files that were copied to the tape. The new names are given in 3.11.9 below. Using different names prevents accidental destruction of the original files.

#### 3.11.4 ERROR AND RECOVERY PROCEDURES

A number of errors can occur when running this job. First, the tape name or number can be incorrectly identified or incorrectly punched. If this happens, the user will probably get an error message of the form:

'I/O ERROR 20.'

In some instances, other error messages such as

'tape-nam IS BADLY POSITIONED OR HAS BAD LABEL'

may be generated. If one of these messages occurs, the user should check to see that the tape name and number are punched correctly in the runstream.

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<pre>@RUN,R/RT DRCHIV/35/1,acc-num/user-id,pro @PASSWD password @DELETE,C RLISTNATT. @DELETE,C RPROJATT.</pre>	oj−id,ØØ6,5ØØ
<ul> <li>@DELETE,C RVAROUT.</li> <li>@DELETE,C RFREQOUT.</li> <li>@DELETE,C RXTABSOUT.</li> </ul>	
@DELETE,C RREGOUT. @DELETE,C RGDDATA.	
@DELETE,C RSYS2. @CAT RLISTNATT.	
CAT RPROJATT. CAT RVAROUT.	
CAT RFREQOUT.	
CAT RXTABSOUT. CAT RREGOUT.	
CAT RGDDATA. CAT RSYS2.	
eDELETE, C tape-nam.	
@ASG,U tape-nam.,36N,tape-num @USE INTAPE.,tape-nam.	
<b>@REWIND INTAPE.</b>	
COPIN INTAPE., RLISTNATT. @COPIN INTAPE., RPROJATT.	
@COPY INTAPE.,RVAROUT. @COPY INTAPE.,RFREQOUT.	
@COPY INTAPE.,RXTABSOUT.	
COPY INTAPE.RREGOUT COPY INTAPE.RGDDATA	
COPY INTAPE.RSYS2	
@FREE INTAPE. @HDG *** ELEMENTS IN PROJ-ID*RLISTNATT.***	
@PRT,T RLISTNATT. @HDG ***ELEMENTS IN PROJ-ID*RPROJATT.***	
OPRT,T RPROJATT.	
CHDG,N CSYM,U RVAROUT.,,site-id	
@SYM,U RREGOUT.,, site-id	
وSYM,U RGDDATA.,,site-id GFIN	
Pada 1	
Figure 3-25	
	Doowlas
Runstream to De-Archive ASDAS 1	RESULTS
Runstream to De-Archive ASDAS 1 3-69	Kesults

See als.

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Second, the computer operator may be unable to find the tape. If so, he will send a message to that effect to the user's job and abort it. If the user is certain the tape is at NCC, the Tape Librarian should be called, the tape located and the runstream submitted again.

The final possibility is that the data on the tape may be bad. This will probably cause the run to abort with an 'I/O ERROR'. If it does not, the file listings will make it obvious that an error has occurred by being filled with garbage. There is not a great deal the user can do in this case, except hope that another copy of the tape is available.

3.11.5 CONSTRAINTS/LIMITATIONS Not Applicable.

3.11.6 DATA BASE None.

3.11.7 CONTROL LANGUAGE None.

3.11.8 INPUT

Input to this section's runstream is from a tape written by the runstream described in 3.10 above. This tape contains the ASDAS programs generated for a particular city and the output of those programs. See  $3.1\emptyset$  for its format.

3.11.9 OUTPUT

Output from this runstream is in two forms: Files on disk and a listing of these files. The names of the files on disk are not the names under which they were copied to tape. This prevents the user from accidentally destroying the original data files.

The new file names are:

proj-id*RLISTNATT. proj-id*RPROJATT. proj-id*RVAROUT. proj-id*RFREQOUT. proj-id*RXTABSOUT. proj-id*RREGOUT. proj-id*RGDDATA. proj-id*RSYS2. where the initial R signifies "restored."

A directory of the elements contained in the files proj-id*RLISTNATT. and proj-id*RPROJATT. is included in the runstream printout. The directory for proj-id*RPROJATT. should show that it contains the elements:

> RECODE1 LABELS RECODE2 FREQUENCIES CROSSTABS REGRESSIONS

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 proj-id*LISTNATT. should contain these elements plus others.

Five other printouts are also produced. These printouts each list the contents of one of the following files:

proj-id*RVAROUT.
proj-id*RFREQOUT.
proj-id*RXTABSOUT.
proj-id*RREGOUT.
proj-id*RGDDATA.

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### 3.12 CLEAN-UP

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. . . ليب Once all work with the ASDAS has been completed, it may be desired to delete the files it uses from disk. This will save money and make those filenames available for other uses.

3.12.1 SECURITY Not applicable.

3.12.2 INITIATION PROCEDURES Not applicable.

3.12.3 OPERATIONAL PROCEDURES

Submit the runstream in Figure 3-26 after changing user-id, acc-num, proj-id and password to the correct values. The runstream deletes the following files:

proj-id*ATTITUDINAL. proj-id*VARIANOUTPUT. proj-id*FREQOUT. proj-id*XTABSOUT. proj-id*REGRESSOUT. proj-id*GOODDATA. proj-id*RAWDATA. proj-id*SYSFILE1. proj-id*2SCORES. proj-id*SYSFILE2. proj-id*RLISTNATT. proj-id*RPROJATT. proj-id*RVAROUT. proj-id*RFREQOUT. proj-id*RXTABSOUT. proj-id*RREGOUT. proj-id*RGDDATA.

proj-id*RSYS2.

3.12.4 ERROR AND RECOVERY PROCEDURES

If this run is submitted before the user is truly done with the system, the system will have to be run again from the beginning or restored from

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	@RUN,R/RT KILL/35/Ø,acc-num/user-id,proj-id,SØ3Ø,2Ø @PASSWD password @DELETE,C ATTITUDINAL. @DELETE,C VARIANOUTPUT. @DELETE,C FREQOUT.
	@DELETE,C XTABSOUT. @DELETE,C REGRESSOUT.
—	@DELETE,C GOODDATA. @DELETE,C RAWDATA. @DELETE,C SYSFILE1.
	@DELETE,C ZSCORES. @DELETE,C SYSFILE2.
	@DELETE,C RLISTNATT. @DELETE,C RPROJATT. @DELETE,C RVAROUT.
_	@DELETE,C RFREQOUT. @DELETE,C RXTABSOUT.
	@DELETE,C RREGOUT. @DELETE,C RGDDATA. @DELETE,C RSYS2.
	0FIN
	3-26 Sample Runstream to Delete LISTEN System
1274	3-20 Bampre Kanscream to berete bibilm bystem
	2, 20
لسا	3–73 Received and the second
بليها المعام السورية	in the second the first of the first of the second and the second a

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the arc	chive tape (if available). The only errors that will interfere
with th	his runstream's successful execution are transitory computer failures.
Deal wi	ith these by resubmitting the run.
3.12.5	CONSTRAINTS/LIMITATIONS Not applicable.
3.12.6	DATA BASE None.
3.12.7	CONTROL LANGUAGE None.

3.12.8 INPUT Not applicable.

3.12.9 OUTPUT Not applicable.

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### APPENDIX A

# INFORMATION REGARDING THE EPA'S NATIONAL COMPUTER CENTER (NCC)

A.1 USEFUL PHONE NUMBERS

Figures A-1 through A-3 give phone numbers of interest to NCC users.

A.2 USING TAPES

To obtain tapes for use on the NCC computer, contact the tape librarian at FTS 629-2385 (Commercial 919-541-2385) and provide the following information:

a. User name

- b. User account number
- c. EPA Division with which user is working

d. Number of tapes required

Tape Costs:

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Rental of system library tape	\$2.00/month
Storage of 'B-tape' (external tape)	\$2.00 (1st day)
	\$1.00 (daily, days 2-14)
	\$2.00 (daily, days 14~)

This does not include the purchase price of the 'B-tape'.

A.3 RUN PRIORITY

Batch runs submitted to the NCC must request one of four possible priority:

Urgent Preferred Routine Deferred

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Manager and a second 
Urgent requires special arrangements and permission and is almost never used. Anticipated turnaround times for the other priorities are:

#### 90th Percentile of Turnaround Time (Minutes) Estimated Runtime in Minutes Preferred Routine Deferred ON (overnight) 2 50 60 10 120 180 ON 30 360 ON (over ON night) 60 ON (overnight) ON ON Using the cost of a routine job as a base, the costs of an identical job run at another priority would be in these proportions: Urgent 6.0 2.0 Preferred Routine 1.0 0.75 Deferred Any job requesting these resources or greater will be held till after 1700 NCC time: 66 kWords of main memory 60 minutes of execution time 30 minutes of execution time and 45 kWords of main memory

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4 tape drives

The charge will not be reduced.

A.4 SYSTEM AVAILABILITY

schedule is unchanged.

50% discount.

Runs submitted and completed between 0800 and 1700 on Saturdays receive a

Table A-1 shows the NCC operations schedule. Note that communications

are now available starting at 0730 Monday through Friday. Saturday's

NCC SERVICES	
Account Registration	(919) 541-3629/36 (FTS) 629-3629/36
Assistance/Consultation	(919) 541-3649 (FTS) 629-3649
System Status Recording	(919) 541-2226/22 (FTS) 629-2226/22
Documentation	(919) 541-3646/36 (FTS) 629-3646/36
Production Control	(919) 541-3655 (FTS) 629-3655
Programming/Analysis	(919) 541-3619 (FTS) 629-3619
Refunds	(919) 541-3649 (FTS) 629-3649
Tape Librarian	(919) 541-2385 (FTS) 629-2385
Telecommunications NCC Technician	(919) 541-4506 (FTS) 629-4506
COMNET	(WATS) (800) 424- (FTS) (202) 537-2
Training	(919) 541-3648/36 (FTS) 629-3648/36
User Communications	(919) 541-3647/364 (FTS) 629-3647/364

Useful NCC Phone Numbers

Figure A-1

LOCATION	BAUD RATE	MODEM	TELEPHONE
Washington, D. C. All other areas	2000 baud 4800 baud 2000 baud	201-A 208-B 201-A	(202) 686-5019 (202) 363-4713 (800) 424-3679
	4800 baud	208-B	(800) 424-3672

Figure A-2

Phone Numbers for NCC Remote Batch Entry Access

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www.comment.com/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/active/activ

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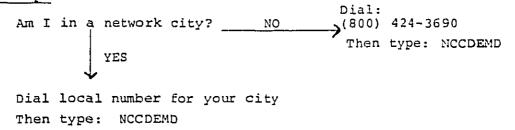
# INTERACTIVE ACCESS TO NCC

To gain access to the NCC time sharing system the user must be able to answer two questions:

1. Which speed am I running (300 bps or 1200 bps)?

2. Where am I?

For 300 bps:



# NETWORK CITIES

1	•		5
- 1	11-12 11-12	Athens, Ga. (404) 549-3882 Montgomery, Ala. (205) 277-	
i		Atlanta, Ga. (404) 873-6431 Nashville, Tenn. (615) 244-	
Ì	10	Boston, Mass. (617) 742-0420 New Orleans (504) 566-	0041:
÷	े जे	Chicago, Ill. (312) 663-1640 New York, N.Y. (212) 962-	
÷.		Cincinnati, Ohio (513) 751-5800 Philadelphia, Pa. (215) 925-	
÷.	i 7 Vrad	Columbia, S.C. (803) 256-1018 Res. Tri. Park, N.C. (919) 541-	
2		Dallas, Tex. (214) 651-1723 San Francisco, Cal. (415) 546-	
1		Denver, Colo. (303) 837-0843 Seattle, Wash. (206) 682-	
ŕ	[754	Grosse Ile, Mich. (313) 675-8936 Washington, D. C. (202) 966-	
÷		(ansas City, Mo. (816) 474-3540 Wethersfield, Conn. (203) 529-	3378 <u> </u>
÷.	0,1	Las Vegas, Nev. (702) 736-1988	-
Ť.			i
8	para. F	for 1200 bps:	i
i'	i _{est}	Lither VADIC 3400 series compatibility or BELL 212 compatibility	
÷		Dial:	÷
1	124	um I in Washington, D. C.? YES (202) 966-9820 Then type:	
1	l i Nave		
1			
		NO Dial:	
	1	m I in Res. Tri. Park, N.C.? YES (919) 541-2071 Then type:	
ļ		NCCMSPD	1
j			:
		V NO	
ļ		Dial (800) 424-3607	i i
Į	paline.	Then type: NCCDEMD	
É		Figure A-3	
9		Numbers to Call to Gain Access to NCC Timesharing	
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14	การสารสารสารสารสารสารสารสารสารสารสารสารสา	https://www.incomenters.com/www.com/www.com/www.com/www.com/www.com/www.com/www.com/www.com/www.com/www.com/ww	et and the second

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# TABLE A-1

DAT OF HEEK	FULL SYSTEM PROD.	SPLIT SYSTEM PROD.	FUL' SYSIEM P.M.	SPLIT SYSTEM F.M./CM	FULL SYSTEM	SPLIT SYSTEM 5.A. TIM	AS NEEDED FOR BACK-	
MON	0600-2400		0000-0600					0800-2400
TUES	0000-0100 0800-2400	0100-0800		0300-0500		0100-0300 05C0-0700		0900-2400
WED	0000-0100	0100-0500			0500-0700 (INSTALL	0100-0500		0800-2400
	0800-2400			i	NEW BOOT			
THURS	0000-0100 0800-2400	0100-0800		0300-0500		0100-0300 0500-0703		0800-2400
FRI	0000-0100 0800-2400	0100-0800				0100-0700		0600-2400
SAT	0000-1630						1630-2400	0500-1630
SUN					1400-2400		0000-1400	
TOTAL	102.5 HRS.	25 HRS.	6 HRS.	4 HRS.	12 HRS.	18 HRS.	21.5 HRS.	88.5 HRS

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NCC OPERATIONS SCHEDULE

P.M. - Preventive Maintenance

C.M. - Communications Maintenance

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S.A. - Systems Analysis

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Table A-2 NCC Remote Site ID's

Region 1 Region 2 Region 3 Region 4 Region 5 Region 6 Region 7 Region 8 Region 9 Region 9 Region 10 NERC NERC Headquarters NCC	Boston New York Philadelphia Atlanta Chicago Dallas Kansas City Denver San Francisco Seattle Cincinnatti Las Vegas Washington, D.C. RTP	DATAOB DATAOL DATAOL DATAOC DATAOC DATAOE DATAOF DATAOF DATAOZ DATAOU DATAOQ and DATAOX DATAOS SØ7PRL PR
NCC ODW	RTP Headquarters	PR DATALC

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#### APPENDIX B - PROJECT REFERENCES

## MANUALS FOR THE ATTITUDINAL SURVEY

- Wyle Research and the Institute for Social Science Research, <u>Community Noise Assessment Manual Social Survey Workbook</u> (Wyle Research Report WR77-4). El Segundo, CA: Wyle Research, 1977
- Wyle Research and the Institute for Social Science Research, <u>Community Noise Assessment Manual Appendices for the Social Survey</u> <u>Workbook</u>. (Wyle Research Report WR77-4). El Segundo, CA: Wyle Research 1977.
- Michael Glazer, Steve Eagleson, and Kim Nguyen, <u>Attitudinal Survey</u> <u>Data Analysis System (ASDAS) Programmer's Maintenance Manual</u>. Falls Church, VA: Computer Sciences Corporation, 1979

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MANUALS FOR OTHER PORTIONS OF THE QUIET COMMUNITIES PROGRAM

- Patrick K. Glenn, <u>Community Noise Assessment Manual Acoustical Survey</u> <u>Computerized Data Reduction Procedures</u>. (Wyle Research Report WR79-8). El Segundo, CA: Wyle Research, 1979
- Richard E. Burke, <u>Community Noise Strategy Guidelines Manual</u>. (Wyle Research Report WR78-1). El Segundo, CA: Wyle Research, 1978
- Norman H. Nie, et al, <u>Statistical Package for the Social Sciences</u>, Second Edition. New York, New York: McGraw-Hill, Inc., 1975
- Norman H. Nie and C. Hadlai Hull, <u>SPSS Barch Release 7.0 Update Manual</u> March, 1977

REFERENCES FOR THE UNIVAC 1110, EXEC 8 AND SYSTEM PROCESSORS

8. SDC Integrated Services, <u>NCC User Reference Manual</u>, (10 volumes). Research Triangle Park, NC: 1977 Revised June, 1979

B-1

9.	Sperry Univac Computer Systems,	Sperry Univac 1100 Series Executive
	System Programmer Reference, (4	volumes). (Sperry documents UP-4144.11,
	UP-4144.21, UP-4144.31, UP-4144.4	41).

- 10. Sperry Univac Computer Systems, EXEC 8 Hardware/Software Summary. (UP-7824R1)
- 11. Sperry Univac Federal Systems Operations, Introduction to EXEC 8. (SST-8001). McLean, VA 1973
- 12. Sperry Univac Education Media Development, 1100 Executive Control Language. (UE-738R1). Princeton, NJ: Sperry Univac, 1976
- 13. Sperry Univac Computer Systems, 1100 Series Fortran V Programmer Reference (UP-4060R2 with updates R2-E and R2-F)
- 14. Sperry Univac Computer Systems, <u>1100 Series Fortran V Library</u> Programmer Reference (UP-7876 updates, A, B, C, and D)

### UNIVERSITY OF MARYLAND TEXT EDITOR (US*ER.ED)

15. P.E. Hagerty and K.E. Sibbald, Text Editor User's Guide (University of Maryland Computer Note CN-7.1). College Park, MD: University of Maryland Computer Science Center, 1977

### STATISTICS

16. Leslie Kish, SURVEY SAMPLING. New York, NY: John Wiley and Sons, Inc.



# ERRORS REPORTED BY CLEAN

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ATTITUDINAL SURVEY DATA CLEANING MESSAGES DATE 092679 PAGE 1 GA DATA. E 10, DATA, T CLEAN, CLEAN * ATTITUDINAL SURVEY DATA CLEANING BEGINS *** Ogram Written Ry: Dr. Ragu Singh, CSC St edit By: Steven G. Eagleson, CSC, Falls Church, Va. ARABARAVERSION 2,4(9) RRAARAARA FLEXIBLE DATA RANGES: PLEXIBLE DATA RANGEST LOID# 1 M/ID# 1500 LONZ# 1 MIN2# 17 LCAH# 1 MIAR# 7 LGCLUS= 1 MICLUS# 100 CITIES# 88 BR 88 MAX INT DATE# 60 8 A MAX NU OF ERRORSE ۵ WITH COMMUNITY NUISE PROGRAM AFFECTS 018, 019 0194, 021 ROR: RECORD NO.= RORE RECORD NO.S COLUMNS 84 9 ROR: RECORD NO.= 1, CASE NO.# 1, ID NO,= 1. CARD NO.= 1 AREA OUT OF RANGER = 0 COLUMN 10 IOR: RECORD NO.: 1, CASE NO.= LA ID NU.= 1, CARD NÚ,= 1 COLUMNS 11=13 OR& RECORD NG. -OR: RECORD NO.= 1, CASE NO. # 1, ID NU.= 1, CARD ND. = 1 COLUMNS 17-18 ORT RECORD NO.= 1, CASE ND.# 1, 10 NU.* 1. CAHD NO.= 1

,					
ATTI	TUDINAL SURVEY DATA CLEANING HESSAGES	DATE 092679	PAGE	2	
	0000101000 00000055n0 0090004900 00000000 00000000000000000	,			
ERRORI	RECORD NO.* 1, CASE NO.# 1, ID HO.# 1, CARD NO.# 1 0000101000 0000005500 009000000000000000				
ERRORI	RECORD NO.# 1, CASE NO.= 1, JD NO.= 1, CARD NO.= 1 0000101000 0000005500 0090009900 00000000 00000000				
ERRORI	RECAMD NOTE 1, CASE NOTE 1, ID NOTE 1, CARD NOTE 1 010110100 000005500 0040009900 000000000 000000000 00000000				
IRRORI	HECORD NO.* 1, CASE NO.* 1, ID NU.# 1, CARD NO.* 1 0000101000 0000005500 0000009900 000000000 00000000				
AROR 1	HECOHD ND.= 1, CASE ND.= 1, ID ND.= 1, CARD ND.= 1 0000101000 0000005500 0090009900 00000000 00000000				
1 RURE	RECORD NO.= 1, CASE NO.= 1, IO NO.= 1, CAND NO.= 1 0000101000 0000005500 0090009900 00000000 00000000				
IRORI	RECORD NO.= 2, CASE NO.= 1, IO NO.= 1, CARD NG.= 2 0000102000 555555555 5555500400 000000000 00000000				
	RECHRD NO.# 2, CASE NO. 1, ID NO.# 1, CARD NO.= 2 0000102000 55555555555555500000 0000000000				
	RFCORD NO 2, CASE NO.# 1, ID NO.# 1, CAND NO.# 2 0000102000 555555555 555560000 000000000 00000000				•
_	RECORD NO,# 2, CASE NO,# 1, IO NG,# 1, CARD NO,# 2 Doon102000 55555555555555500000 00000000 000000				
	(ECCHD ND.= 2, CASE NO.= 1, IO NO.= 1, CARD NO.= 2 0000102000 55555555555555555555555555555				

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ATTI	TUDINAL SURVEY DATA CLEANING MESSAGES	DATE 092679	PAGE	3	
	COLUMNS 15-16				
ERRORI	RECORD NO.= 2, CASE NO.= 1, ID NO.= 1, CARD NO.= 2 0000102000 555555555 5555500000 0000000000	•			
ERRORE	RECORD NO.# 2, CASE NO.# 1, IN NO.# 1, CAHD NO.# 2 0000102000 555555555 5555500000 00000000 000000				
ERROR E	RECORD NC.= 2, CASE NG.= 1, IN NO.= 1, CARD NG.= 2 0000102000 555555555 5555500000 000000000 000000				
RROR:	RECORD NG.= 2, CASE NO.= 1, IN NO.= 1, CARD NO.= 2 0000102000 55555555 5555500000 000000000 000000				,
ARORI	RECORD NO ₅ # 2; CASE NO ₆ # 1; IN NO ₅ # 1; CARD NO ₅ # 2 DN00102000 5555555555 5555500000 nonnnoodoo Quunoodoo n55555550 Dn00555555 55550000nQ Q58 DUT OF RANGET #0 CNLUMN 27				
	RECORD NO.** 2; CASE NO.= 1; ID NO.* 1; CARD NO.= 2 0000102000 555555555 555500000 000000000 000000				
	RECORD NO.# 2: LABE NOTE 1: ID NO.= 1: CARD NO.= 2 0000102000 555555555555555500000 000000000 000000				
	RECORD NC.# 2, CASE NO.#+ 1, ID NO.# 1, CARD NO.# 2 DOGOLO2000 5555555555 5555500000 cooonoooon 000000000 0555555500 0000555555 5555000000				
	RFCURD HU,# 2, CASE NO,= 1, ID NU,= 1, CARD NO,* 2 DAGGIG2000 555555555 5555500000 ADAGAGOOODOO 00000000 05555555500 0006555555 5555000000 DFF DUT 'JF RANGE1 #0 COLUMN 31				
	RECARD ND.# .2, CASE ND.= 1, ID NU.= 1, CARD ND.= 2 0800102000 5555555555555555500000 0000000000				
	RECORD ND.= 2, CASE ND.= 1, ID NU.= 1, CARD ND.= 2 0000102000 555555555 5555500000 000000000 000000				
i	OLUKN 23				

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ATTITUDINAL SURVEY DATA CLEANING MESSAGES DATE 092679 PAGE ERROR: RECORD NO.= 2, CASE NO. . I ID NU.S 1, CAND NO. = 2 Q6A OUT OF RANGEL =0 COLUMN 34 868 OUT OF RANGES =0 COLUMN 35 COLUMN 36 ERROR + RECORD NO. --2, CASE ND.= 1. CARD NU. = 2 t, ID NU.≖ COLUMN 37 ERROR: RECORD NO.= GOE OUT OF RANGES #0 COLUMN 38 ERROR: RECORD NO.= 2, CASE NO.= 1, 10 NU.= 1, CARD NO.= 2 COLUMN 39 TRAURE RECORD NO.= Q66 OUT OF RANGES 40" COLUMN 40 RROP: RECORD NG.= 2, CASE ND, # 1, 10 NO.= 1, CARD NO.= 2 COLUMN 41 RROR: RECORD NO.= RROR: RECORD NO.= 2, CAS: VO,# 1, ID NU.= 1, CARD NO.= 2 QAK OUT OF RANGES =0 COLUMN 44 RORI RECORD NO.#

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Q7 OUT OF RANGES =0 COLUMN 45

- 2, CASE NO.= ERROR: RECORD NO.= 1, ID NU,= 1, CARD NO,= 2 Q8 OUT OF RANGES =0 COLUMN 46
- ERROR: RECORD NO... 2, CASE NO. d 1, ID NO.= 1, CARD NO.= 2
- RROR: HECORD NO. # Q1QA OUT OF RANGE1 #0 COLUMN 48
- 1, CARD NO,= 2 HRORE RECTIRD NO. 2, CASE NO,∎ 1, ID NO,= COLUMN 49
- RROR: RECORD NC.=
- COLUMN SI 1
- RORE RECORD NO. . 2, CASE NO.= 1, ID NO,≠ 1, CARD ND,# 2 00001102000 5555554 355 555500000 00000000 00000000 055555560 0000555555 555000000 0114 OUT OF RANGET =5 · · · · COLUMN SZ

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- RCR; RECORD NO,# 2, CASE NG, 1, IP ND,# 1, CARD ND,# 2 0000102000 555555555 5555504409 00000000 000000000 0555555900 0400555555 %355000000 0110 OF RANGE: #5 010000 E3 COLUMN 53
- ROR: RECORD NO.= 2, CASE NO,= Ir ID NU.≓ 1, CARD ND, # 2 GIID OUT OF HANGES =5 COLUMN 55
- IGRI RECORD NO.= GILE OUT OF RANGES #5 COLUMN 56

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ATTIIUDINAL SURVEY DATA CLEANING MESSAGES         DATE 092679         PAGE           ATTIIUDINAL SURVEY DATA CLEANING MESSAGES         1, ID NU:= 1, CARD ND.= 2 0000102000 S555555 555500000 RD00000000 00000000 0555555 5555000000 '         .           CAUMUN 67         COLUMN 67         2, CASE ND.= 1, ID NU:= 1, CARD ND.= 2 0000102000 S555555 5555500000 RD00000000 000000000 05555555 5555000000 CONS55555 5555000000 CONS55555 5555000000 CONS55555 5555000000 CONS55555 5555000000 CONS55555 5555000000 CONS55555 5555000000 CONS00000 CONS555555 5555000000 CONS55555 5555000000 CONS55555 5555000000 CONS00000 CONS555555 5555000000 CONS00000 CONS555555 5555000000 CONS55555 5555000000 CONS00000 CONS555555 5555000000 CONS00000 CONS555555 5555000000 CONS55555 5555000000 CONS000000 CONS555555 5555000000 CONS55555 5555000000 CONS000000 CONS555555 5555000000 CONS55555 5555000000 CONS00000 CONS555555 5555000000 CONS00000 CONS555555 5555000000 CONS55555 5555000000 CONS00000 CONS55555 5555000000 CONS0000 CONS55555 5555000000 CONS00000 CONS55555 5555000000 CONS55555 5555000000 CONS55555 5555000000 CONS00000 CONS55555 5555000000 CONS00000 CONS55555 555500000 CONS00000 CONS55555 5555000000 CONS55555 5555000000 CONS55555 5555000000 CONS00000 CONS55555 555500000 CONS55555 555500000 CONS55555 5555000000 CONS555555 5555000000 CONS55555 555500000 CONS00000 CONS555555 555500000 CONS000000 CONS555555 5555000000 CONS555555 555500000 CONS00000 CONS555555 55550	
<ul> <li>000102000 555555555555555555555555555555</li></ul>	7 .
0000122000 55555555 555500000 0000000000	
000102000 5555555555 555500000 000000000 000000	
0000102000 55555555 5555500000 0000000000	
0000102000 555555555 5555500000 000000000 000000	
0000102000 555555555 555500000 000000000 000000	
0000102000 55555555555555555500000 00000000 000000	
0009102000 55555555555555500000 00000000 000000	
0000102000 555555555 5555500000 000000000 000000	
RROR: RECORD (),# 3, CASE NO.# 1, ID NO.# 1, CARD NO.# 3 0000103000 000000000 000000000 0555553865 550555555 7000000000 0000000000 00000000	
RROR: RECORD ND.= 3, CASE NO.= 1, ID NO.= 1, CARD NO.= 3 0000103000 000000000 000000000 0555553805 55055555 700000000 00000000000000 017R DUT OF RANGE: #0 COLUMN 9	
RRORS RECORD NO.= 3, CASE NO.= 1, IN NO.= 1, CARD NO.= 3	

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ATTI	TUDINAL SURVEY DATA CLEANING HESSAGES	DATE 092579	PAGE	8	
	0000103000 000000000 000000000 055553865 55055555 700000000 000000000 000000000	r			
ERRORI	RECARD NO,= 3, CASE NO,= 1, IO NU,= 1, CARD NO,= 3 0100103000 000000000 000000000 055553805 550555555 7000000000 0000000000 00000000				
EARORI	RECARD NO.# 3, CASE NO.# 1, IA NO.# 1, CARD NO.# 3 0000103000 000000000 000000000 055553805 550555555 7600000000 000000000 00000000 017E OUT OF RANGE1 =0 COLUMN 12				
EHRURI	RECORD NO,= 3, CASE NO,= 1, ID NO,= 1, CARD NO,= 3 nooolo3000 000000000 000000000 0555553805 550555555 7000000000 000000000 00000000				
EBRUPI	RECORD ND.2 3, CASE ND.2 1, ID ND.2 1, CARD ND.2 3 0000103000 000000000 000000000 0555553805 550555555 7000000000 000000000 00000000				
	RECTIKE NO.= 3, CASE NO.= 1, ID NO.= 1, CARD NO.= 3 0000103000 000000000 00000000 0555553805 550555555 7000000000 000000000 00000000				
ERRORI	RECORD NU, #				
ERRORI	RECORD ND,# 3, CASE NO,≱ 1, IN NU,⇒ 1, CARD ND,= 3 0000103000 000000000 0000000000000000				
ERRORI	RECORD NU,# 3, CASE NO.# 1, IN NO.# 1, CARD NO.# 3 0000103000 000000000 0000000 0555553855 550555555 7000000000 000000000 00000000				
ERRORE	RECORD NO,# 3, CASE NO,# 1, ID ND,# 1, CARD ND,# 3 0000103000 0000000000 00000000 0555553805 550555555 7000000000 0000000000 00000000			·	
IRRORI	RECORD ND,# 3, CASE ND,= 1, ID ND,= 1, CARD NG,= 3 0000103000 000000000 00000000 0555553805 550555555 7000000000 00000000 00000000				
RROR I	RECORD NO.#\$ 3, CASE NO.#* 1, IN NO.#= 1, CARD NO.# 3 0000103000 00000000 000000000 0555553865 550555555 7000000000 000000000 00000000				
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ATTITUDINAL SURVEY DATA CLEANING MESSAGES COLUKN 21 ERROR: RECORD NO.# COLUMN 22 1, CARD ND = 3 ERROR: RECORD NO... GITP OUT OF RANGES =0 COLUMN 23 MECOND NO.# 3, CASE NO.= 1, IN NU.= 1, CARD NO.= 3 0000103000 000000000 00000000 0555553805 550555555 7000000000 0000000000 0170 CUT OF RANGET =0 COLUMN 30 ERROR: RECORD NO. . COLUMN 24 RECORD NO.= 3, CASE NO.= 1, ID NU.= 1, CARD NO.= 3 0000103000 000000000 00000000 055553805 556555555 7000000000 000000000 000000000 ERROR: RECORD NO.= 0178 OUT OF RANGES =0 COLUMN 25 HECHHD ND,# 3, CASE ND,# 1, ID NU.# 1, CAMD ND,# 3 0000103000 000000000 00000000 0555553805 550555555 7000000000 000000000 0173 DUT CF RANGE: #0 -01 UMM 34 ERROR: RECORD NO.+ COLUMN 26 ERHOR: RECORD NO.= COLUMN 27 1, ID ND,= 1, CAND ND,= 3

- ERRONI RECORD NO.= 3; C.SE NO.= 1; ID ND.= 1; CAND NO.= 3 0000103000 000000000 00000000 0555553805 550555555 7000000000 0000000000 0184 OUT OF RANGEI =5 COLUMN 32

- RFORI RECORD NC. = 3, C... NO.= 1, 10 HU.= 1, CARO NO.= 3 0900193011, 3000000000 0600000000 0555553895 550555555 7000000000 000000000 0180 DUI pF RANGEI =5 COLUMN 35

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ATT	ITUDINAL SURVEY DATA CLEANING MESSAGES	DATE 092679	PAGE	10	
EN ROR	I RECOMD NO.# 3, CASE NO.= 1, IN NO.= 1, CARO NO.= 3 0000103000 000000000 00000000 0555553805 550555555 7000000000 0000000000 018F DUT DF RANGE1 =3 COLUMN 37				
(RROR	RECORD NO.# 3, CASE NO.# 1, IN NO.# 1, CARD NU.# 3 0100103000 000000000 00000000 0555553805 550555555 71000000000 00000000 00000000 018 NOT SELF#CONSISTENT, COLUMNS 32=36 COLUMN 37				
RROR	N RECORD NO.= 3, CASE NO.= 1, IO NU.= 1, CARD NO.= 3 0000103000 000000000 000000000 055553805 550555555 7000000000 000000000 00000000				
RPOR	RECORD NU,====3, CASE ND,===1, ID ND,===1, CARD ND,==3 0001133000 000000000000000000000000000				
RORI	RECORD NO.= 3, CASE NO.# 1, IO NU.= 1, CARD NO.= 3 0404103000 00000000 000000000 0555553805 550555555 7000000000 000000000 00000000				
}P⊔R1	RFCARD ND,# 3, CASE ND,# 1, ID NU.= 1, CARD ND.= 3 0100103000 00000000 00000000000000000				
:RQR (	RECORD NO.# 3, CATE NO 1/ 10 HU.# 1/ CATO NO.# 3 DRORIO3000 000000000 000000000000 0000000000				
RORI	RECORD NG.= 3, CASL NO. 1, ID NU.= 1, CARD NO.= 3 0101103000 1010000000 000000000 0555553865 5505555555 7000000000 000000000 00000000				
RCRI	RFCORD NO.== 3, CASE NO.= 1, ID NO.= 1, CAMO NO.= 3 0000103000 000000000 0000000000000000				
RØRI	RECORD ND. 2 3, CA+2 NO.= 1, IN NO.= 1, CARD NO.= 3 0000103000 000000000 00000000 05555580555555555				
₹ØR1	RECORD NO.# 3, CASE NO.# 1, ID NO.# 1, CARD NO.# 3 0000103000 000000000 00000000 0555553805 550555555 7000000000 000000000 00000000				
1081	RECORD NO.# 3, CASE NO.# 1, ID NO.# 1, CARD NO.# 3				
£ german		yanya kangata data takan ingerang data takat kat	لاغار المحمد المعادية في المرد ، وما المرد المعالية المحمد المحمد المحمد الم	والمحاكم ومراوير والمرجوع فالمحافظ ومحاف	مەربىمىر

ITUDINAL SURVEY DATA CLEANING MESSAGES	DATE	092679	PAGE	11	
0000103000 000000000 00004000000 055553805 55055555 7000000000 0000000000000000	•				
RECARD NO,= 3, CASE NO.= 1, IN NO.= 1, CARD NO.= 3 0000103000 00000000000000000000000000				•	
RECORD NO.# 4, CASE NO.= 1, IN NO.* 1, CAND NO.# 4 noonlo4003 3000nonddo dogodduddo nadodduno dogoddoddo duddoddodd duddoddodd 23 not Consistent With 0221 023=33 022= 0 COLUMNS 8= 9, 10=11 RESPECTIVELY					
RECOHD NU.S 4, CASE NO.= 1, ID NU.= 1, CARD NU.= 4 DAGA104003 300AAAAAA 0000000000 0000AAAAAAA 00000000					•
RFCNRD NO,= 4, CASE NO,= 1, IN NO,= 1, CARD NO,= 4 0000104003 3000000000 000000000000000000					
RECORD NO.# 4, CASÉ NO.# 1, ID NO.= 1, CARD NO.# 4 0000104003 3000000000 000000000 000000000 000000					
RECOMD NO.= 4, CARE NO.= 1, ID NO.= 1, CARD NO.= 4 0000104003 3000000000 000000000 000000000 000000					
HECORD NO.= 4, EASE NO.= 1, IN NO.= 1, CARD NO.= 4 0000104003 300000000 00000000 00000000 00000000					
RECORD NO.# 4, CASE No.3 1, ID ND.= 1, CARD NO.= 4 0000104003 3000000000 000000000000000000					
RECORD NL, $3$ 4, CASE ND, $=$ 1, ID NU, $=$ 1, CARD ND, $=$ 4 0000104004 3000000000 000000000 000000000 00000000					
0000104003 300000000 000000000 00000000 0000000					
2003104005 3000030000 000000000 00000000 00000000					
	0216       DUT OF RANGET =5         CQLUMN 50         1       AECORD NG,#       3, CASE ND,#       1, IN ND,#       1, CARD ND,#       3         1       AECORD NG,#       3, CASE ND,#       1, IN ND,#       1, CARD ND,#       4         1       RECORD NG,#       4, CASE ND,#       1, IN ND,*       1, CARD ND,#       4         1       RECORD NG,#       4, CASE ND,#       1, IN ND,*       1, CARD ND,#       4         1       RECORD NG,#       4, CASE ND,#       1, IN ND,*       1, CARD ND,#       4         1       RECORD NG,#       4, CASE ND,#       1, IN ND,*       1, CARD ND,#       4         1       RECORD NG,#       4, CASE ND,#       1, IN ND,*       1, CARD ND,#       4         1       RECORD NG,#       4, CASE ND,#       1, IN ND,*       1, CARD ND,#       4         1       RECORD NG,#       4, CASE ND,#       1, IN ND,*       1, CARD ND,#       4         1       RECORD NG,#       4, CASE ND,#       1, IN ND,*       1, CARD ND,#       4         1       RECORD NG,#       4, CASE ND,#       1, IN ND,*       1, CARD ND,#       4         1       RECORD NG,#       4, CASE ND,#       1, IN ND,#       1, CARD ND,#	0 00010300         000000000         000000000         0555553045         55055557         7000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         0000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         0000000000         0000000000         0000000000         0000000000         0000000000         0000000000         0000000000         0000000000         0000000000 <td>0:0010300 00000000 00000000 0555553005 550555557 70000000000</td> <td>Boostidiade debonende belauwende GSSSSSiens SSSSSSSS 7000000000 ondedede debonende debonende debonende descende debonende dessessie de debonende one debonende debonende debonende debonende debo</td> <td>000010300         000000000         0555530mS         5505555557         7000000000         0000000000           2216         DUT GF RAAGET = 5         0000103000         05505530mS         550555557         70000000000         0000000000           0001015000         0000000000         05505530mS         550555557         70000000000         0000000000         0000000000           0001015000         0000000000         0000000000         0000000000         0000000000         0000000000         0000000000           0214         DUT OF RAAGET = 7         1, 10 MU,=         1, 1 CAND MU,=         1         000000000000000000000000000000000000</td>	0:0010300 00000000 00000000 0555553005 550555557 70000000000	Boostidiade debonende belauwende GSSSSSiens SSSSSSSS 7000000000 ondedede debonende debonende debonende descende debonende dessessie de debonende one debonende debonende debonende debonende debo	000010300         000000000         0555530mS         5505555557         7000000000         0000000000           2216         DUT GF RAAGET = 5         0000103000         05505530mS         550555557         70000000000         0000000000           0001015000         0000000000         05505530mS         550555557         70000000000         0000000000         0000000000           0001015000         0000000000         0000000000         0000000000         0000000000         0000000000         0000000000           0214         DUT OF RAAGET = 7         1, 10 MU,=         1, 1 CAND MU,=         1         000000000000000000000000000000000000

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DATE 092679 ATTITUDINAL SURVEY DATA CLEANING MESSAGES PAGE 12 COLUMN 24 ROR: RECORD NO.* 4, CASE NO.= 1, ID NU,= 1, CARD NO.= 4 B4 OUT OF RANGES =0 COLUMN 29 RORI RECORD NO... 4, CASE NO. = 1, ID NU,= 1, CARD NO. = 4 BS OUT OF RANGES =0 COLUMN 30 RORI RECORD NO.= 4, CASE NO.= 1, IO NU.= I. CARD NO = 4 υδοσιαμήαδ βυνασοποίο οσασοποίου αροσοσοποί οσασσαπος οσοποσοσης απόσοσηκο οσηπόσοσυσ BA OUT OF RANGES =0 COLUMN 31 ROR: RECORD NO.= ROR: RECORD NO.= AREA OUT OF RANGER 3 0 COLUMN 10 RECORD NC.# 6, CASE NU.# 2, ID NU.# 1083, CARD NO.# 2 0108302024 0319235033 0200011114 3133455354 4444536111 1000001211 3114000000 1000000000 FOR: RECORD NC.= ID NOT SAME AS ON PREVIOUS CARD. COLUMNS 1=5 IMAGE OF PREVIOUS AND 11 RECORD NO.= 7, CASE NO.= 2, TO NO.= 1083, CARD NO.= 3 0108303677 7477677677 7777676000 0001000200 0048101111 1000000000 00000000 000000000 IGRI RECORD NO.= ID NOT SAME AS ON PREVIOUS CARD. COLUMNS 1+5 IMAGE OF PREVIOUS CARD 18 OR: RECOND NO.= 7 CASE NO = 2, 10 NU,= 1083, CARD NO.= 5 OR! RECORD NO.= 7, CASE ND.= 2, IN NU.= 1083, CARD NG.= 3 0108303677 7677677677 777767600 0001000200 0048101111 100000000 00000000 00000000 0198(8=0) NUT 8 FUR CUMMUNITY MITH NOISE PRUGRAH 0198(8=0)=0 0 0 CCLUMNS 39=42 GRI RECORD NO... 8, CASE NO.= 2, ID NU.= 1083, CARD NO.= 4 ID NUT SAME AS ON PREVIOUS CARD. 1.1

ATTITUDINAL SURVEY DATA CLEANING MESSAGES	DATE 092679	PAGE	13	
RORI RECORD NO.* 9, CASE NO.= 3, ID NO.= 1063, CARD ND.= 1 0106301020 0240881011 0222720000 000000000 000000000 00000000	•			
TOTAL CARDS READ # 9				
FROGRAM ENDS FRAME				
F IGNCRED - IN CONTROL MODE KPT PHINTS				
ONSITE PRINTOUT ON SEPTEMBER 26, 1979 AT 10:08:35 ANTESTASTEVEDUT(1),				

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PROLEAN WRITTEN BY: DR. RACU SINGH, CSC LAST EDIT BY: "STEVENIGN CAGLESCH, CSC, FALLS CHLECH, VA	
	, , , , , , , , , , , , , , , , , , ,
ELLAIGHE DATA-RANCEST	
LCAR: 1 HINZ= 7	
HAX INT DATE	
LINCUT COMMUNITY NOISE PROGRAM	
U11101011 G110881111 1111230000 C0000000 G G000000 C0 G000000 G G000000 G G000000 G G000000 G G000000	n an an the second s Second second
EKRCR:         RECERD NG.=         12, CASE NO.=         3, IE NO.=         1113, CARD NG.=         4           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         <	· · · · · · · · · · · · · · · · · · ·
RRCR: ACCIRD NG.= 10, CASL NC.F 4, IF NO.= 1114, CARD NC.= 4 	››› • • • • • • • • • • • • • • • • • •
DIII4GIDII DIIUL6IIII ISII23CDOD DOGCHUNDCO DIDDOGACAC DDUGCOCCCC COADAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
<pre>RCR: BEEVRD NC.= 20, CASE NO.= 5, IP NO.= 1115, CARD NC.= 4</pre>	· · · · · · · · · · · · · · · · · · ·
AGES ON CARDS 1 AND 4 NOT SATE.	
IMALE OF PREVIOUS CARD 1: DIIISCIDIT DIIDBBIILI TIIISSUODE DODUCOADED D'ODDODAUDUC DOCADEUCE CECEBEDCEE DEDUCEDCOD IMALE OF PREVIOUS CARD 1:	a sea a s
PRCR:         RECORD         NO.=         75, 16 NO.=         7117, CARD NC.=         1           DINTOUDIN         DINGSBININ         NIN22000         CODUDODDCD         CODUDCCCCC         CODUCCCCCCC         CODUCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	· · · · · · · · · · · · · · · · · · ·
CARD FIELD VALUE = D COLIPHS 6-7	والمستحية فتقربهم والمراجع ويستحسب والوراس والس
RCR: FECCID NG.= 25, CASI NO.= 7, IF NO.= 1117, CARD NO.= 1 	
8444 PHUGNAM ENES ROOME	
	a construction of the state of

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#### APPENDIX D RUNSTREAM EXPLANATIONS

Note on punch card codes:

1.1

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חנטב אסבום

The Univac 1110 computer uses FIELDATA as its character representation code. The FIELDATA punch card representation of a character is sometimes different from the standard IBM 029 representation (EBCDIC). If the user's communication software will not perform the translation from EBCDIC to FIELDATA, it will be necessary to punch the cards according to the FIELDATA format.

The user should refer to Table D-1, pick out the character and its FIELDATA card code and then find which character the FIELDATA card code corresponds to in the EBCDIC code. This last character is what the user will punch on the card. The three most important cases are given below:

FIELDATA Character	FIELDATA Code	EBCDIC Character Punched to Generate this Code
G	7-8	11
(	Ø-4-8	%
)	12-4-8	<

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	Octal	Code	Funched Card Code	Punched Card Code
	00	e L	7-8 12-5-8	4-8
	02	3	11-5-8	12-8-2 11-8-2
	03	i i	12-7-8	}-8
	04	Å	21-7-8	11-7-8
	05	52	NO PUNCH	KO PUNCH
	06	*	12-1	12-1
	07	B	12-2	12-2
	10	c	12-3 12-4	12-3
	11	D E	12-4	12-5
	13	F	12-6	12-6
	14	Ċ.	12-7	12-7
	1 15	я	12-8	12-8
	16	I	12-9	12-9
	17	1	11-1	11-1
	20	K L	11-2 11-3	11-2 11-3
	21	H	11-3	11-3
	{ 25	н	11-5	11-5
	24	0	11-6	11-6
	25	P	11-7	11-7
	26	Q	11-8	11-5
	27	R	11-9 6-2	11-9
	30	S T	0-3	C-2 O-3
	32		0-4	0-4
	33	V	0-S	0-5
	34	¥ (	0-5	0~6
	35	x I	0-7	0-7
	36	Y	0-8	0-8
	37 40	2	0-9 12-4-8	0-9 11-8-5
	41	2	11-4-6	11-0-5
	42	+	12	12-8-6
	43	«	12-6-8	12-8-4
	44	-	3-8	6 8
	45	>	6-8	0-6-8
	46. 47	5	2-6 11-3-8	12 11-3-5
	50	\$	11-3-8	11-3-3
	51	i	G-4-8	12-5-8
	52	i (	0-5-8	0-4-8
	53	; (	5-8	2-8
	54	1	12-0	0-7-8
	55	:	11-0	12-8-7
	56 57	•	0-3-8	0-3-8
		•	0-6-8 0	0-8-2 0
-		ĭ	1	1
		2	2	2
]	63	3 J	3	3
		4	4	4
	65	5	\$	5
1		<del>6</del> 7		6 7
1		á l	<u>í</u> 1	8
		9	<b>j</b> 1	9
. 1	72	i. }	4-a	5-8
1	73	: [	11-5-8	11-6-8
1	74		0-1	0-1
ļ	75 76	: ]	12-3-8	12-3-8
	77	·	0-7-8 0-2-8	5,7 0-5-8
ł	• •	- 1	<b>→</b> • - •	0-5-8
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# TABLE D-1 COMPARISON OF FIELDATA AND EBCDIC

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## Explanation of Figure 3-1, First System Initiation Runstream

ORUN statement, required, sets job run priority to routine (R), core limit at 25 kWords, job run time limit to 30 seconds, and maximum number of print pages to 20.

- @PASSWD statement must be included only for batch jobs entered by card reader, otherwise it is optional.
- @DELETE deletes old disk files from system. The C option indicates that this job is not terminate if there is no old file to delete. The delete will not affect files saved on tape. These deletes are needed because if the file already exists, and one tries to @CAT it again, the job will terminate with an error.
  - GCAT statements enter (catalog) the file names into the system and reserve space on disk storage. Note that the system will assume the full form of each file name to be proj-id*file-name. unless the user specifies a different qualifier.

GFIN ends the job, and causes the print out and accounting data to be sent to the remote-site at which the job was entered.

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Explanation of Figure 3-2, Second System Initiation Runstream

The required @RUN card specifies the job run priority as routine. Core limit is set at 25 kWords, the run time limit is set at 4 minutes, and a hundred and fifty pages may be printed before the job will halt early.

**@PASSWD** statement is required only for batch jobs entered on with a card reader. For jobs submitted through a terminal this card is optional.

QDELETE, C will eliminate any old RAWDATA. file, if it should exist from a previous job, without terminating this run if it doesn't exist. This statement will insure that the next command, the QFILE, will not abort the job, as it would do if RAWDATA. did exist.

The @FILE,CR is used to create and initialize a new data file on disk. The C option indicates that the file will be cataloged only when the job terminates normally. The R option specifies that this is to be a 'read-only' file, which cannot be written to. (It is possible to clear this protection feature when necessary).

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All the data cards from the survey should follow. These will be put onto the disk file.

The @ENDF signals the end of the data to the processor called by the @FILE.

The @FIN indicates the end of the runstream. Any print out is sent to the remote site along with accounting information.

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## Explanation of Figure 3-4, Sample CLEAN Runstream

The required GRUN statement specifies that the job run priority is routine (R), with 13 kWords of core. It limits the job to 4 minutes of computer time and 500 pages of output.

The @PASSWD statement is required for batch jobs entered through a card reader. Otherwise, it is optional.

The @ASG,A assigns an existing file for the exclusive use of this run. In this case the ASDAS system program file, LISTEN*ATTITUDINAL, and the user created proj-id*RAWDATA. files are allocated for the run.

The @USE statement links the proj-id*RAWDATA. file to the FORTRAN unit number 10, the unit from which program CLEAN reads data.

The @XQT statement calls up the absolute binary element of CLEAN for execution and starts the program.

The CLEAN initialization card follows, with the format specified in Table 3-2. The runstream is accessed as the system default for the FORTRAN unit number 5.

GFIN ends the runstream, causing program output to be routed, along with accounting information, to the remote site.

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# Explanation of Figure 3-5, Runstream to Copy RAWDATA. to GOODDATA. file

The required @RUN statement sets the job run priority to routine (R). The core requested is 25 kWords of memory. Thirty seconds of run time and 50 pages of output may occur before the job is terminated.

The @PASSWD statement is required when the job is submitted through a card reader. Otherwise, it is optional.

@CHG,Z will clear the read-only protection from GOODDATA. so that writing can be done on it.

@ERS GOODDATA erases the file's old data.

With the @ASG, A two existing files, GOODDATA. and RAWDATA., are exclusively assigned for this run's use.

GCOPY RAWDATA., GOODDATA. duplicates the contents of the RAWDATA. file on GOODDATA.

@FREE releases the exclusive control of COODDATA. This is required so that the next command can successfully operate.

@CHG,V sets the file protection to read-only mode.

@FIN terminates the job and routes print out and accounting to the job's entry site.

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#### Explanation of Figure 3-6, Sample Edit Runstream

The @RUN sets the job priority as routine (R), and requests 35 kWords of core, 3 minutes of run time and 300 pages of output.

The @PASSWD statement is required only for batch jobs entered through a card reader. Otherwise, it is optional.

@CHG,Z releases the read-only protection from RAWDATA. so that changes can take place.

@ASG assigns RAWDATA for the exclusive use of this run.

QUS*ER.ED calls up the University of Maryland file editor, an enhanced version of the Univac @ED processor.

A blank record puts the editor into 'edit mode' from the initial 'input mode' condition which the editor enters automatically when it finds an empty file.

The editor directives, as described in Section 3.2.3.1, are to follow. The last command is EXIT, which will cause the editor to replace the old RAWDATA. file with the new, edited version.

@FREE releases RAWDATA so that the following @CHG can operate on it.

@CHG,V sets the file protection to read-only mode.

@FIN ends the job, routing print-out and accounting information to the site of submission.

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## Explanation of Figure 3-9, Sample VARIANCE Runstream

The @RUN statement sets the job run priority at routine (R), with 64 kWords of core, and a limit of 5 minutes of computer time, and 50 pages of printed output.

@PASSWD is required for batch jobs entered with a card reader, otherwise it is optional.

QCHG,Z removes the read-only protection from VARIANOUTPUT.

GERS erases the old contents of the VARIANOUTPUT, file.

@ASG,A is used to assign VARIANOUTPUT., LISTEN*ATTITUDINAL and GOODDATA files for the exclusive use of this run.

The @BRKPT statement shunts all of the job's printed output away from the temporary PRINT\$ file (that exists only as long as the run) to VARIANOUTPUT, thus saving the program's output for later reuse. Note that the non-standard syntax of this command requires that no period follow the file name (VARIANOUTPUT).

GXQT calls up the FORTRAN program VARIANCE which will process the GOODDATA. file and generate a listing of results.

This @BRKPT PRINT\$ statement reverses the effects of the previous @BRKPT, so that the accounting information will be routed to the submittal site in a normal manner.

@FREE will release the VARIANOUTPUT. file so that the @CHG following can operate on it.

@CHG, V sets up read-only protection for the VARIANOUTPUT. file.

The @SYM statement will route a listing of VARIANOUTPUT. to the specified site-id. Multiple copies (1 to 63) are specified by inserting a number between the two commas on this card. The U option specifies that VARIANOUTPUT. is not to be deleted once the @SYM process is completed (which will occur if the U is omitted).

@FIN ends the run and routes accounting information to the submittal site.

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Explanation of Figures 3-11, 3-12, 3-13, 3-13a, 3-14, 3-15, 3-16, Runstreams to run TAILOR

The @RUN statement specifies routine (R) priority, requests 35 kWords of memory, and limits run time to 3 minutes with no more than 30 pages of output.

The @PASSWD is required only for batch jobs submitted with a card reader, otherwise it is optional.

GCHG,Z clears the read-only protection from the user's proj-id*ATTITUDINAL. file.

The @ASG assigns 4 files for the exclusive use of this run. These are: LISTEN*ATTITUDINAL., proj-id*ATTITUDINAL., proj-id*TAILORINPUT., and proj-id*TAILOROUTPUT.

The @USE statements link up the FORTRAN unit numbers in TAILOR to the files assigned to this run. TAILOR reads from unit 4 and writes to unit 7.

Since the @COPY command cannot access the individual program elements of the LISTEN*ATTITUDINAL. file, the @US*ER.ED file editor is used to make the transfer instead. TAILORINPUT. is specified as the file being edited, the ADD command copies a source program from LISTEN*ATTITUDINAL. The EXIT command releases the editor's control.

The @XQT statement cause TAILOR to begin execution. Like CLEAN, TAILOR will read from FORTRAN unit 5, which is the NCC default for the runstream. At least 1 record with the TAILOR control flags must follow, as described in Section 3.4. Any SPSS source language statements to be inserted must follow the flag record, as shown in Figure 3-13a.

@EOF signals 'end of file' to TAILOR.

The @COPY,I can be used to take the TAILOROUTPUT. data file and include it as a program element in the proj-id*ATTITUDINAL file. As noted previously, the reverse case is not possible, necessitating the use of the *US*ER.ED editor.

The GFREE releases the user's ATTITUDINAL. file so that the next command can operate properly on it.

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@CHG,V restores the read-only protection to the ATTITUDINAL. file.

@FIN ends the runstream and routes the job print out and billing information to the site of submission.

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# Explanation of Figure 3-19, Sample RECODE1 Runstream The required @RUN statement sets the job run priority to routine (R), requests 64 Words of memory, and limits run time to 5 minutes, with a maximum of fifty pages printed output. An @PASSWD statement is needed for batch jobs submitted through a card reader. Otherwise, it is optional. @CHG,Z is used to remove the read-only file protection from two files, SYSFILEL. and ZSCORES. ۰... @ERS erases the old contents of the above files. بعنم The NCC SPSS utility program is assigned to this run. This is because this 17 processor may have been 'rolled out' if it has not been recently used. The assignment insures that this job will not abort with a FILE ERROR type message. Files ATTITUDINAL., SYSFILEL., ZSCORES., and GOODDATA. are assigned to the run. The GUSE statements link the file name with the unit numbers required by the SPSS utility. Unit 4 is written to since a SAVE FILE or ARCHIVE FILE is used in the program. Unit 8 is the data input and Unit 20 is the Z-Scores output. The statement @LIB*SPSS7-2.SPSS starts the SPSS package execution. F.a. The GADD command has the effect of adding to the runstream, at the location of 19 the @ADD statement, all of the data and/or control statements in the specified file element. Thus, this is the equivalent of having the SPSS program in ATTITUDINAL.RECODE1 on punched cards following the @LIB statement. GEOF insures that the SPSS processer gets an end of file condition once the 1-4 SPSS program is completely processed. SYSFILEL. and ZSCORES. are @FREEed so that the @CHG,V can successfully restore the read-only file protection. 1 @FIN ends the job, routing print-out and billing information to the site of job submission.

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#### Explanation of Figure 3-20, Sample RECODE2 Runstream

The @RUN statement sets the job run priority to routine (R), reserves 64 kWords of memory and limits run time to 5 minutes with a maximum of 40 pages of print out. The @PASSWD statement is required for batch jobs submitted through a card reader, otherwise it is optional.

@CHG,Z removes the read-only protection from file SYSFILE2.

GERS erases the old contents of SYSFILE2.

@ASG,A assigns existing files to this job. These are: proj-id*ATTITUDINAL. (filled by TAILOR), LIB*SPSS7-2. (the SPSS package file), SYSFILE1., SYSFILE2. and ZSCORES. Note that the SPSS file is assigned so that it is sure to be available when it is called up for execution.

The @USE statements link the assigned files to the unit numbers that SPSS requires. Unit 3 is for the SPSS 'GET FILE' statement. Unit 4 is for the SPSS 'SAVE FILE' or 'SAVE ARCHIVE' statement. Unit 8 is reserved as input for raw-data-input files.

The @LIB*SPSS7-2.SPSS calls up the statistical package for execution.

The @ADD statement has the effect of adding to the runstream the contents of the specified file element, RECODE2. Thus, this is the equivalent of having the SPSS program RECODE2 on punch cards following the above @LIB.

GEOF insures that the SPSS package gets an end of file condition once it has finished with RECODE2.

@FREE releases the SYSFILE2. file from the exclusive control of this job, so that the following command will function properly.

@CHG,V restores SYSFILE2. to read-only status.

GFIN ends the job, causing print-out and accounting information to be routed to the site of submission.

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#### Explanation of Figure 3-21, Sample FREQUENCIES Runstream

The GRUN statement sets the job run priority to routine (R), requests 64K words of memory and limits run time to 8 minutes, with a maximum of 600 pages of output.

@PASSWD is required for batch jobs entered on a card reader, otherwise it is optional.

QCHG, Z removes the read-only protection from file FREQOUT.

QERS erases any old contents of FREQOUT.

The @ASG assignment of LIB*SPSS7-2., the system SPSS utility, is done to insure that it is available for use, not rolled out.

Files SYSFILE 2., ATTITUDINAL. and FREQOUT. are assigned to the run.

GUSE links up the unit number that SPSS requires for the 'GET FILE', unit 3, to SYSFILE2.

@BRKPT diverts the job's printed output to the FREQOUT. file. PRINT\$ is a temporary file created for each job that disappears once the @FIN routes it for printout. Note the syntax of this statement required that the normal period after FREQOUT should be omitted.

@LIB*SPSS7-2.SPSS calls up the system's SPSS utility for execution.

The @ADD command has the effect of adding to the runstream the contents of the specified file element, ATTITUDINAL.FREQUENCIES. Thus, this is the equivalent of having the SPSS program in the file element on punch cards following the above @LIB statement.

#### D-13

GEOF insures that the SPSS package gets an end of file condition once the contents of ATTITUDINAL.FREQUENCIES has been used.

GBRKPT PRINT clears out the previous GBRKPT settings, so that the accounting information is routed in the normal manner.

@FREE releases FREQOUT. from the exclusive control of this run, so that the @CHG can operate on it.

QCHG, V restores the read-only file protection to FREQOUT.

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@SYM,U sends a copy of the FREQOUT. file to the specified site-id. The ,U option is required to keep FREQOUT. from being deleted after this process is complete.

@FIN ends the job and routes job accounting to the site where the job was entered.

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#### Explanation of Figure 3-22, Sample Runstream for CROSSTABS

The GRUN statement sets the job run priority to routine (R), reserves 64K words of memory, limits run time to 10 minutes, and gives the maximum number of pages as 600.

@PASSWD is required for batch jobs entered through a card reader. Otherwise it is optional.

QCHG, Z removes the read only file protection from XTABSOUT.

GERS erases any old contents of the file XTABSOUT.

The system utility LIB*SPSS7-2. is assigned with the @ASG,A so that it is sure to be available when it is called up for execution. The other files that are assigned are SYSFILE2., ATTITUDINAL., and XTABSOUT.

The QUSE statement links the unit number 3, which SPSS expects for input, to the file SYSFILE2.

@BRKPT diverts the job's print out to the XTABSOUT. file, away from the temporary PRINT\$ file.

@LIB*SPSS7-2.SPSS calls up the system's SPSS processor for execution.

@ADD will add to the runstream the contents of the specified file element ATTITUDINAL.CROSSTABS. This is the equivalent to having the SPSS language statements in this element on punch cards following the above GLIB.

GEOF insures that the SPSS utility receives an end of file condition after it has finished with the CROSSTABS element.

GBRKPT PRINT\$ restores the normal flow of output to the temporary PRINT\$ file, so that the job accounting is handled in the normal manner.

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GFREE releases XTABSOUT. from exclusive control of the job, so that the following @CHG command can work.

@CHG,V restores read only protection to the XTABSOUT. file.

@SYM,U sends a copy of XTABSOUT. to the specified site-id. The ,U option indicates the normal delete action of the @SYM is not to take place.

GFIN end the job, and routes accounting information to the job submission site.

D-16

Explanation of Figure 3-23, Sample REGRESSIONS Runstream The @RUN statement sets the job run priority to deferred (D), requests 64K words of memory. Runtime is limited to 20 minutes, with a maximum of 600 pages printed output. @PASSWD is required for batch jobs entered on a card reader, and is optional otherwise. CCHG,Z removes the read-only protection from the REGRESSOUT. file. GERS erases any old data in REGRESSOUT. CASC, A assigns the system's SPSS utility (LIB*SPSS7-2.) to this run, insuring that it is available for use. Files SYSFILE2., ATTITUDINAL., and REGRESSOUT. ι., are also assigned. 1000 1., GUSE links the unit number 3, the unit from which SPSS expects input, to the file SYSFILE2. 1.20 制品 GBRKPT diverts the run's printout away from the temporary PRINTS file to the 6A 11 cataloged (permanent) REGRESSOUT. file. Note that the syntax requires the 124 absence of the normal period usually found after the file name. @LIB*SPSS7-2.SPSS calls up the system's SPSS processor for execution. 114 1.1 GADD will add to the runstream the contents of the file element 100 ATTITUDINAL.REGRESSIONS, accing as if its contents follow the 3LIB statement above. GEOF insures that the SPSS utility receives the end of file condition once the REGRSSIONS element is finished. @BRKPT restores the normal flow of print out to the temporary PRINT\$ file, so $\{ \Box \}$ that the billing information is handled normally.

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@FREE releases REGRESSOUT. from the exclusive control of this run, so that the next command will operate on it.

@CHG,Z restores the read-only protection to the REGRESSOUT. file.

@SYM,U sends a copy of the REGRESSOUT. file to the specified site-id. The ,U option inhibits the @SYM's normal action of deleting the file once the copy has been printed.

@FIN ends the job, routing print-out and biling information to the site of submission.

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Explanation of Figure 3-24, Runstream to Archive ASDAS Results

The required @RUN statement will set the job run priority to routine (R), with a requested 35K words of memory, one tape drive unit, and a run time limit of 5 minutes.

The @PASSWD statement is required for batch jobs entered with a card reader and is otherwise optional.

@DELETE, C removes the specified tape name from the system. The C option indicates that the job is to continue (not error abort) if there is no existing file name to delete. Removing the file here insures that the next command will always work. This procedure does not affect the contents of the tape.

@ASG,U assigns the tape reel indicated by tape-num to the newly created file name/tape name as specified by the ,U option. The P designates the file as public, the /W is to allow writing to the tape, //ASDAS specifies a write-key of 'ASDAS', and 36N indicates a nine track tape.

QUSE sets up a logical link between the tape file and the name OUTTAPE. so that references to OUTTAPE. actually result in access to the named tape file. This is done to make the runstream more self explanatory.

The ASDAS program and data files are assigned to this runstream.

GCOPOUT (with no options specified) will copy the entire contents of the ATTITUDINAL. program files to the tape file.

GCOPY is used to duplicate on the tape the data files created by running the ASDAS system.

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	@REWIND performs a rewind on the tape file so that the next command can find
~	the files just copied to it.
····	@US*ER.FLIST is a utility processor that produces file listings, the ,B
·,	option is for the brief format giving the name and type of each file on OUTTAPE.
~	@FIN ends the job, routing print out and accounting data to the site where
\sim	the run was submitted.
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Explanation of Figure 3-25, Runstream to De-Archive ASDAS Results

The GRUN sets up a routine (R) priority job that requires 35K words of memory and one tape drive. Five minutes of CPU time can be used before the run will terminate.

CPASSWD is required for batch jobs submitted with a card reader. Otherwise it is optional.

@DELETE is used to delete the specified files if they currently exist. The C option allows the run to continue if the files do not exist. Deleting the files allows the following statements to operate successfully every time, preventing job error termination.

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@CAT catalogs the specified files as disk storage files. The @ASG,U assignment is not done in this case since the following COPY processors do an automatic assign anyway.

The @DELETE,C removes the tape file name from the system, if it exists, so that the ,U option on the next command will not halt the job abnormally.

QASG,U creates a new tape file name, and links it to the tape reel number indicated. 36N specifies a 9 track tape. No write-key is provided in this assign, since the job only requires that the tape be read.

QUSE logically links the tape file name to the designation INTAPE. Any reference to INTAPE. from this point on will access the tape file, allowing a more descriptive runstream.

OREWIND insures that the tape reel is at the starting point.

@COPIN copies the program files from the tape to the indicated disk files. @COPY copies the data files from the tape to the disk files specified. Note that the order of the files on the tape as it was written (see Figure 3-24) must be preserved if the disk file names are to match their contents.

GFREE releases the tape drive and tape real from exclusive use of this run since the copying is done. Omitting this will unnecessarily tie up the tape drive until the run is over.

OHDG sets up a print page header as specified. Since no options are specified date and page numbers are automatically added as well.

@PRT.T lists in readable form the 'table of contents' that the system uses to keep track of program files. The program element names and pertinent information are printed. Note that for batch jobs the long or full format will be printed. In demand processing jobs the brief format will be used unless the L option is also added.

A new @HDG heading is set up, and @PRT,T is used to list the 'table of contents' for the second program file.

GHDG,N will reverse the results of the previous GHDG, so that printout is no longer given page headings automatically.

@SYM creates listings of the indicated files printed separately from this runstream's printout at the indicated site-id. The U option inhibits the normal delete action of @SYMing.

GFIN ends the job and routes printout and accounting information to the site of job submission. D-22

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	<i></i>	Explanation of Figure 3-26, Sample Runstream to Delete	
		LISTEN System	
	-		
	<i></i>	CRUN sets up a routine (R) priority job and requests 35K words of memory.	
	₽ # -	CPU processing time is limited to 30 seconds and 20 pages of printout is	
		specified as the maximum.	
	 .		
	i.	@PASSWD is required only for batch jobs entered with a card reader, and is	
	•	optional in all other cases.	
	-	@DELETE removes all of the user created disk files from the system, releasing	
	、	the space for other use.	;
:	e 1	@FIN ends the job and routes printout and accounting information to the site	•
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	, -	where the job was submitted.	
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APPENDIX E UNIVAC ECL SUMMARY

This section is intended to provide a brief description of those Executive Control Language (ECL) commands which are most frequently used. It is not intended as an ECL Manual. For additional information the user should consult the EPA National Computing Center User Reference Manual (8), Volume VII. Table E-1 lists the commands which are discussed in this section. Figure E-2 describes the conventions used in presenting these commands.

E.1 RUN CONTROL STATEMENTS

This subsection contains discussions of the most commonly used statements used in job control.

E.1.1 The GRUN Statement

The @RUN identifies a run and provides to the system certain parameters necessary for scheduling and accounting purposes. The format of the @RUN Statement is: $\Re UN$, $\langle p \rangle \langle 0 \rangle \beta \langle runid \rangle \langle core \rangle \langle tapes \rangle \langle disk \rangle$, [account] / $\langle userid \rangle$, $\langle project \rangle \langle class \rangle$ Where $\langle p \rangle$ =priority defined as follows:

P = preferred h:	ghest priority/cost
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- R = routine standard priority/cost
- D = deferred lowest priority/cost
- ∦ = routine
 - default

 $\langle 0 \rangle = options$

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S = run is to be sequenced after previous run from the input deviceR = restart run in the event of a failure

(runid) = 1-6 alphanumeric characters

core> = maximum core required in decimal thousands of words (defaults: batch = 45k, demand = 65k)

(disks) not currently used

[account] = must be a valid account number

<project) used by the system as a default qualifier for filenames</pre>

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(class) = class where

- P = production
- D = development
- $N, \beta = unspecified$

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	• • •		00, maximum = 999	
start-time	= specifies de	lay time after w	hich run will be	considered
			put of Dhhmm spec	
	wall clock t	lme at which run	will be consider	ed for
	execution			
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		F., 2		
		E-2		

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Table	E-1.	ECL Summar	C Y

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Туре	Command	Page	Description
Run Control	@RUN	E-1	Initiates a run control stream
	@FIN	E	Terminates a run control stream
	@ADD	E-4	inserts data or control statements from another file.
	(∳START ·	£-5	Schedules a batch job from within an executing job (demand or batch)
File Control	(¢ASG	E-5	Assigns a mass storage file for subsequent uso by the run
	@FREE	E-7	Frees an assigned file
	@USE	E-8	Equates an external filename to an internal, or simply a
			shorter filename
	@SY M	E-8	Outputs a print file to an on-site or remote printer
	@QUAL	<u>и</u> -9	🐘 Defines a default filename qualifier
l I	@BRKPT	E-9	Switches standard output unit to a user specified file
	@XQT	• E-10	Executes an absolute element
	@DATA	E-11	Allows user to build a data file
	@ELT	E-12	Allows user to build a program file element
	@END	E-13	End-of-data card for @Data or @ELT statement
Utility	@COPY	E_14	Copies one file/element to another
	@delete	E-15	Deletes a file from the catalogue
	@CIIG	E-16	Changes the characteristics of a file

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Туре	Command	Page	Description
Utility	@PRT	E~16	Prints a file (or an element) or its directory
	@ MOVE	E-16	Moves a tapo file past an end-of-file mark
	@REWIND	E-16	Rewinds a tape file
			·
		.	

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Table E-1, ECL Summary (Continued)

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E.1.2 The GFIN Statement

The @FIN Statement signals that the end of a run has been reached. It must be the last statement of each run control stream. The format of this statement is:

QFIN

When a GFIN statement is encountered, the Executive accounting routines are initiated in order to produce the run session statistics.

E.1.3 The @ADD Statement

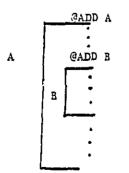
The GADD Statement provides the capability of inserting ECL statements and data images from a file into the run control stream. The file must be in the system data format (SDF); i.e., must have been created by the MUS*ER.ED, MDATA, GFILE or GELT statements or a user program. The format of this command is:

GADD, options Sfilename

where options =

- D allows insertion of files or elements under the DATA or ELT processors.
- E return control as if an @EOF had been encountered when the end of the file is reached.
- L lists all control statements encountered in the added file (demand only).
- P the GADD statement is to be printed in the output listing.

Following the end of the added file the control stream is automatically resumed at the image following the @ADD statement. @ADD files may be nested to a level of 63, i.e.,



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The user must be careful not to use statements in an inner @ADD which alter the content of an outer @ADD.

E.1.4 The @START Statement

The @START statement allows the user to submit a run from within an operating runstream (batch or demand). The simplest format of this statement is:

@START, /<o>b<filename><, set>

where = priority as discussed in E.l.l

<o>= options as discussed in E.l.1

contains an octal number to which the condition word of the run to be started will be initially set

If a user wishes to change any parameters of the GRUN Statement contained in the file, a more complex-version of the statement may be used:

@START, 4p// <obj (filename), set // siteid /, runid /, account / , project /, runtime) / pages / / cards /, start time >

where each parameter is defined above or in paragraph 9.1.1.

E.2 FILE CONTROL STATEMENTS

This section discusses the most commonly used file control statements.

E.2.1 The @ASG Statement

The GASG statement is used to name an external file to be assigned to the requesting run. The statement has two basic formats, depending on device type:

o Mass storage -

@ASG, %filename> <, cype> </ reserve> // granule> </ maximum>

where o = options as follows:

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- C specifies that the file is to be catalogued only if the run terminates with no errors.
- U specifies that the file is to be catalogued regardless of manner of run termination.

R - specifies that the file is to be catalogued as a read-only file.

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- P specifies that the file is to be catalogued as a public file, i.e., any run may access the file.
- D specifies that the file is to be decatalogued only if the run terminates with no errors.
- K specifies that the file is to be decatalogued regardless of the manner of termination.
- X specifies that the run is to have exclusive use of the file.
- A specifies that the file is currently catalogued.
- Y specifies that the file is assigned solely for the purpose of examining the master file directory.

T - specifies that a temporary file is to be created for this run only. filename = has the format

qualifier*file(cycle)/r-key/w-key

The components of the filename are described in detail in the Executive System Programmer's Reference Manual. The following fields are ignored if the file is currently catalogued:

```
type = device type (See NCC Users Guide[3])
```

reserve = number of granules to be reserved for the file

```
granule = granule size
```

TRK (one track, 1792 words)

POS (one position 114, 688 words)

maximum = maximum number of granules to be assigned to the file

```
o Magnetic tape
```

```
JASG,o/subb<filename,type/units/log/noise,reel,/reel_/...</pre>
```

where o = options from the following:

C, U, R, P, D, K, A, T as defined above.

sub = W - specifies that a write ring is to be placed in the tape when mounted

E - even Parity . O - odd

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B - binary (no translation)

I - translate Fieldata to BCD during write, BCD to Fielddata during read

type= T - specifies tape, type independent

16 - 7 track tape

36N - 9 track tape

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units = integer specifying the number of units log = single character to indicate a logical channel noise = decimal constant specifying minimum frame count to be read reel/reel/ ... = specifies reel numbers (assigned by the tape librarian) 1 2 in the order to be used.

E.2.2 The @FREE Statement

The @FREE statement de-assigns a file when no longer needed by a run. The format of the command is:

GEREE, ecfilename

where the following options are available:

- A Release only the @USE-attached.name specified in filename field. Take no other action unless indicated by other options.
- B Release the GUSE-attached name specified in filename field. If this is the only GUSE-attached name, FREE the file.
- D Drop this catalogued file from the master file directory. In order for this to be accomplished, the file must be assigned with valid keys, if keys exist in the master file directory.
- I Inhibit cataloguing of a file that was assigned using GASG,C or 9ASG,U.
- R Do a @FREE, but do not release any @USE-attached names (unless the A option is also used). Save all pertinent information to reestablish the assignment.
- S Do a @FREE of the file but retain the physical tape unit.
- X Remove this run's 'exclusive use' lock from an assigned file. Take no other action unless indicated by other options.

A file that is named on a @FREE statement can no longer be referenced by the run; it can, of course, be re-established by an @ASC statement, provided its facility requirements can be met.

E.2.3 The GUSE Statement

The GUSE control statement enables the user to refer to any particular file by two or more names. The need for the additional names arises from three conditions:

 Simplify run construction by allowing the equating of an 'external-filename' to a shorter 'internal-filename'.

- Resolve identical filename portions to 'external-filename' or 'attached' names.
- 3. Connect names coded into programs to 'external-filename' or 'attached' names.
- The format of the QUSE statement is as follows:

GUSEN<internal-filename>,<external-filename>

where 'internal-filename' is the 12 character name by which the file is referred to within the run or after the GUSE statement in the control stream and 'externalfilename' is the name under which the file is to be assigned or is assigned (and possibly catalogued). The 'external-filename' has the standard filename format.

E.2.4 The @SYM Statement

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The @SYM statement provides the user with the capability of selecting a symbiont, or class of symbionts, to print or punch selected files. When a @SYM statement is encountered the specified file is entered into the specified symbiont queue. Any file which is to be printed or punched must be scheduled for processing with the @SYM statement. The format of the @SYM statement is:

@SYM, <>>><filename>, <number), <device-name>Where o = a combination of the following:

- A Specifies all files on the tape are to be printed (punched) in the order they appear on the tape; therefore, the filename given on the @SYM statement must be a tape file.
- C Directs the file to the card punch at the remote site specified in the device field. If omitted implies printing when @SYMing to a remote site.
- D If this option is specified and the filename is the generic name PRINTS, the current part of the PRINTS file is deleted at the time the file is closed and no output is produced.
- U Inhibits decataloguing of the file when processing is completed; applicable only to user-defined files.
- filename -specifies the file to be processed and directs tape mounting required. Filename must be catalogued.

number -specifies the number of copies of output. This field is omitted if only one copy is required.

device-name -specifies the name of the print or punch device to which output is directed, (remote siteid or userid).

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E.2.5 The @QUAL Statement

The GQUAL statement allows the user to specify a filename qualifier for implied usage on succeeding control statements involving filenames. The format of this statement is:

@QUALpqualifier

where:

qualifier is an alphanumeric field which precedes filenames separated by an asterisk (*).

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The following is an example of the use of the RQUAL statement: RQUAL MIXE

A subsequent use of the filename

*CONTROL.

would be interpreted as

MIKE*CONTROL.

E.2.6 The @BRKPT Statement

The @BKRPT statement is used to close output symbiont files. The symbiont files closed by the @BRKPT statement must be the mormal print and punch files produced by PRINTS and PUNCHS or alternate print files produced by PRINTAS and FUNCHAS. The @BRKPT statement has three basic formats as follows:

@BRKPT%PRINT\$

o @BRKPTEPUNCHS

This format of the @BRKPT statement causes the current normal print of punch file to be closed and queued for printing or punching and starts a new normal print or punch file.

o @BRKPT&PRINT\$/filename

GBRKPT%PUNCH\$/filename

This format of the @BRKPT statement causes the current normal print or punch type output to a file whose name is specified in the 'filename' field. The 'filename' must currently be assigned to the RUN with the Project-id as the file qualifier or no qualifier.

o @BRKPTVfilename

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This format of the @BRKPT statement causes the alternate print or punch file specified in the 'filename' field to be closed.

If the alternate print or punch file was assigned by the system, the file will be freed and queued for printing or punching. If it was

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assigned by the user, a @FREE and @SYM statement must occur to print or punch the file, as shown in the following example:

@ASG,A&OUTFIL. @BRKPT&PRINT\$/OUTFIL @US*ER.COPIE,CK&INFILE. @BRKPT&PRINT\$ @FREE&OUTFIL @SYM,U&OUTFIL,,PR

E.2.7 The GXOT Statement

For executing an absolute program, the following control statement is used:

2XQT, (0) & (filename)

- o =Any 'options' specified are available to the user's program by the OPTS Executive Request whenever it is initiated.
- filename = 'filename.eltname/version'; specifying the absolute program to exacute. The subfield 'filename' is the name of the file; 'eltname/version' identifies the element (and version, if any). In the absence of an absolute element, all of the relocatable elements in the file are both collected and executed (a relocatable element may be explicitly named on an @XQT statement, however).

E.2.8 The @DATA Statement

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The @DATA Statement may be used to introduce standard format data files, found in the control stream, into the system for residence on a mass-storage device. A primary use for this feature is to allow the user to build data files which are actually whole or part of control streams. These files can then be called on by the @START statement to start an independent run, or by the @ADD statement for inclusion into the current run or a subsequent run. A data file correction feature is also available via the @DATA statement. The user can make a correction to an independent run stream and then @START it, or make corrections to a partial stream and then @ADD it to the run. The @DATA statement can, of course, simply be used as a convenient means of generating and maintaining a user data file," rather than a control-stream type file.

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The format of the @DATA statement is:

@DATA, (0) & filename, K filename, Sentinel

where o =

L - Produce a complete listing of the file.

U - Update. Produce a new file cycle specified by filenamel

I - Insert. Initial insertion of data into the data file specified in filenamel.

filenamel - specifies the name of the file to which the data images following the @DATA statement apply.

filename2 - specifies the updated file to be generated when no options are input.

If the 'I' option is omitted, and both <filenamel> and <filename2> are specified, the data images following the @DATA control statement are interpreted as corrections to<filename1>. A new updated file identified by <filename2> is generated. If the 'options' and <filename2> fields are omitted, the 'L' option is assumed. <filename1> is listed but no new file is generated. The 'U' option creates a new f cycle of 4filename>.

E.2.9 The CELT Statement

The @ELT control statement introduces an element into a particular program file from the control stream. It may also be used to make corrections to a symbolic element in a program file. The element or the corrections follow the @ELT statement in the control stream.

The format of the @ELT statement is:

@ELT, <o>>> &filename, > <, filename, > , sentinel

where o =

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R Relocatable element

S Symbolic element

D Data element

I Insert. Initial insertion of an element into a program file

U Update. Produce a new cycle of a symbolic element.

L Produce a listing of the complete symbolic element.

The options 'A', 'R', 'S', and 'D' identify the element type. Types 'S' and 'D' are both considered symbolic elements and may be corrected in the same manner.

The @ELT statement indicates the element processor which operates in one of two modes. It inserts new elements into the program-file from the control stream and updates an element already in the program-file.

The Gilename $_{1}$ field identifies the input element by filename, elementname, version and cycle (when appropriate).

When the 'l' option is specified, the element in the control stream is given the name specified in the filename field and inserted into the program-file specified in the filename field.

When the 'U' option is specified, the corrections in the control stream are applied to the element identified in the filename plied, and a new cycle of the symbolic element is placed in filename >, filename, remains unchanged.

When the $\langle \text{filename}_2 \rangle$ field is present and the 'U' option is not specified, the corrections in the control stream are applied to $\langle \text{filename}_1 \rangle$ field and inserted into the program file specified in $\langle \text{filename}_2 \rangle$.

The 'L' option will produce a complete listing of a symbolic element. The 'L' option is not applicable for absolute or relocatable elements.

The 'data element' may contain control statements. Therefore, the data following the @ELT,D statement must be terminated with an @END statement with a sentinel exactly the same as found on the @ELT,D statement. The sentinel field need not be coded (blank sentinels). It is a six character field used to match up pairs of @END and @ELT statements. All images between matched pairs of sentinels will go into the data element being created. The @ELT,D statement may be used to insert @RUN or @ADD control streams into a program file as elements which may be called later by the @START or @ADD statement.

Element types 'A' and 'R' and 'S' are terminated by the next non-@EOF control statement in the control stream. They need no corresponding @END command.

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E.2.10 The @END Statement

The @END control statement marks the end of the data that follows a @DATA or @ELT,D statement. The format of the @END statement is:

@END\${sentinel>

The sentinel field is optional. It is coded exactly the same as the corresponding field on a @DATA or @ELT,D statement when being used to bracket images of the data.

E.3 UTILITY ROUTINES

The NCC provides a set of standard File Utility Routines and Program Utility Routines (FURPUR) which consists of maintenance routines for files containing data or programs. This paragraph discusses some of the most frequently used commands.

E.3.1 The GCOPY Command

The @COPY command copies an entire file by reading tape or mass-storage and writing to tape or mass-storage. @COPY manipulates both program and data files. The only partial file operation allowed is to add an element from one mass-storage program file to another mass-storage program file.

The format of the @COPY statement is:

@COPY, <o>>><filename,><filename,>

where:

<filename > =input filename or eltname

<filename >= 'output filename or eltname

and (o) =

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None - (filename) is copied to (filename)

P - An entire program file is to be copied from filename₁ to <filename₂>(both of which are MASS-STORAGE files). Deleted elements are not copied (see @DELETE), and <filename₂> is packed. The table of contents for <filename₂> is updated. The entry point table of <filename₂> is not reconstructed and the file must be prepared by the @PREP statement if it is to be used in a LIB statement to the MAP processor.

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The following 'options' are available for dealing with elements: I - The input file named $\langle \text{filename}_1 \rangle$ is source code data in System Data file Format (SDF). These data are to be added to a program file. The program file and the identification to be given to the new element are described in the $\langle \text{filename}_2 \rangle$ as program file element/version. The symbolic element is given a cycle number of O when it is inserted into the program file.

S,R,A - These three options may be used singly or in combination for copying elements from one program to another: 'S' for symbolic, 'R' for relocatable, and 'A' for absolute.

E.3.2 The ODELETE Command

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The @DELETE command may be used to delete one or more entries from the master file directory or one or more elements from a program file on mass-storage.

If an entire file is deleted from mass-storage, the storage area is released for reuse.

If a program file element is deleted, the element table entry is flagged but the physical storage area on mass-storage remains assigned until a 3PACK command is found.

The GDELETE statement has the following format:

 $(DELETE, \langle o \rangle)$ $(filename_1)$, $(filename_2)$, ... $(filename_n)$ No options apply when deleting a catalogued file. The available options for program file element deletion are S,R, and A.

Several elements of the same type may be deleted by the same command. Each element must be described by name and must be from the same file. Version name should be included as needed to further identify the element.

Deletion of multiple elements in a file may be accomplished by additional specification fields to the command card (via @DELETE (filename₁); filename₂...) where $\{filename_1\}$ is of the form filename.eltname/version and $\{filename_2\}$ thru $\{filename_n\}$ are of the form eltname2/version2., eltname3/version3, etc.

E.3.3 The @CHG Command

The @CHG command changes the name and security keys (read-key, write-key) of a catalogued file.

The format to change the name of a catalogued file is as follows:

@CHG, <o>% filename

Note: @CHG for filenames is not currently implemented See Volume 3, Section 4.2.15 of the UNIVAC Executive System Programmers Reference Manual for explanation of options.

E.3.4 The @PRT Command

The GPRT command prints information about a file on the contents of a source element of a program file.

This control statement does not list absolute or relocatable elements. The GPRT statement has the following general format:

GPRT, <o>Kfilename, ><, filename, ><, filename>

where o =

T - List the table of contents for the program file named in $\langle filename_1 \rangle$. Additional program files may be specified in $\langle filename_2 \rangle$ F - Lists directory information about a file No option - List the symbolic element. $\langle filename_1 \rangle$ must specify an element name. Any number of symbolic elements may be listed by this option.

E.3.5 The GMOVE Command

The GMOVE command will move any tape file forward or backward over a specified number of end-of-file marks.

The @MOVE statement has the following format:

@MOVE, <>>> <filename,>,n

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where o =

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If the 'option' field is omitted the tape is moved forward. If the tape is to be moved backward, the option is "B".

filename - name of the tape file to be positioned

n - number (decimal) of end-of-file marks past which the tape is to be moved.

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E.3.6 The CREWIND Command

The GREWIND command rewinds a magnetic tape file to the load point. The format of this command is:

@REWIND, [1]%<filename_><,filename_>...

where

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I - specifies interlock, i.e., the peripheral unit may not be accessed after rewind until the operator has cleared the interlock condition.

 $filename_{1} - specifies the names of the files to be rewound.$

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CR	-	carriage return
Ø.	-	blank
< >	-	item inside carats to be provided by user
>	-	Univac 1110 prompt character
NNNN	-	underlined item to be entered by user
NNNN	-	non-underlined item response by computer

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Figure E-1

Notation Conventions

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APPENDIX F GLOSSARY

a community to determine noise levels within the community. Alternate Print File A user specified data file that is used in place of the temporary system created PRINT\$ file to save the print generated by a run so that it can be looked at later. The alternate file is set up by the statement 3'BRKPT PRINT\$/file-name', and terminated by an 'GBRKPT PRINT\$' statement. Archive To store data or a file in some safe, permanent manner, usually on tape. The data obtained from one respondent. Case Four records are used to hold the data for each case. Compiler A compiler is a program that prepares a machine language program (all ones and zeros) from a high level language program (such as FORTRAN, COBOL, PL/I). Disk A memory device consisting of swiftly spinning platter coated with an easily magnetized substance, which is read from or written to by a moving recording head. Also called 'mass-storage device' because

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A program used to create and modify program files and data files, at the direction of the user.

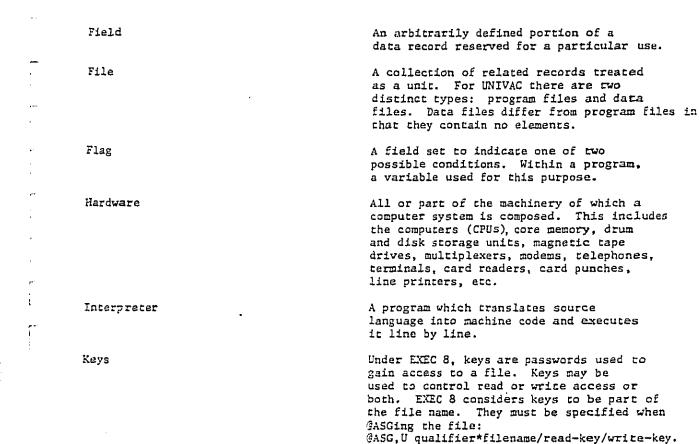
A program of measurements taken throughout

A UNIVAC term which indicates a named portion of a program file.

of its large capacity.

The brand name of the operating system used on the UNIVAC 1100 series computer. The NCC EXEC 8 version follows general UNIVAC philosophy, but should be considered unique to that site.

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Local Information System to Evaluate Noise. A data gathering and analysis system designed to determine the impact of noise on a community.

A collection of software that directs the action of the computer in much of the routine 'housekeeping' tasks. The typical operating system includes an executive, or supervisor routine, an input/output control routine, utility programs for file handling, an assembler, and one or more compilers.

An operating system assigned attribute of a run which determines when it will be processed. Priority depends on a number of factors including user-requested priority, resources necessary for the run (core, time, tape drives, etc.), and time of day.

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Operating Systems

Question In this manual, refers to a question asked by the attitudinal survey. Quiet Communities Program An EPA project intended to show communities how to apply the best available techniques to combat noise. Recode To change all occurences of a given value in a survey question to some other value. For example, question 1 of the attitudinal survey is recoded by substituting '0.5' for all occurences of '95'. A site, located outside of the computer Remote Site center, where batch jobs may be submitted and their output received. It consists of at least a card reader and line printer; often a card punch is added. Respondent A person who has answered a questionnaire. Run A sequence of Executive Control Language statements which is submitted to, and processed by, EXEC8. The first statement of a run is always the 'RUN' statement and the last statement is always the '@FIN' statement. Collectively, the group is often referred to as a 'runstream'. Runstream See RUN An additional 12 characters prefixed to a Qualifier file name to insure uniqueness. When omitted, the project id from the GRUN statement is used. The qualifier and file name are always separated with an asterisk '*'. Submit Entering a runstream into the system for processing by employing a card reader or cerminal. System Processor A utility program which operates on data. Systems Programmer A programmer whose specialty is computer operating systems. Utility Program Any useful program maintained and supplied by the computer center, for the benefit of the user.

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In this manual, data from the attitudinal survey that is used in the SPSS data analysis.

Simple variables are variables in which the data comes from only one survey question (e.g., the variable RTHQ9).

Compound variables are variables in which the data from a number of survey variables are combined (e.g., the variable PUBSERV).

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