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ANALYSIS OF COVARIANCE COMPUTER PROGRAM WITH MULTIPLE
COVARIATES AND FORECAST CAPABILITY

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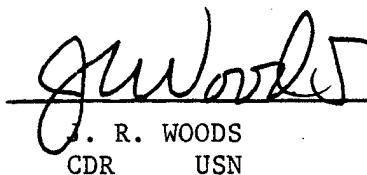
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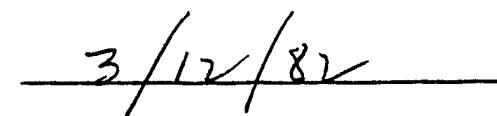
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SUMMARY

This report documents the modifications to a U.C.L.A. Biomedical Mathematics Department (BMD) Analysis-of-Covariance Statistical Computer Program. The computer code was revised by the NAVAIRDEVcen to increase the computational accuracy and formulate output solutions in a form more suitable to the solution of engineering type problems.

The Covariance Statistical Model was used to successfully formulate empirical correlation equations which relate vehicle aftend drag with the complicated external flow field, the propulsion system, and the aircraft design parameters.

The program and supporting subroutines are written in FORTRAN for use on a CDC 6600 Computer. The appendices of this report include a sample problem input/output listing, computer program listing, a program user's guide, and the Analysis-of-Covariance statistical model.

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TABLE OF CONTENTS

	<u>Page No.</u>
SUMMARY	1
INTRODUCTION	5
METHODOLOGY	6
DISCUSSION	7
PROGRAM DESCRIPTION	7
PROGRAM STRUCTURE	8
PROGRAM MODIFICATIONS	10
CONCLUSIONS	12
REFERENCES	13
APPENDIX A: SAMPLE INPUT/OUTPUT LISTING	A-1
APPENDIX B: COMPUTER PROGRAM LISTING	B-1
APPENDIX C: COMPUTER PROGRAM USER'S GUIDE	C-1
APPENDIX D: COMPUTATIONAL PROCEDURE	D-1

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INTRODUCTION

Modifications to a U.C.L.A. Biomedical Mathematics Department Analysis-of-Covariance (BMD04V) Statistical Computer Program (reference (a)) were developed by NAVAIRDEVCEN to successfully formulate empirical correlation equations which relate aircraft aftend drag with external flow field parameters and aircraft design parameters. The modifications to the computer code were developed during a NAVAIR sponsored Aft Fuselage Twin Nozzle Fighter-Type Aircraft Drag Project. The project involved the correlation of a large data base of aircraft fuselage drag measurements obtained from various wind tunnel fighter models which contained geometric and flight performance variations.

This report will describe the unique capabilities of the Covariance Analyses and the extensive improvements to the original computer code which make it a valuable tool for use in analyzing a variety of engineering problems.

METHODOLOGY

In general, the Analysis-of-Covariance statistical model can be applied to any engineering problem for which a data base of dependent and independent variables exists and for which a requirement exists to relate the variables through a set of empirical correlation equations. The Analysis-of-Covariance method is not a traditional multiple regression method although it can be degraded to provide all the output normally associated with a total regression. The Analysis-of-Covariance method permits the separation of covariate (independent variables) to allow correlation of the variate (dependent variable) with a single covariate. For example, the method can be used to independently synthesize the functional relationships between each and every independent variable and the related multidependent functional variable. A multiple regression method cannot filter out the multiple effects on a dependent variable which are contributed by several related independent variables. A multiple regression method can be used when only one independent variable exists or when the interdependence of the independent variables is known *a priori*.

A complete and detailed mathematical formulation of the Analysis-of-Covariance model can be found in any standard statistical text (i.e., references (b) and (c)). For the sake of completeness, a description of the computational procedure is provided in Appendix D.

DISCUSSIONPROGRAM DESCRIPTION

The computer program described in this report can be utilized to compute Analysis-of-Covariance information for one Analysis-of-Variance variable with multiple covariates and unequal treatment group sizes with forecast capability. The statistical method permits the user to designate treatment groups or subdivisions of case input data which demonstrate certain user defined levels consistent with the reduction of scatter of the variate or dependent variable. In addition, covariate parameters may be defined which are common to each treatment group and which reduce the scatter of the variate in each group. The proper covariate parameters for a given problem are those which filter out the common effects and increase the predominant dependence within the treatment groups. The provision for the subdivision of case data into treatment groups provides the Covariance Analysis with the unique capability to synthesize the functional relationship of each independent variable on the dependent variable. The program provides the capability of partitioning the case data into treatment groups through user defined boolean expressions, thus simplifying the subdivision of large input data problems.

The program also provides the capability of transformation of the covariate parameters into complex multivariable functions which may be instrumental in the reduction of the variance of the dependent variable. The term transgeneration is used to include transformations of input variables and creation of new variables prior to the computations performed by the program. By use of the transgeneration option, new variables may be created by performing algebraic, trigonometric, exponential, and logarithmic transformations on the original variables. These variables may either replace the old variables or they may be entirely new variables. For example, suppose that there are two original variables, variable 1 and variable 2. Then a third variable, variable 3, could be created by letting variable 3 be the square root of variable 2.

The program provides output of cross correlation matrices through which an indication can be formed of the independence of each of the covariate parameters. The capability of analyzing the cross correlation between covariate parameters permits the user to select covariates with the least interdependence and thus increase the accuracy of the statistical model. For example, if two covariates are highly correlated, the increased probability exists that either the covariates should be combined or one of the covariates should be removed from the analysis. The cross correlation matrices thus provide a means of filtering candidate covariates for inclusion in the Covariance Analysis.

The Analysis-of-Covariance program provides tables of covariance coefficients, standard errors, computed T-values, and confidence levels. A unique mathematical routine within the program structure calculates the confidence levels for each covariate based on the calculated T-values

and degrees of freedom. This eliminates the need for use of detailed statistical tables which is common for all other statistical methods. The confidence levels permit the user to evaluate the relative merit of each covariate parameter in reducing the total variation and thus assist in synthesizing the unique empirical correlation parameters.

Another unique feature provides output of tables of residual analysis which contain for each case: the variate, the estimated variate based on the covariate analysis, the residual and the percent variation in each treatment group. The residual tables are typically plotted, using any standard existing interactive computer technique, to obtain the scatter of data in each treatment group about the mean of the variates. The graphic residual variation provides a definitive representation of the precision attained in the selection of covariates and the trend of any errors in the analysis.

The program also provides the capability of introducing forecast data into the previously defined statistical model in order to test the precision accuracy. This procedure is highly desirable with any statistical analysis, for the introduction of data which is independent of the data utilized to develop the model equations will provide a definitive evaluation of the previous analysis.

A sample input data problem which demonstrates most of the computer program options is included in Appendix A together with the resultant output formulation. A complete listing of the main computer program and the associated subroutine subprograms is presented in Appendix B. A program user's guide (see Appendix C) provides a detailed description of the available program options and defines the sequence and function of each of the program control directives.

PROGRAM STRUCTURE

The Analysis-of-Covariance Computer Code consists of a main program and eight subroutines written in Fortran language and compatible with the NAVAIRDEVCEC CDC 6600 series computer systems. The computer code listing comprising the Covariance Analysis is included with this report in Appendix B.

Program BMD04V

The main program reads the program control cards, reads the input data cards, checks the problem limitations, calculates and prints some of the output values, and controls the calls to the subroutine subprograms.

Subroutine MINV

The subroutine MINV is utilized by the main program to invert the cross-product data matrices associated with the least-square solution of

the Total, Treatment, and Error formulations of the statistical models using the standard Gauss-Jordan method.

Subroutine GRPSEL

The subroutine GRPSEL assigns group designations to each input data case consistent with user defined boolean selection criteria. If the optional boolean selection feature is being used to place cases in their treatment groups, group definition cards are prepared as shown in the user's guide of Appendix C. A diagnostic message is printed for illegal user defined operations.

Subroutine PATTY2

Subroutine PATTY2 prints the data matrices associated with the correlations, cross-products, and inverse of the cross-products for the Total, Treatment, and Error analyses. The routine also prints a diagnostic message for singular inverse cross-product matrices.

Subroutine TG41

Subroutine TG41 performs the various user defined transgenerations of input data. By use of the Transgeneration Cards (see User's Guide, Appendix C), new variables may be created by performing algebraic, trigonometric, exponential, and logarithmic transformations on the original variables. The transgeneration codes permit the formulation of any user defined multiple-variable functional relationship. The routine also prints diagnostic messages for violations of transgeneration code restrictions.

Subroutine TPWD

This subroutine assigns user specified BCD tape number designations to the main program for exchange and storage of case input data. A diagnostic message is printed for illegal user tape number designations.

Subroutine WRT

The subroutine WRT prints most of the output tables and computational results developed by the main program and the other subroutines.

Subroutine CONF

The subroutine CONF computes the confidence level associated with each input T-value for the corresponding degrees-of-freedom. The routine eliminates the need for detailed statistical tables by providing a rapid calculation of the Student's T-value at the appropriate confidence level for each covariate parameter.

Subroutine LDAY

The subroutine LDAY calculates and prints the current run-time day, month, and year at the top of each page of output.

PROGRAM MODIFICATIONS

A standard Analysis-of-Covariance computer program with multiple covariates has been modified to include data forecast capability, covariate correlation and residual analyses for Total, Treatment, and Error groups. The resulting statistical method represents a more sophisticated analytical tool with increased computational accuracy.

Major modifications to the original computer program were effected in the following categories:

Input/Output Enhancements

1. Input control cards printed in output.
2. Input Data cards printed in output with case and group numbers.
3. Output values printed in scientific notation.
4. Added assigned group number table for null contingency.
5. Added output paging to report style.
6. Added transgenerated data output.

Computational Enhancements

1. Added more efficient matrix inversion method.
2. Added singular matrix definition and diagnostic message.
3. Added covariate correlation matrices.
4. Added forecast data capability.
5. Added estimates of standard deviation.
6. Added confidence levels for computed T-values.
7. Added residual analyses.

8. Added maximum residual analyses.
9. Added table of intercepts.
10. Added table of overall covariate means.
11. Added table of sum-squares within.
12. Removed restrictions on covariate storage.

CONCLUSIONS

The Analysis-of-Covariance statistical method can be applied to any engineering problem for which a data base of dependent and independent variables exists and for which a requirement exists to relate the variables through a set of empirical correlation equations.

The Covariance statistical method has been used with success, for the past 7 years, at the NAVAIRDEV CEN to formulate empirical correlation equations for a wide variety of engineering problems. The statistical method has more capability than the traditional multiple regression procedure and is recommended whenever a correlation is required of qualitative and quantitative parameters.

R E F E R E N C E S

- (a) Dixon, W. J., "(BMD) Biomedical Computer Programs," University of California Press, Los Angeles, 1973.
- (b) Bennett, Carl A., and Franklin, Norman L., "Statistical Analysis In Chemistry and the Chemical Industry," Wiley, 1954.
- (c) Scheffe', Henry, "The Analysis of Variance," Wiley, 1959.

A P P E N D I X A

ANALYSIS OF COVARIANCE COMPUTER PROGRAM
SAMPLE INPUT/OUTPUT LISTING

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TABLE OF CONTENTS

	<u>Page No.</u>
DESCRIPTION	A-4
SAMPLE INPUT CASE	A-6
SAMPLE OUTPUT CASE	A-14

DESCRIPTION

The sample case presented in this section is representative of the engineering problems that can be analyzed using the Analysis-of-Covariance statistical method. The example represents a typical aircraft optimum Mach number climb characteristic (dependent variate parameter) in terms of altitude, weight, drag, and ambient temperature (independent covariate parameters). The covariate parameters are related to the variate through partitioning using the treatment groups designators and transgenerated in terms of the multifunctional covariates. This example illustrates the utility of the Covariance Analysis to detect and synthesize the functional relationships between independent and dependent variables.

The input cards for the sample case are presented on pages A-6 through A-13. The first page shows the sample Problem card, the Trans-generation cards, the Group Definition cards, the Label card, the Format card, and the beginning of the variate and covariate parameters. The full list of input variables is continued through page A-13 where the input is terminated with the Covariate Selection card and the finish card.

The output solution for the sample case is presented on pages A-14 through A-128. The output includes the following information: the group means, the correlation matrices, the error analyses, the covariate coefficients, the residual analyses, and the standard deviations. The Analysis-of-Covariance table (page A-59) presents the overall accuracy of the correlations for both the Total and Within analyses. The square root of the mean-square values, which are presented in the table, provides the standard error of the statistical models.

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NADC-77036-30

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.4138	30000.000	90000.000	100.000	0.000
.4205	31000.000	90000.000	100.000	0.000
.4271	32000.000	90000.000	100.000	0.000
.4338	33000.000	90000.000	100.000	0.000
.4410	34000.000	90000.000	100.000	0.000
.4488	35000.000	90000.000	100.000	0.000
.2847	190.476	100000.000	100.000	0.000
.3052	5000.000	100000.000	100.000	0.000
.3229	10000.000	100000.000	100.000	0.000
.3432	15000.000	100000.000	100.000	0.000
.3570	20000.000	100000.000	100.000	0.000
.3943	25000.000	100000.000	100.000	0.000
.4259	30000.000	100000.000	100.000	0.000
.4327	31000.000	100000.000	100.000	0.000
.4396	32000.000	100000.000	100.000	0.000
.2903	0.000	120000.000	100.000	0.000
.3126	5000.000	120000.000	100.000	0.000
.3345	10000.000	120000.000	100.000	0.000
.3575	15000.000	120000.000	100.000	0.000
.3845	20000.000	120000.000	100.000	0.000
.4153	25000.000	120000.000	100.000	0.000
.4216	26000.000	120000.000	100.000	0.000
.4283	27000.000	120000.000	100.000	0.000
.3020	0.000	145000.000	100.000	0.000
.3250	5000.000	145000.000	100.000	0.000
.3496	10000.000	145000.000	100.000	0.000
.3760	15000.000	145000.000	100.000	0.000
.4065	20000.000	145000.000	100.000	0.000
.4126	21000.000	145000.000	100.000	0.000
.2520	0.000	70000.000	200.000	0.000
.2647	5000.000	70000.000	200.000	0.000
.2782	10000.000	70000.000	200.000	0.000
.2939	15000.000	70000.000	200.000	0.000
.3116	20000.000	70000.000	200.000	0.000
.3340	25000.000	70000.000	200.000	0.000
.3577	30000.000	70000.000	200.000	0.000
.3858	35000.000	70000.000	200.000	0.000

NADC-77036-30

.3908	36000.000	70000.000	200.000	0.000
.3962	37000.000	70000.000	200.000	0.000
.4019	38000.000	70000.000	200.000	0.000
.2585	0.000	90000.000	200.000	0.000
.2734	5000.000	90000.000	200.000	0.000
.2897	10000.000	90000.000	200.000	0.000
.3083	15000.000	90000.000	200.000	0.000
.3298	20000.000	90000.000	200.000	0.000
.3539	25000.000	90000.000	200.000	0.000
.3822	30000.000	90000.000	200.000	0.000
.3884	31000.000	90000.000	200.000	0.000
.3548	32000.000	90000.000	200.000	0.000
.2619	0.000	100000.000	200.000	0.000
.2783	5000.000	100000.000	200.000	0.000
.2956	10000.000	100000.000	200.000	0.000
.3160	15000.000	100000.000	200.000	0.000
.3382	20000.000	100000.000	200.000	0.000
.3639	25000.000	100000.000	200.000	0.000
.3596	26000.000	100000.000	200.000	0.000
.3754	27000.000	100000.000	200.000	0.000
.3815	28000.000	100000.000	200.000	0.000
.3878	29000.000	100000.000	200.000	0.000
.2691	0.000	120000.000	200.000	0.000
.2887	5000.000	120000.000	200.000	0.000
.3083	10000.000	120000.000	200.000	0.000
.3304	15000.000	120000.000	200.000	0.000
.3550	20000.000	120000.000	200.000	0.000
.3605	21000.000	120000.000	200.000	0.000
.3661	22000.000	120000.000	200.000	0.000
.3719	23000.000	120000.000	200.000	0.000
.3779	24000.000	120000.000	200.000	0.000
.2821	142.857145000	0.000	200.000	0.000
.3033	5000.000	145000.000	200.000	0.000
.3236	10000.000	145000.000	200.000	0.000
.3477	15000.000	145000.000	200.000	0.000
.3529	16000.000	145000.000	200.000	0.000
.3584	17000.000	145000.000	200.000	0.000
.3641	18000.000	145000.000	200.000	0.000
.3057	0.000	70000.000	-50.000	18.000
.3284	5000.000	70000.000	-50.000	18.000
.3476	10000.000	70000.000	-50.000	18.000
.3715	15535.714	70000.000	-50.000	18.000
.3930	20000.000	70000.000	-50.000	18.000
.4240	25119.048	70000.000	-50.000	18.000
.4592	30000.000	70000.000	-50.000	18.000
.4919	35000.000	70000.000	-50.000	18.000
.5292	40000.000	70000.000	-50.000	18.000
.5419	41000.000	70000.000	-50.000	18.000
.5488	42000.000	70000.000	-50.000	18.000
.5498	43000.000	70000.000	-50.000	18.000
.3094	0.000	90000.000	-50.000	18.000
.3344	5000.000	90000.000	-50.000	18.000
.3620	10000.000	90000.000	-50.000	18.000
.3920	15000.000	90000.000	-50.000	18.000
.4220	20000.000	90000.000	-50.000	18.000
.4503	25000.000	90000.000	-50.000	18.000
.4854	30000.000	90000.000	-50.000	18.000
.5325	35000.000	90000.000	-50.000	18.000
.5439	36000.000	90000.000	-50.000	18.000
.5494	37000.000	90000.000	-50.000	18.000
.5502	38000.000	90000.000	-50.000	18.000
.3174	0.000	100000.000	-50.000	18.000
.3455	5000.000	100000.000	-50.000	18.000
.3743	10000.000	100000.000	-50.000	18.000
.4040	15000.000	100000.000	-50.000	18.000
.4350	20476.190	100000.000	-50.000	18.000
.4650	25476.190	100000.000	-50.000	18.000
.5026	30000.000	100000.000	-50.000	18.000
.5493	35000.000	100000.000	-50.000	18.000
.5498	36000.000	100000.000	-50.000	18.000
.3364	0.000	120000.000	-50.000	18.000
.3647	5000.000	120000.000	-50.000	18.000
.3935	10000.000	120000.000	-50.000	18.000
.4180	14583.333	120000.000	-50.000	18.000
.4480	19464.286	120000.000	-50.000	18.000
.4892	25000.000	120000.000	-50.000	18.000
.4987	26000.000	120000.000	-50.000	18.000
.5068	27000.000	120000.000	-50.000	18.000
.5156	28000.000	120000.000	-50.000	18.000
.5257	29000.000	120000.000	-50.000	18.000
.5361	30000.000	120000.000	-50.000	18.000
.3532	0.000	145000.000	-50.000	18.000
.3807	5000.000	145000.000	-50.000	18.000
.4070	10000.000	145000.000	-50.000	18.000
.4382	15000.000	145000.000	-50.000	18.000
.4759	20000.000	145000.000	-50.000	18.000
.4854	21000.000	145000.000	-50.000	18.000
.4939	22000.000	145000.000	-50.000	18.000
.5022	23000.000	145000.000	-50.000	18.000
.5103	24000.000	145000.000	-50.000	18.000
.5189	25000.000	145000.000	-50.000	18.000
.2848	0.000	70000.000	0.000	18.000
.3048	5000.000	70000.000	0.000	18.000
.3275	10178.571	70000.000	0.000	18.000
.3474	15000.000	70000.000	0.000	18.000
.3734	20000.000	70000.000	0.000	18.000
.3985	25000.000	70000.000	0.000	18.000
.4261	30000.000	70000.000	0.000	18.000
.4579	35238.095	70000.000	0.000	18.000
.4896	40000.000	70000.000	0.000	18.000
.4965	41000.000	70000.000	0.000	18.000
.2948	0.000	90000.000	0.000	18.000
.3197	5000.000	90000.000	0.000	18.000
.3445	10000.000	90000.000	0.000	18.000
.3664	15000.000	90000.000	0.000	18.000
.3913	20000.000	90000.000	0.000	18.000
.4213	25000.000	90000.000	0.000	18.000
.4521	30000.000	90000.000	0.000	18.000
.4912	35000.000	90000.000	0.000	18.000
.4981	36000.000	90000.000	0.000	18.000
.3015	0.000	100000.000	0.000	18.000
.3269	5000.000	100000.000	0.000	18.000
.3505	10000.000	100000.000	0.000	18.000
.3736	15000.000	100000.000	0.000	18.000
.4019	20000.000	100000.000	0.000	18.000
.4310	25000.000	100000.000	0.000	18.000
.4652	30000.000	100000.000	0.000	18.000
.4732	31000.000	100000.000	0.000	18.000
.4816	32000.000	100000.000	0.000	18.000
.4901	33000.000	100000.000	0.000	18.000

NADC-77036-30

.3116	0.000120000.000	0.000	18.000
.3365	5000.000120000.000	0.000	18.000
.3633	10000.000120000.000	0.000	18.000
.3809	15000.000120000.000	0.000	18.000
.4195	20000.000120000.000	0.000	18.000
.4522	25000.000120000.000	0.000	18.000
.4597	26000.000120000.000	0.000	18.000
.4676	27000.000120000.000	0.000	18.000
.4760	28000.000120000.000	0.000	18.000
.3263	0.000145000.000	0.000	18.000
.3533	5000.000145000.000	0.000	18.000
.3810	10000.000145000.000	0.000	18.000
.4100	15000.000145000.000	0.000	18.000
.4418	20000.000145000.000	0.000	18.000
.4490	21000.000145000.000	0.000	18.000
.4565	22000.000145000.000	0.000	18.000
.2613	0.00070000.000	100.000	18.000
.2780	5000.00070000.000	100.000	18.000
.2955	10000.00070000.000	100.000	18.000
.3128	15000.00070000.000	100.000	18.000
.3331	20000.00070000.000	100.000	18.000
.3547	25000.00070000.000	100.000	18.000
.3806	30000.00070000.000	100.000	18.000
.4117	35000.00070000.000	100.000	18.000
.4171	36000.00070000.000	100.000	18.000
.4230	37000.00070000.000	100.000	18.000
.4292	38000.00070000.000	100.000	18.000
.4356	39000.00070000.000	100.000	18.000
.2711	0.00090000.000	100.000	18.000
.2892	5000.00090000.000	100.000	18.000
.3076	10000.00090000.000	100.000	18.000
.3278	15000.00090000.000	100.000	18.000
.3501	20000.00090000.000	100.000	18.000
.3763	25000.00090000.000	100.000	18.000
.4072	30000.00090000.000	100.000	18.000
.4139	31000.00090000.000	100.000	18.000
.4212	32000.00090000.000	100.000	18.000
.4284	33000.00090000.000	100.000	18.000
.2745	0.000100000.000	100.000	18.000
.2956	5000.000100000.000	100.000	18.000
.3141	10000.000100000.000	100.000	18.000
.3351	15000.000100000.000	100.000	18.000
.3590	20000.000100000.000	100.000	18.000
.3874	25000.000100000.000	100.000	18.000
.3936	26000.000100000.000	100.000	18.000
.4000	27000.000100000.000	100.000	18.000
.4066	28000.000100000.000	100.000	18.000
.4135	29000.000100000.000	100.000	18.000
.4205	30000.000100000.000	100.000	18.000
.2825	0.000120000.000	100.000	18.000
.3044	5000.000120000.000	100.000	18.000
.3265	10000.000120000.000	100.000	18.000
.3499	15000.000120000.000	100.000	18.000
.3773	20000.000120000.000	100.000	18.000
.3833	21000.000120000.000	100.000	18.000
.3895	22000.000120000.000	100.000	18.000
.3959	23000.000120000.000	100.000	18.000
.4026	24000.000120000.000	100.000	18.000
.4095	25000.000120000.000	100.000	18.000
.2929	0.000145000.000	100.000	18.000
.3172	5000.000145000.000	100.000	18.000
.3424	10000.000145000.000	100.000	18.000
.3691	15000.000145000.000	100.000	18.000
.3750	16000.000145000.000	100.000	18.000
.3811	17000.000145000.000	100.000	18.000
.3873	18000.000145000.000	100.000	18.000
.3937	19000.000145000.000	100.000	18.000
.2456	0.00070000.000	200.000	18.000
.2555	5000.00070000.000	200.000	18.000
.2705	10000.00070000.000	200.000	18.000
.2863	15000.00070000.000	200.000	18.000
.3042	20000.00070000.000	200.000	18.000
.3253	25000.00070000.000	200.000	18.000
.3506	30000.00070000.000	200.000	18.000
.3797	35000.00070000.000	200.000	18.000
.3849	36000.00070000.000	200.000	18.000
.3905	37000.00070000.000	200.000	18.000
.2521	0.00090000.000	200.000	18.000
.2651	5000.00090000.000	200.000	18.000
.2819	10000.00090000.000	200.000	18.000
.3009	15000.00090000.000	200.000	18.000
.3228	20000.00090000.000	200.000	18.000
.3472	25000.00090000.000	200.000	18.000
.3761	30000.00090000.000	200.000	18.000
.3824	31000.00090000.000	200.000	18.000
.2557	0.000100000.000	200.000	18.000
.2701	5000.000100000.000	200.000	18.000
.2881	10000.000100000.000	200.000	18.000
.3087	15000.000100000.000	200.000	18.000
.3323	20000.000100000.000	200.000	18.000
.3576	25000.000100000.000	200.000	18.000
.3634	26000.000100000.000	200.000	18.000
.3694	27000.000100000.000	200.000	18.000
.3756	28000.000100000.000	200.000	18.000
.2634	0.000120000.000	200.000	18.000
.2807	5000.000120000.000	200.000	18.000
.3012	10000.000120000.000	200.000	18.000
.3238	15000.000120000.000	200.000	18.000
.3490	20000.000120000.000	200.000	18.000
.3545	21000.000120000.000	200.000	18.000
.3602	22000.000120000.000	200.000	18.000
.2737	0.000145000.000	200.000	18.000
.2967	5000.000145000.000	200.000	18.000
.3173	10000.000145000.000	200.000	18.000
.3419	15000.000145000.000	200.000	18.000
.3475	16000.000145000.000	200.000	18.000
.2936	0.00070000.000	-50.000	36.000
.3129	5000.00070000.000	-50.000	36.000
.3347	10000.00070000.000	-50.000	36.000
.3605	15476.19070000.000	-50.000	36.000
.3864	20000.00070000.000	-50.000	36.000
.4193	25000.00070000.000	-50.000	36.000
.4488	30000.00070000.000	-50.000	36.000
.4844	35000.00070000.000	-50.000	36.000
.5174	40000.00070000.000	-50.000	36.000
.5285	41000.00070000.000	-50.000	36.000
.5401	42000.00070000.000	-50.000	36.000
.3018	0.00090000.000	-50.000	36.000
.3281	5000.00090000.000	-50.000	36.000
.3556	10000.00090000.000	-50.000	36.000

NADC-77036-30

.3846	15000.000	90000.000	-50.000	36.000
.4131	20000.000	90000.000	-50.000	36.000
.4395	25000.000	90000.000	-50.000	36.000
.4778	30000.000	90000.000	-50.000	36.000
.5189	35000.000	90000.000	-50.000	36.000
.5315	36000.000	90000.000	-50.000	36.000
.3108	0.000	100000.000	-50.000	36.000
.3382	5000.000	100000.000	-50.000	36.000
.3666	10000.000	100000.000	-50.000	36.000
.3954	15000.000	100000.000	-50.000	36.000
.4210	19761.905	100000.000	-50.000	36.000
.4528	25000.000	100000.000	-50.000	36.000
.4953	30000.000	100000.000	-50.000	36.000
.5054	31000.000	100000.000	-50.000	36.000
.5147	32000.000	100000.000	-50.000	36.000
.5232	33000.000	100000.000	-50.000	36.000
.5332	34000.000	100000.000	-50.000	36.000
.3263	0.000	120000.000	-50.000	36.000
.3538	5000.000	120000.000	-50.000	36.000
.3820	10000.000	120000.000	-50.000	36.000
.4092	15000.000	120000.000	-50.000	36.000
.4405	20000.000	120000.000	-50.000	36.000
.4796	25000.000	120000.000	-50.000	36.000
.4892	26000.000	120000.000	-50.000	36.000
.4992	27000.000	120000.000	-50.000	36.000
.5081	28000.000	120000.000	-50.000	36.000
.5176	29000.000	120000.000	-50.000	36.000
.3393	0.000	145000.000	-50.000	36.000
.3683	5000.000	145000.000	-50.000	36.000
.3957	10000.000	145000.000	-50.000	36.000
.4302	15000.000	145000.000	-50.000	36.000
.4671	20000.000	145000.000	-50.000	36.000
.4761	21000.000	145000.000	-50.000	36.000
.4856	22000.000	145000.000	-50.000	36.000
.2747	0.000	70000.000	0.000	36.000
.2919	5000.000	70000.000	0.000	36.000
.3168	10000.000	70000.000	0.000	36.000
.3400	15000.000	70000.000	0.000	36.000
.3632	20000.000	70000.000	0.000	36.000
.3879	24857.143	70000.000	0.000	36.000
.4187	30000.000	70000.000	0.000	36.000
.4523	35000.000	70000.000	0.000	36.000
.4580	36000.000	70000.000	0.000	36.000
.4641	37000.000	70000.000	0.000	36.000
.4704	38000.000	70000.000	0.000	36.000
.4770	39000.000	70000.000	0.000	36.000
.4838	40000.000	70000.000	0.000	36.000
.2884	0.000	90000.000	0.000	36.000
.3109	5000.000	90000.000	0.000	36.000
.3341	10000.000	90000.000	0.000	36.000
.3559	15000.000	90000.000	0.000	36.000
.3820	20000.000	90000.000	0.000	36.000
.4123	25000.000	90000.000	0.000	36.000
.4452	30000.000	90000.000	0.000	36.000
.4526	31000.000	90000.000	0.000	36.000
.4601	32000.000	90000.000	0.000	36.000
.4685	33000.000	90000.000	0.000	36.000
.4770	34000.000	90000.000	0.000	36.000
.4855	35000.000	90000.000	0.000	36.000
.2942	0.000	100000.000	0.000	36.000
.1178	5000.000	100000.000	0.000	36.000
.3399	10000.000	100000.000	0.000	36.000
.3645	15000.000	100000.000	0.000	36.000
.3923	20000.000	100000.000	0.000	36.000
.4233	25000.000	100000.000	0.000	36.000
.4587	30000.000	100000.000	0.000	36.000
.4668	31000.000	100000.000	0.000	36.000
.4754	32000.000	100000.000	0.000	36.000
.3026	0.000	120000.000	0.000	36.000
.3287	5000.000	120000.000	0.000	36.000
.3546	10000.000	120000.000	0.000	36.000
.3817	15000.000	120000.000	0.000	36.000
.4125	20000.000	120000.000	0.000	36.000
.4456	25000.000	120000.000	0.000	36.000
.4532	26000.000	120000.000	0.000	36.000
.3163	0.000	145000.000	0.000	36.000
.3437	5000.000	145000.000	0.000	36.000
.3730	10000.000	145000.000	0.000	36.000
.4032	15000.000	145000.000	0.000	36.000
.4091	16000.000	145000.000	0.000	36.000
.4152	17000.000	145000.000	0.000	36.000
.4216	18000.000	145000.000	0.000	36.000
.4281	19000.000	145000.000	0.000	36.000
.4351	20000.000	145000.000	0.000	36.000
.2542	0.000	70000.000	100.000	36.000
.2690	5000.000	70000.000	100.000	36.000
.2841	10000.000	70000.000	100.000	36.000
.3033	15000.000	70000.000	100.000	36.000
.3241	20000.000	70000.000	100.000	36.000
.3464	25000.000	70000.000	100.000	36.000
.3727	30000.000	70000.000	100.000	36.000
.4046	35000.000	70000.000	100.000	36.000
.4104	36000.000	70000.000	100.000	36.000
.4166	37000.000	70000.000	100.000	36.000
.4232	38000.000	70000.000	100.000	36.000
.2623	0.000	90000.000	100.000	36.000
.2795	5000.000	90000.000	100.000	36.000
.2981	10000.000	90000.000	100.000	36.000
.3197	15000.000	90000.000	100.000	36.000
.3423	20000.000	90000.000	100.000	36.000
.3687	25000.000	90000.000	100.000	36.000
.4006	30000.000	90000.000	100.000	36.000
.4078	31000.000	90000.000	100.000	36.000
.4152	32000.000	90000.000	100.000	36.000
.2667	0.000	100000.000	100.000	36.000
.2846	5000.000	100000.000	100.000	36.000
.3053	10000.000	100000.000	100.000	36.000
.3274	15000.000	100000.000	100.000	36.000
.3515	20000.000	100000.000	100.000	36.000
.3802	25000.000	100000.000	100.000	36.000
.3865	26000.000	100000.000	100.000	36.000
.3931	27000.000	100000.000	100.000	36.000
.4000	28000.000	100000.000	100.000	36.000
.2754	0.000	120000.000	100.000	36.000
.2953	5000.000	120000.000	100.000	36.000
.3191	10000.000	120000.000	100.000	36.000
.3429	15000.000	120000.000	100.000	36.000
.3704	20000.000	120000.000	100.000	36.000
.3764	21000.000	120000.000	100.000	36.000
.3826	22000.000	120000.000	100.000	36.000

NADC-77036-30

.1891	23000.000	120000.000	100.000	36.000
.2868	0.000	145000.000	100.000	36.000
.3096	5000.000	145000.000	100.000	36.000
.3256	10000.000	145000.000	100.000	36.000
.3629	15000.000	145000.000	100.000	36.000
.3688	16000.000	145000.000	100.000	36.000
.2363	0.000	70000.000	200.000	36.000
.2471	5000.000	70000.000	200.000	36.000
.2622	10000.000	70000.000	200.000	36.000
.2788	15000.000	70000.000	200.000	36.000
.2973	20000.000	70000.000	200.000	36.000
.3187	25000.000	70000.000	200.000	36.000
.3438	30000.000	70000.000	200.000	36.000
.3733	35000.000	70000.000	200.000	36.000
.3787	36000.000	70000.000	200.000	36.000
.2439	0.000	90000.000	200.000	36.000
.2572	5000.000	90000.000	200.000	36.000
.2743	10000.000	90000.000	200.000	36.000
.2939	15000.000	90000.000	200.000	36.000
.3165	20000.000	90000.000	200.000	36.000
.3410	25000.000	90000.000	200.000	36.000
.3464	26000.000	90000.000	200.000	36.000
.3519	27000.000	90000.000	200.000	36.000
.3577	28000.000	90000.000	200.000	36.000
.3633	29000.000	90000.000	200.000	36.000
.2479	0.000	100000.000	200.000	36.000
.2625	5000.000	100000.000	200.000	36.000
.2809	10000.000	100000.000	200.000	36.000
.3018	15000.000	100000.000	200.000	36.000
.3254	20000.000	100000.000	200.000	36.000
.3517	25000.000	100000.000	200.000	36.000
.3575	26000.000	100000.000	200.000	36.000
.2564	0.000	120000.000	200.000	36.000
.2736	5000.000	120000.000	200.000	36.000
.2943	10000.000	120000.000	200.000	36.000
.3178	15000.000	120000.000	200.000	36.000
.3227	16000.000	120000.000	200.000	36.000
.3278	17000.000	120000.000	200.000	36.000
.3328	18000.000	120000.000	200.000	36.000
.3379	19000.000	120000.000	200.000	36.000
.3432	20000.000	120000.000	200.000	36.000
.2675	0.000	145000.000	200.000	36.000
.2875	5000.000	145000.000	200.000	36.000
.3115	10000.000	145000.000	200.000	36.000
.3162	11000.000	145000.000	200.000	36.000
.3211	12000.000	145000.000	200.000	36.000
.3260	13000.000	145000.000	200.000	36.000
.3156	0.000	70000.000	-50.000	-18.000
.3465	5416.667	70000.000	-50.000	-18.000
.3750	10357.143	70000.000	-50.000	-18.000
.3965	15000.000	70000.000	-50.000	-18.000
.4116	20000.000	70000.000	-50.000	-18.000
.4374	25000.000	70000.000	-50.000	-18.000
.4734	30000.000	70000.000	-50.000	-18.000
.5211	35000.000	70000.000	-50.000	-18.000
.5474	40000.000	70000.000	-50.000	-18.000
.5496	41000.000	70000.000	-50.000	-18.000
.5502	42000.000	70000.000	-50.000	-18.000
.5505	43000.000	70000.000	-50.000	-18.000
.5543	44000.000	70000.000	-50.000	-18.000
.5598	45000.000	70000.000	-50.000	-18.000
.3165	0.000	90000.000	-50.000	-18.000
.3504	5000.000	90000.000	-50.000	-18.000
.3818	10000.000	90000.000	-50.000	-18.000
.4050	15000.000	90000.000	-50.000	-18.000
.4356	20000.000	90000.000	-50.000	-18.000
.4701	25000.000	90000.000	-50.000	-18.000
.5100	30000.000	90000.000	-50.000	-18.000
.5482	35000.000	90000.000	-50.000	-18.000
.5495	36000.000	90000.000	-50.000	-18.000
.5500	37000.000	90000.000	-50.000	-18.000
.5507	38000.000	90000.000	-50.000	-18.000
.5555	39000.000	90000.000	-50.000	-18.000
.5611	40000.000	90000.000	-50.000	-18.000
.3200	0.000	100000.000	-50.000	-18.000
.3545	5000.000	100000.000	-50.000	-18.000
.3882	10000.000	100000.000	-50.000	-18.000
.4170	15000.000	100000.000	-50.000	-18.000
.4487	20000.000	100000.000	-50.000	-18.000
.4808	25000.000	100000.000	-50.000	-18.000
.5217	30000.000	100000.000	-50.000	-18.000
.5500	35000.000	100000.000	-50.000	-18.000
.5509	36000.000	100000.000	-50.000	-18.000
.5566	37000.000	100000.000	-50.000	-18.000
.5629	38000.000	100000.000	-50.000	-18.000
.3346	0.000	120000.000	-50.000	-18.000
.3707	5000.000	120000.000	-50.000	-18.000
.4078	10000.000	120000.000	-50.000	-18.000
.4378	15000.000	120000.000	-50.000	-18.000
.4672	20000.000	120000.000	-50.000	-18.000
.5026	25000.000	120000.000	-50.000	-18.000
.5488	30000.000	120000.000	-50.000	-18.000
.5489	31000.000	120000.000	-50.000	-18.000
.5507	32000.000	120000.000	-50.000	-18.000
.5547	33000.000	120000.000	-50.000	-18.000
.5608	34000.000	120000.000	-50.000	-18.000
.3455	0.000	145000.000	-50.000	-18.000
.3857	5000.000	145000.000	-50.000	-18.000
.4254	10000.000	145000.000	-50.000	-18.000
.4555	14523.810	145000.000	-50.000	-18.000
.4925	20000.000	145000.000	-50.000	-18.000
.5342	25000.000	145000.000	-50.000	-18.000
.5438	26000.000	145000.000	-50.000	-18.000
.5494	27000.000	145000.000	-50.000	-18.000
.5501	28000.000	145000.000	-50.000	-18.000
.2925	0.000	70000.000	0.000	-18.000
.3190	5000.000	70000.000	0.000	-18.000
.3473	10000.000	70000.000	0.000	-18.000
.3665	14464.285	70000.000	0.000	-18.000
.3885	20000.000	70000.000	0.000	-18.000
.4140	25238.095	70000.000	0.000	-18.000
.4415	30000.000	70000.000	0.000	-18.000
.4721	35000.000	70000.000	0.000	-18.000
.5066	40000.000	70000.000	0.000	-18.000
.5159	41000.000	70000.000	0.000	-18.000
.5240	42000.000	70000.000	0.000	-18.000
.5315	43000.000	70000.000	0.000	-18.000
.5385	44000.000	70000.000	0.000	-18.000
.3005	0.000	90000.000	0.000	-18.000
.3310	5000.000	90000.000	0.000	-18.000

NADC-77036-30

.3601	10000.000	90000.000	0.000	-18.000
.3867	15000.000	90000.000	0.000	-18.000
.4112	20000.000	90000.000	0.000	-18.000
.4354	25000.000	90000.000	0.000	-18.000
.4665	30000.000	90000.000	0.000	-18.000
.5084	35000.000	90000.000	0.000	-18.000
.5182	36000.000	90000.000	0.000	-18.000
.5259	37000.000	90000.000	0.000	-18.000
.5328	38000.000	90000.000	0.000	-18.000
.5402	39000.000	90000.000	0.000	-18.000
.3082	0.000100000.000	0.000	-18.000	
.3393	5000.000100000.000	0.000	-18.000	
.3693	10000.000100000.000	0.000	-18.000	
.3958	15000.000100000.000	0.000	-18.000	
.4175	20000.000100000.000	0.000	-18.000	
.4460	25000.000100000.000	0.000	-18.000	
.4797	30000.000100000.000	0.000	-18.000	
.5273	35000.000100000.000	0.000	-18.000	
.5343	36000.000100000.000	0.000	-18.000	
.3172	0.000120000.000	0.000	-18.000	
.3511	5000.000120000.000	0.000	-18.000	
.3832	10000.000120000.000	0.000	-18.000	
.4074	15000.000120000.000	0.000	-18.000	
.4343	20000.000120000.000	0.000	-18.000	
.4667	25000.000120000.000	0.000	-18.000	
.5107	30000.000120000.000	0.000	-18.000	
.5196	31000.000120000.000	0.000	-18.000	
.5286	32000.000120000.000	0.000	-18.000	
.3270	0.000145000.000	0.000	-18.000	
.3821	5000.000145000.000	0.000	-18.000	
.3975	10000.000145000.000	0.000	-18.000	
.4247	15000.000145000.000	0.000	-18.000	
.4562	20000.000145000.000	0.000	-18.000	
.4940	25000.000145000.000	0.000	-18.000	
.5029	26000.000145000.000	0.000	-18.000	
.2648	0.00070000.000	100.000	-18.000	
.2898	5000.00070000.000	100.000	-18.000	
.3133	10000.00070000.000	100.000	-18.000	
.3333	15000.00070000.000	100.000	-18.000	
.3508	20000.00070000.000	100.000	-18.000	
.3722	25000.00070000.000	100.000	-18.000	
.3964	30000.00070000.000	100.000	-18.000	
.4242	35000.00070000.000	100.000	-18.000	
.4510	40000.00070000.000	100.000	-18.000	
.4574	41000.00070000.000	100.000	-18.000	
.2750	0.00090000.000	100.000	-18.000	
.3019	5000.00090000.000	100.000	-18.000	
.3259	10000.00090000.000	100.000	-18.000	
.3449	15000.00090000.000	100.000	-18.000	
.3667	20000.00090000.000	100.000	-18.000	
.3915	25000.00090000.000	100.000	-18.000	
.4201	30000.00090000.000	100.000	-18.000	
.4525	35000.00090000.000	100.000	-18.000	
.4589	36000.00090000.000	100.000	-18.000	
.2783	0.000145000.000	100.000	-18.000	
.3054	5000.000145000.000	100.000	-18.000	
.3312	10000.000145000.000	100.000	-18.000	
.3517	15000.000145000.000	100.000	-18.000	
.3749	20000.000145000.000	100.000	-18.000	
.4014	25000.000145000.000	100.000	-18.000	
.4317	30000.000100000.000	100.000	-18.000	
.4380	31000.000100000.000	100.000	-18.000	
.4446	32000.000100000.000	100.000	-18.000	
.4517	33000.000100000.000	100.000	-18.000	
.2865	0.000120000.000	100.000	-18.000	
.3150	5000.000120000.000	100.000	-18.000	
.3425	10000.000120000.000	100.000	-18.000	
.3654	15000.000120000.000	100.000	-18.000	
.3914	20000.000120000.000	100.000	-18.000	
.4209	25000.000120000.000	100.000	-18.000	
.4274	26000.000120000.000	100.000	-18.000	
.4339	27000.000120000.000	100.000	-18.000	
.4405	28000.000120000.000	100.000	-18.000	
.2937	0.000145000.000	100.000	-18.000	
.3299	5000.000145000.000	100.000	-18.000	
.3571	10000.000145000.000	100.000	-18.000	
.3831	15000.000145000.000	100.000	-18.000	
.4118	20000.000145000.000	100.000	-18.000	
.4178	21000.000145000.000	100.000	-18.000	
.4240	22000.000145000.000	100.000	-18.000	
.4307	23000.000145000.000	100.000	-18.000	
.2515	0.00070000.000	200.000	-18.000	
.2724	5000.00070000.000	200.000	-18.000	
.2857	10000.00070000.000	200.000	-18.000	
.3021	15000.00070000.000	200.000	-18.000	
.3212	20000.00070000.000	200.000	-18.000	
.3417	25000.00070000.000	200.000	-18.000	
.3645	30000.00070000.000	200.000	-18.000	
.3915	35000.00070000.000	200.000	-18.000	
.3965	36000.00070000.000	200.000	-18.000	
.4015	37000.00070000.000	200.000	-18.000	
.4069	38000.00070000.000	200.000	-18.000	
.4125	39000.00070000.000	200.000	-18.000	
.4184	40000.00070000.000	200.000	-18.000	
.2572	0.00090000.000	200.000	-18.000	
.2799	5000.00090000.000	200.000	-18.000	
.2977	10000.00090000.000	200.000	-18.000	
.3163	15000.00090000.000	200.000	-18.000	
.3372	20000.00090000.000	200.000	-18.000	
.3606	25000.00090000.000	200.000	-18.000	
.3880	30000.00090000.000	200.000	-18.000	
.3940	31000.00090000.000	200.000	-18.000	
.4002	32000.00090000.000	200.000	-18.000	
.4066	33000.00090000.000	200.000	-18.000	
.4131	34000.00090000.000	200.000	-18.000	
.2604	0.000100000.000	200.000	-18.000	
.2838	5000.000100000.000	200.000	-18.000	
.3036	10000.000100000.000	200.000	-18.000	
.3233	15000.000100000.000	200.000	-18.000	
.3451	20000.000100000.000	200.000	-18.000	
.1704	25000.000100000.000	200.000	-18.000	
.1998	30000.000100000.000	200.000	-18.000	
.4062	31000.000100000.000	200.000	-18.000	
.2669	0.000120000.000	200.000	-18.000	
.2922	5000.000120000.000	200.000	-18.000	
.3157	10000.000120000.000	200.000	-18.000	
.3368	15000.000120000.000	200.000	-18.000	
.3613	20000.000120000.000	200.000	-18.000	
.3897	25000.000120000.000	200.000	-18.000	
.3958	26000.000120000.000	200.000	-18.000	

NADC-77036-30

.2765	0.000145000.000	200.000	-18.000
.3034	5000.000145000.000	200.000	-18.000
.3299	10000.000145000.000	200.000	-18.000
.3558	15000.000145000.000	200.000	-18.000
.3815	16000.000145000.000	200.000	-18.000
.3847	17000.000145000.000	200.000	-18.000
.3701	18000.000145000.000	200.000	-18.000
.3757	19000.000145000.000	200.000	-18.000
.3814	20000.000145000.000	200.000	-18.000

CURSEL27071904180616261008271123132825201430051543214731424636
FINISH

FRIDAY, JUL 2, 1976

BMD04V - ANALYSIS OF COVARIANCE - MULTIPLE COVARIATES - REVISED OCTOBER 2, 1972
 HEALTH SCIENCES COMPUTING FACILITY, UCLA (NADC REVISION JULY 2, 1976 J.J. FRANZ)

PROBLM4MACDT0200770010503101YES005 N002YESYESYES YES NOYES740001

PROBLEM CODE.....4MACDT
 NUMBER OF TREATMENT GROUPS..... 2
 TOTAL NUMBER OF CASES..... 770
 NUMBER OF CARDS PER CASE..... 1
 NUMBER OF ENTERING VARIABLES..... 5
 NUMBER OF VARIABLES ADDED..... 31
 INDEX OF THE DEPENDENT VARIABLE..... 1
 PRINT DATA INPUT..... YES
 NUMBER OF VARIABLES NAMED..... 5
 USE DATA CARDS OF LAST PROBLEM.. NO
 NUMBER OF GROUP DEFINITION CARDS..... 2
 PRINT RESIDUALS (WITHIN)..... YES
 PRINT RESIDUALS (TOTAL)..... YES
 PRINT TRANSGENERATED VARIABLES.. YES
 PRINT CORRELATION MATRICES..... YES
 FORECAST DATA INPUT..... NO
 REWIND INPUT TAPE..... YES
 NUMBER OF TRANSGENERATION CARDS..... 74
 SPECIFIED BCD TAPE NUMBER..... 0
 NUMBER OF VARIABLE FORMAT CARDS..... 1

FRIDAY, JUL 2, 1976

TRANS-GENERATION CARDS

CARD	NEW	TRANS	OLD	CONST.
NO.	VAR.	CODE	VAR(A)	OR VAR(B)

1	2	9	2	.00010
2	3	9	3	.00010
3	5	10	2	.50000
4	7	10	2	1.50000
5	8	10	3	-.50000
6	9	13	3	3.00000
7	10	13	9	3.00000
8	11	13	4	4.00000
9	12	13	5	5.00000
10	13	13	12	5.00000
11	14	13	6	8.00000
12	15	13	7	10.00000
13	16	13	7	8.00000
14	17	13	7	10.00000
15	18	13	4	6.00000
16	19	13	4	7.00000
17	20	13	4	8.00000
18	21	13	4	10.00000
19	22	13	11	6.00000
20	23	13	11	7.00000
21	24	13	11	8.00000
22	25	13	11	10.00000
23	26	13	5	6.00000
24	27	13	5	7.00000
25	28	13	5	8.00000
26	29	13	5	10.00000
27	30	13	13	6.00000
28	31	13	13	7.00000
29	32	13	13	8.00000
30	33	13	13	10.00000
31	34	13	5	4.00000
32	35	13	5	11.00000
33	36	13	13	4.00000
34	37	13	13	11.00000
35	38	13	5	14.00000
36	39	13	5	15.00000
37	40	13	5	16.00000
38	41	13	5	17.00000
39	42	13	5	18.00000
40	43	13	5	19.00000
41	44	13	5	20.00000
42	45	13	5	21.00000
43	46	13	5	22.00000
44	47	13	5	23.00000
45	48	13	5	24.00000
46	49	13	5	25.00000
47	50	13	13	14.00000
48	51	13	13	15.00000
49	52	13	13	16.00000
50	53	13	13	17.00000

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANS-GENERATION CARDS

CARD NEW TRANS OLD CONST.
NO. VAR. CODE VAR(A) OR VAR(B)

CARD NO.	VAR.	TRANS	OLD	CONST.
51	54	13	13	18.00000
52	55	13	13	19.00000
53	56	13	13	20.00000
54	57	13	13	21.00000
55	58	13	13	22.00000
56	59	13	13	23.00000
57	60	13	13	24.00000
58	61	13	13	25.00000
59	62	13	38	4.00000
60	63	13	42	10.00000
61	64	13	43	8.00000
62	65	13	45	7.00000
63	66	13	46	8.00000
64	67	13	46	10.00000
65	68	13	47	8.00000
66	69	13	47	10.00000
67	70	13	50	4.00000
68	71	13	51	4.00000
69	72	13	52	4.00000
70	73	13	53	4.00000
71	74	13	58	8.00000
72	75	13	58	10.00000
73	76	13	59	8.00000
74	77	13	59	10.00000

GROUP DEFINITION CARDS

A CASE IS IN GROUP 1 IF,
VAR(5) IS LE 0.00000 *
A CASE IS IN GROUP 2 IF,
VAR(5) IS GT 0.00000 *

FRIDAY, JUL 2, 1976

NADC-77036-30

FRIDAY, JUL 2, 1976

LABELS CARDS

0001 MACH 0002 ALT 0003 WT 0004 DC 0005 DT

THE VARIABLE FORMAT CARDS
(10X,F10.4,4F10.3)

FRIDAY, JUL 2, 1976

NADC-77036-30

FRIDAY, JUL 2, 1976

GROUP NO. SAMPLE
SPECIFIED ASSIGNED* SIZE

1 1 401
2 2 369

FRIDAY, JUL 2, 1976

COVARIATE SELECTION CARDS

CURSEL27071904180616261008271123132825201430051543214731424636

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT					GROUP NUMBER	
CASE NUMBER	1				0.000	1
CASE NUMBER	.3265	119.048	70000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	2				0.000	1
CASE NUMBER	.3436	5000.000	70000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	3				0.000	1
CASE NUMBER	.3605	10238.095	70000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	4				0.000	1
CASE NUMBER	.3802	15000.000	70000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	5				0.000	1
CASE NUMBER	.4021	20000.000	70000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	6				0.000	1
CASE NUMBER	.4315	25000.000	70000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	7				0.000	1
CASE NUMBER	.4661	30000.000	70000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	8				0.000	1
CASE NUMBER	.5010	35000.000	70000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	9				0.000	1
CASE NUMBER	.5415	40000.000	70000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	10				0.000	1
CASE NUMBER	.5491	41000.000	70000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	11				0.000	1
CASE NUMBER	.5504	42000.000	70000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	12				0.000	1
CASE NUMBER	.5501	43000.000	70000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	13				0.000	1
CASE NUMBER	.5536	44000.000	70000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	14				0.000	1
CASE NUMBER	.3298	0.000	90000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	15				0.000	1
CASE NUMBER	.3458	5000.000	90000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	16				0.000	1
CASE NUMBER	.3704	10000.000	90000.000	-50.000	0.000	GROUP NUMBER

FRIDAY, JUL 2, 1976

DATA INPUT					GROUP NUMBER	
CASE NUMBER	17				0.000	1
CASE NUMBER	.3989	15000.000	90000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	18				0.000	1
CASE NUMBER	.4296	20000.000	90000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	19				0.000	1
CASE NUMBER	.4608	25000.000	90000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	20				0.000	1
CASE NUMBER	.4952	30000.000	90000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	21				0.000	1
CASE NUMBER	.5440	35000.000	90000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	22				0.000	1
CASE NUMBER	.5491	36000.000	90000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	23				0.000	1
CASE NUMBER	.5499	37000.000	90000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	24				0.000	1
CASE NUMBER	.5499	38000.000	90000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	25				0.000	1
CASE NUMBER	.5549	39000.000	90000.000	-50.000	0.000	GROUP NUMBER
CASE NUMBER	26				0.000	1
CASE NUMBER	.3320	0.000100000.000	-50.000	0.000	GROUP NUMBER	
CASE NUMBER	27				1	
CASE NUMBER	.3515	4404.762100000.000	-50.000	0.000	GROUP NUMBER	
CASE NUMBER	28				1	
CASE NUMBER	.3814	10000.000100000.000	-50.000	0.000	GROUP NUMBER	
CASE NUMBER	29				1	
CASE NUMBER	.4114	15000.000100000.000	-50.000	0.000	GROUP NUMBER	
CASE NUMBER	30				1	
CASE NUMBER	.4406	20000.000100000.000	-50.000	0.000	GROUP NUMBER	
CASE NUMBER	31				1	
CASE NUMBER	.4730	24940.476100000.000	-50.000	0.000	GROUP NUMBER	
CASE NUMBER	32				1	
CASE NUMBER	.5128	30000.000100000.000	-50.000	0.000	GROUP NUMBER	

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT					GROUP NUMBER		
CASE NUMBER	33	.5499	35000.000	100000.000	-50.000	0.000	1
CASE NUMBER	34	.5510	36000.000	100000.000	-50.000	0.000	1
CASE NUMBER	35	.5561	37000.000	100000.000	-50.000	0.000	1
CASE NUMBER	36	.3453	0.000	120000.000	-50.000	0.000	1
CASE NUMBER	37	.3728	5000.000	120000.000	-50.000	0.000	1
CASE NUMBER	38	.4011	10000.000	120000.000	-50.000	0.000	1
CASE NUMBER	39	.4282	15000.000	120000.000	-50.000	0.000	1
CASE NUMBER	40	.4568	20000.000	120000.000	-50.000	0.000	1
CASE NUMBER	41	.4941	25000.000	120000.000	-50.000	0.000	1
CASE NUMBER	42	.5441	30000.000	120000.000	-50.000	0.000	1
CASE NUMBER	43	.5490	31000.000	120000.000	-50.000	0.000	1
CASE NUMBER	44	.5503	32000.000	120000.000	-50.000	0.000	1
CASE NUMBER	45	.3618	0.000	145000.000	-50.000	0.000	1
CASE NUMBER	46	.3895	5059.524	145000.000	-50.000	0.000	1
CASE NUMBER	47	.4200	10416.667	145000.000	-50.000	0.000	1
CASE NUMBER	48	.4440	14226.190	145000.000	-50.000	0.000	1

FRIDAY, JUL 2, 1976

DATA INPUT					GROUP NUMBER		
CASE NUMBER	49	.4850	20000.000	145000.000	-50.000	0.000	1
CASE NUMBER	50	.5252	25000.000	145000.000	-50.000	0.000	1
CASE NUMBER	51	.5353	26000.000	145000.000	-50.000	0.000	1
CASE NUMBER	52	.2986	0.000	70000.000	0.000	0.000	1
CASE NUMBER	53	.3170	5000.000	70000.000	0.000	0.000	1
CASE NUMBER	54	.3345	10000.000	70000.000	0.000	0.000	1
CASE NUMBER	55	.3545	14583.333	70000.000	0.000	0.000	1
CASE NUMBER	56	.3818	20000.000	70000.000	0.000	0.000	1
CASE NUMBER	57	.4091	25000.000	70000.000	0.000	0.000	1
CASE NUMBER	58	.4375	30178.571	70000.000	0.000	0.000	1
CASE NUMBER	59	.4667	35000.000	70000.000	0.000	0.000	1
CASE NUMBER	60	.4950	40000.000	70000.000	0.000	0.000	1
CASE NUMBER	61	.5029	41000.000	70000.000	0.000	0.000	1
CASE NUMBER	62	.5100	42000.000	70000.000	0.000	0.000	1
CASE NUMBER	63	.5183	43000.000	70000.000	0.000	0.000	1
CASE NUMBER	64	.3036	0.000	90000.000	0.000	0.000	1

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT					GROUP NUMBER	
CASE NUMBER	65				0.000	1
CASE NUMBER	.3272	5000.000	90000.000	0.000	0.000	GROUP NUMBER
CASE NUMBER	66	.3527	10000.000	90000.000	0.000	1
CASE NUMBER	67	.3778	15000.000	90000.000	0.000	0.000
CASE NUMBER	68	.4018	20000.000	90000.000	0.000	0.000
CASE NUMBER	69	.4279	25000.000	90000.000	0.000	0.000
CASE NUMBER	70	.4579	30000.000	90000.000	0.000	0.000
CASE NUMBER	71	.4978	35000.000	90000.000	0.000	0.000
CASE NUMBER	72	.5044	36000.000	90000.000	0.000	0.000
CASE NUMBER	73	.5117	37000.000	90000.000	0.000	0.000
CASE NUMBER	74	.3128	0.000	100000.000	0.000	0.000
CASE NUMBER	75	.3360	5000.000	100000.000	0.000	0.000
CASE NUMBER	76	.3615	10000.000	100000.000	0.000	0.000
CASE NUMBER	77	.3844	15000.000	100000.000	0.000	0.000
CASE NUMBER	78	.4101	20000.000	100000.000	0.000	0.000
CASE NUMBER	79	.4384	25000.000	100000.000	0.000	0.000
CASE NUMBER	80	.4719	30000.000	100000.000	0.000	0.000

FRIDAY, JUL 2, 1976

DATA INPUT					GROUP NUMBER	
CASE NUMBER	81	.4802	31000.000	100000.000	0.000	0.000
CASE NUMBER	82	.4891	32000.000	100000.000	0.000	0.000
CASE NUMBER	83	.4979	33000.000	100000.000	0.000	0.000
CASE NUMBER	84	.5061	34000.000	100000.000	0.000	0.000
CASE NUMBER	85	.5132	35000.000	100000.000	0.000	0.000
CASE NUMBER	86	.3260	119.048	120000.000	0.000	0.000
CASE NUMBER	87	.3472	5000.000	120000.000	0.000	0.000
CASE NUMBER	88	.3727	10000.000	120000.000	0.000	0.000
CASE NUMBER	89	.3997	15000.000	120000.000	0.000	0.000
CASE NUMBER	90	.4267	20000.000	120000.000	0.000	0.000
CASE NUMBER	91	.4596	25000.000	120000.000	0.000	0.000
CASE NUMBER	92	.4670	26000.000	120000.000	0.000	0.000
CASE NUMBER	93	.4741	27000.000	120000.000	0.000	0.000
CASE NUMBER	94	.4822	28000.000	120000.000	0.000	0.000
CASE NUMBER	95	.4912	29000.000	120000.000	0.000	0.000
CASE NUMBER	96	.5012	30000.000	120000.000	0.000	0.000

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT					GROUP NUMBER	
CASE NUMBER	97				0.000	1
CASE NUMBER	.3384	0.000145000.000	0.000	0.000	0.000	1
CASE NUMBER	98				0.000	1
CASE NUMBER	.3623	5000.000145000.000	0.000	0.000	0.000	1
CASE NUMBER	99				0.000	1
CASE NUMBER	.3900	10000.000145000.000	0.000	0.000	0.000	1
CASE NUMBER	100				0.000	1
CASE NUMBER	.4171	15000.000145000.000	0.000	0.000	0.000	1
CASE NUMBER	101				0.000	1
CASE NUMBER	.4491	20000.000145000.000	0.000	0.000	0.000	1
CASE NUMBER	102				0.000	1
CASE NUMBER	.4558	21000.000145000.000	0.000	0.000	0.000	1
CASE NUMBER	103				0.000	1
CASE NUMBER	.4634	22000.000145000.000	0.000	0.000	0.000	1
CASE NUMBER	104				0.000	1
CASE NUMBER	.4712	23000.000145000.000	0.000	0.000	0.000	1
CASE NUMBER	105				0.000	1
CASE NUMBER	.4791	24000.000145000.000	0.000	0.000	0.000	1
CASE NUMBER	106				0.000	1
CASE NUMBER	.2671	0.000 70000.000	100.000	0.000	0.000	1
CASE NUMBER	107				0.000	1
CASE NUMBER	.2861	5000.000 70000.000	100.000	0.000	0.000	1
CASE NUMBER	108				0.000	1
CASE NUMBER	.3049	10000.000 70000.000	100.000	0.000	0.000	1
CASE NUMBER	.3231	15000.000 70000.000	100.000	0.000	0.000	1
CASE NUMBER	110				0.000	1
CASE NUMBER	.3416	20000.000 70000.000	100.000	0.000	0.000	1
CASE NUMBER	111				0.000	1
CASE NUMBER	.3635	25000.000 70000.000	100.000	0.000	0.000	1
CASE NUMBER	112				0.000	1
	.3889	30000.000 70000.000	100.000	0.000	0.000	1

FRIDAY, JUL 2, 1976

DATA INPUT					GROUP NUMBER	
CASE NUMBER	113				0.000	1
CASE NUMBER	.4186	35000.000 70000.000	100.000	0.000	0.000	1
CASE NUMBER	114				0.000	1
CASE NUMBER	.4238	36000.000 70000.000	100.000	0.000	0.000	1
CASE NUMBER	115				0.000	1
CASE NUMBER	.4294	37000.000 70000.000	100.000	0.000	0.000	1
CASE NUMBER	116				0.000	1
CASE NUMBER	.4352	38000.000 70000.000	100.000	0.000	0.000	1
CASE NUMBER	117				0.000	1
CASE NUMBER	.4411	39000.000 70000.000	100.000	0.000	0.000	1
CASE NUMBER	118				0.000	1
CASE NUMBER	.4473	40000.000 70000.000	100.000	0.000	0.000	1
CASE NUMBER	119				0.000	1
CASE NUMBER	.2784	0.000 90000.000	100.000	0.000	0.000	1
CASE NUMBER	120				0.000	1
CASE NUMBER	.3000	5000.000 90000.000	100.000	0.000	0.000	1
CASE NUMBER	121				0.000	1
CASE NUMBER	.3168	10000.000 90000.000	100.000	0.000	0.000	1
CASE NUMBER	122				0.000	1
CASE NUMBER	.3383	15000.000 90000.000	100.000	0.000	0.000	1
CASE NUMBER	123				0.000	1
CASE NUMBER	.3584	20000.000 90000.000	100.000	0.000	0.000	1
CASE NUMBER	124				0.000	1
CASE NUMBER	.3838	25000.000 90000.000	100.000	0.000	0.000	1
CASE NUMBER	125				0.000	1
CASE NUMBER	.4138	30000.000 90000.000	100.000	0.000	0.000	1
CASE NUMBER	126				0.000	1
CASE NUMBER	.4205	31000.000 90000.000	100.000	0.000	0.000	1
CASE NUMBER	127				0.000	1
CASE NUMBER	.4271	32000.000 90000.000	100.000	0.000	0.000	1
CASE NUMBER	128				0.000	1
	.4338	33000.000 90000.000	100.000	0.000	0.000	1

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT					GROUP NUMBER	
CASE NUMBER	129	.4410	34000.000	90000.000	100.000	0.000
CASE NUMBER	130	.4488	35000.000	90000.000	100.000	0.000
CASE NUMBER	131	.2847	190.476100000	0.000	100.000	0.000
CASE NUMBER	132	.3052	5000.000	100000.000	100.000	0.000
CASE NUMBER	133	.3229	10000.000	100000.000	100.000	0.000
CASE NUMBER	134	.3432	15000.000	100000.000	100.000	0.000
CASE NUMBER	135	.3670	20000.000	100000.000	100.000	0.000
CASE NUMBER	136	.3943	25000.000	100000.000	100.000	0.000
CASE NUMBER	137	.4259	30000.000	100000.000	100.000	0.000
CASE NUMBER	138	.4327	31000.000	100000.000	100.000	0.000
CASE NUMBER	139	.4396	32000.000	100000.000	100.000	0.000
CASE NUMBER	140	.2903	0.000	120000.000	100.000	0.000
CASE NUMBER	141	.3126	5000.000	120000.000	100.000	0.000
CASE NUMBER	142	.3345	10000.000	120000.000	100.000	0.000
CASE NUMBER	143	.3575	15000.000	120000.000	100.000	0.000
CASE NUMBER	144	.3845	20000.000	120000.000	100.000	0.000

FRIDAY, JUL 2, 1976

DATA INPUT					GROUP NUMBER	
CASE NUMBER	145	.4153	25000.000	120000.000	100.000	0.000
CASE NUMBER	146	.4216	26000.000	120000.000	100.000	0.000
CASE NUMBER	147	.4283	27000.000	120000.000	100.000	0.000
CASE NUMBER	148	.3020	0.000	145000.000	100.000	0.000
CASE NUMBER	149	.3250	5000.000	145000.000	100.000	0.000
CASE NUMBER	150	.3496	10000.000	145000.000	100.000	0.000
CASE NUMBER	151	.3760	15000.000	145000.000	100.000	0.000
CASE NUMBER	152	.4065	20000.000	145000.000	100.000	0.000
CASE NUMBER	153	.4126	21000.000	145000.000	100.000	0.000
CASE NUMBER	154	.2520	0.000	70000.000	200.000	0.000
CASE NUMBER	155	.2647	5000.000	70000.000	200.000	0.000
CASE NUMBER	156	.2782	10000.000	70000.000	200.000	0.000
CASE NUMBER	157	.2939	15000.000	70000.000	200.000	0.000
CASE NUMBER	158	.3116	20000.000	70000.000	200.000	0.000
CASE NUMBER	159	.3340	25000.000	70000.000	200.000	0.000
CASE NUMBER	160	.3577	30000.000	70000.000	200.000	0.000

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	161	.3858 35000.000 70000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	162	.3908 36000.000 70000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	163	.3962 37000.000 70000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	164	.4019 38000.000 70000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	165	.2585 0.000 90000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	166	.2734 5000.000 90000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	167	.2897 10000.000 90000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	168	.3083 15000.000 90000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	169	.3298 20000.000 90000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	170	.3539 25000.000 90000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	171	.3822 30000.000 90000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	172	.3884 31000.000 90000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	173	.3948 32000.000 90000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	174	.2619 0.000100000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	175	.2783 5000.000100000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	176	.2956 10000.000100000.000	200.000	0.000	GROUP NUMBER	1

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	177	.3160 15000.000100000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	178	.3382 20000.000100000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	179	.3639 25000.000100000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	180	.3896 26000.000100000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	181	.3754 27000.000100000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	182	.3815 28000.000100000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	183	.3878 29000.000100000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	184	.2691 0.000120000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	185	.2887 5000.000120000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	186	.3083 10000.000120000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	187	.3304 15000.000120000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	188	.3550 20000.000120000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	189	.3605 21000.000120000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	190	.3661 22000.000120000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	191	.3719 23000.000120000.000	200.000	0.000	GROUP NUMBER	1
	CASE NUMBER	192	.3779 24000.000120000.000	200.000	0.000	GROUP NUMBER	1

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT					GROUP NUMBER	
CASE NUMBER	193	.2821	142.857145000.000	200.000	0.000	1
CASE NUMBER	194	.3033	5000.000145000.000	200.000	0.000	1
CASE NUMBER	195	.3236	10000.000145000.000	200.000	0.000	1
CASE NUMBER	196	.3477	15000.000145000.000	200.000	0.000	1
CASE NUMBER	197	.3529	16000.000145000.000	200.000	0.000	1
CASE NUMBER	198	.3584	17000.000145000.000	200.000	0.000	1
CASE NUMBER	199	.3641	18000.000145000.000	200.000	0.000	1
CASE NUMBER	200	.3057	0.000 70000.000	-50.000	18.000	2
CASE NUMBER	201	.3284	5000.000 70000.000	-50.000	18.000	2
CASE NUMBER	202	.3476	10000.000 70000.000	-50.000	18.000	2
CASE NUMBER	203	.3715	15535.714 70000.000	-50.000	18.000	2
CASE NUMBER	204	.3930	20000.000 70000.000	-50.000	18.000	2
CASE NUMBER	205	.4240	25119.048 70000.000	-50.000	18.000	2
CASE NUMBER	206	.4592	30000.000 70000.000	-50.000	18.000	2
CASE NUMBER	207	.4919	35000.000 70000.000	-50.000	18.000	2
CASE NUMBER	208	.5292	40000.000 70000.000	-50.000	18.000	2

FRIDAY, JUL 2, 1976

DATA INPUT					GROUP NUMBER	
CASE NUMBER	209	.5419	41000.000 70000.000	-50.000	18.000	2
CASE NUMBER	210	.5488	42000.000 70000.000	-50.000	18.000	2
CASE NUMBER	211	.5498	43000.000 70000.000	-50.000	18.000	2
CASE NUMBER	212	.3094	0.000 90000.000	-50.000	18.000	2
CASE NUMBER	213	.3344	5000.000 90000.000	-50.000	18.000	2
CASE NUMBER	214	.3620	10000.000 90000.000	-50.000	18.000	2
CASE NUMBER	215	.3920	15000.000 90000.000	-50.000	18.000	2
CASE NUMBER	216	.4220	20000.000 90000.000	-50.000	18.000	2
CASE NUMBER	217	.4503	25000.000 90000.000	-50.000	18.000	2
CASE NUMBER	218	.4854	30000.000 90000.000	-50.000	18.000	2
CASE NUMBER	219	.5325	35000.000 90000.000	-50.000	18.000	2
CASE NUMBER	220	.5439	36000.000 90000.000	-50.000	18.000	2
CASE NUMBER	221	.5494	37000.000 90000.000	-50.000	18.000	2
CASE NUMBER	222	.5502	38000.000 90000.000	-50.000	18.000	2
CASE NUMBER	223	.3174	0.000100000.000	-50.000	18.000	2
CASE NUMBER	224	.3455	5000.000100000.000	-50.000	18.000	2

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	225	.3743 10000.000100000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	226	.4040 15000.000100000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	227	.4350 20476.190100000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	228	.4650 25476.190100000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	229	.5026 30000.000100000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	230	.5495 35000.000100000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	231	.5498 36000.000100000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	232	.3364 0.000120000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	233	.3647 5000.000120000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	234	.3935 10000.000120000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	235	.4180 14583.333120000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	236	.4480 19464.286120000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	237	.4892 25000.000120000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	238	.4987 26000.000120000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	239	.5068 27000.000120000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	240	.5156 28000.000120000.000	-50.000	18.000	GROUP NUMBER	2

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	241	.5257 29000.000120000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	242	.5361 30000.000120000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	243	.3532 0.000145000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	244	.3807 5000.000145000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	245	.4070 10000.000145000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	246	.4382 15000.000145000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	247	.4759 20000.000145000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	248	.4954 21000.000145000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	249	.4939 22000.000145000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	250	.5022 23000.000145000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	251	.5103 24000.000145000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	252	.5189 25000.000145000.000	-50.000	18.000	GROUP NUMBER	2
	CASE NUMBER	253	.2848 0.000 70000.000	0.000	18.000	GROUP NUMBER	2
	CASE NUMBER	254	.3048 5000.000 70000.000	0.000	18.000	GROUP NUMBER	2
	CASE NUMBER	255	.3275 10178.571 70000.000	0.000	18.000	GROUP NUMBER	2
	CASE NUMBER	256	.3474 15000.000 70000.000	0.000	18.000	GROUP NUMBER	2

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	257	GROUP NUMBER	2
		.3734 20000.000 70000.000	0.000	18.000
	258	.3985 25000.000 70000.000	0.000	18.000
	259	.4261 30000.000 70000.000	0.000	18.000
	260	.4579 35238.095 70000.000	0.000	18.000
	261	.4896 40000.000 70000.000	0.000	18.000
	262	.4965 41000.000 70000.000	0.000	18.000
	263	.2948 0.000 90000.000	0.000	18.000
	264	.3197 5000.000 90000.000	0.000	18.000
	265	.3445 10000.000 90000.000	0.000	18.000
	266	.3564 15000.000 90000.000	0.000	18.000
	267	.3913 20000.000 90000.000	0.000	18.000
	268	.4213 25000.000 90000.000	0.000	18.000
	269	.4521 30000.000 90000.000	0.000	18.000
	270	.4912 35000.000 90000.000	0.000	18.000
	271	.4981 36000.000 90000.000	0.000	18.000
	272	.3015 0.000100000.000	0.000	18.000

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	273	GROUP NUMBER	2
		.3269 5000.000100000.000	0.000	18.000
	274	.3505 10000.000100000.000	0.000	18.000
	275	.3736 15000.000100000.000	0.000	18.000
	276	.4019 20000.000100000.000	0.000	18.000
	277	.4310 25000.000100000.000	0.000	18.000
	278	.4652 30000.000100000.000	0.000	18.000
	279	.4732 31000.000100000.000	0.000	18.000
	280	.4816 32000.000100000.000	0.000	18.000
	281	.4901 33000.000100000.000	0.000	18.000
	282	.3116 0.000120000.000	0.000	18.000
	283	.3365 5000.000120000.000	0.000	18.000
	284	.3633 10000.000120000.000	0.000	18.000
	285	.3909 15000.000120000.000	0.000	18.000
	286	.4195 20000.000120000.000	0.000	18.000
	287	.4522 25000.000120000.000	0.000	18.000
	288	.4587 26000.000120000.000	0.000	18.000

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT CASE NUMBER					GROUP NUMBER		
CASE NUMBER	289					2	
CASE NUMBER	.4676	27000.000120000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	290	.4760	28000.000120000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	291	.3263	0.000145000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	292	.3533	5000.000145000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	293	.3810	10000.000145000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	294	.4100	15000.000145000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	295	.4418	20000.000145000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	296	.4490	21000.000145000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	297	.4565	22000.000145000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	298	.2613	0.000 70000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	299	.2780	5000.000 70000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	300	.2955	10000.000 70000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	301	.3128	15000.000 70000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	302	.3331	20000.000 70000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	303	.3547	25000.000 70000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	304	.3806	30000.000 70000.000	100.000	18.000	GROUP NUMBER	2

FRIDAY, JUL 2, 1976

DATA INPUT CASE NUMBER					GROUP NUMBER		
CASE NUMBER	305	.4117	35000.000 70000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	306	.4171	36000.000 70000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	307	.4230	37000.000 70000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	308	.4292	38000.000 70000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	309	.4356	39000.000 70000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	310	.2711	0.000 90000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	311	.2892	5000.000 90000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	312	.3076	10000.000 90000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	313	.3278	15000.000 90000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	314	.3501	20000.000 90000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	315	.3763	25000.000 90000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	316	.4072	30000.000 90000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	317	.4139	31000.000 90000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	318	.4212	32000.000 90000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	319	.4284	33000.000 90000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	320	.2745	0.000100000.000	100.000	18.000	GROUP NUMBER	2

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT CASE NUMBER					GROUP NUMBER	
321	.2956	5000.000100000.000	100.000	18.000	GROUP NUMBER	2
322	.3141	10000.000100000.000	100.000	18.000	GROUP NUMBER	2
323	.3351	15000.000100000.000	100.000	18.000	GROUP NUMBER	2
324	.3590	20000.000100000.000	100.000	18.000	GROUP NUMBER	2
325	.3874	25000.000100000.000	100.000	18.000	GROUP NUMBER	2
326	.3936	26000.000100000.000	100.000	18.000	GROUP NUMBER	2
327	.4000	27000.000100000.000	100.000	18.000	GROUP NUMBER	2
328	.4066	28000.000100000.000	100.000	18.000	GROUP NUMBER	2
329	.4135	29000.000100000.000	100.000	18.000	GROUP NUMBER	2
330	.4205	30000.000100000.000	100.000	18.000	GROUP NUMBER	2
331	.2825	0.000120000.000	100.000	18.000	GROUP NUMBER	2
332	.3044	5000.000120000.000	100.000	18.000	GROUP NUMBER	2
333	.3265	10000.000120000.000	100.000	18.000	GROUP NUMBER	2
334	.3499	15000.000120000.000	100.000	18.000	GROUP NUMBER	2
335	.3773	20000.000120000.000	100.000	18.000	GROUP NUMBER	2
336	.3833	21000.000120000.000	100.000	18.000	GROUP NUMBER	2

FRIDAY, JUL 2, 1976

DATA INPUT CASE NUMBER					GROUP NUMBER	
337	.3895	22000.000120000.000	100.000	18.000	GROUP NUMBER	2
338	.3959	23000.000120000.000	100.000	18.000	GROUP NUMBER	2
339	.4026	24000.000120000.000	100.000	18.000	GROUP NUMBER	2
340	.4095	25000.000120000.000	100.000	18.000	GROUP NUMBER	2
341	.2929	0.000145000.000	100.000	18.000	GROUP NUMBER	2
342	.3172	5000.000145000.000	100.000	18.000	GROUP NUMBER	2
343	.3424	10000.000145000.000	100.000	18.000	GROUP NUMBER	2
344	.3691	15000.000145000.000	100.000	18.000	GROUP NUMBER	2
345	.3750	16000.000145000.000	100.000	18.000	GROUP NUMBER	2
346	.3811	17000.000145000.000	100.000	18.000	GROUP NUMBER	2
347	.3873	18000.000145000.000	100.000	18.000	GROUP NUMBER	2
348	.3937	19000.000145000.000	100.000	18.000	GROUP NUMBER	2
349	.2456	0.000 70000.000	200.000	18.000	GROUP NUMBER	2
350	.2555	5000.000 70000.000	200.000	18.000	GROUP NUMBER	2
351	.2705	10000.000 70000.000	200.000	18.000	GROUP NUMBER	2
352	.2863	15000.000 70000.000	200.000	18.000	GROUP NUMBER	2

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	353	.3042 20000.000 70000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	354	.3253 25000.000 70000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	355	.3506 30000.000 70000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	356	.3797 35000.000 70000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	357	.3849 36000.000 70000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	358	.3905 37000.000 70000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	359	.2521 0.000 90000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	360	.2651 5000.000 90000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	361	.2819 10000.000 90000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	362	.3009 15000.000 90000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	363	.3228 20000.000 90000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	364	.3472 25000.000 90000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	365	.3761 30000.000 90000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	366	.3824 31000.000 90000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	367	.2557 0.000100000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	368	.2701 5000.000100000.000	200.000	18.000	GROUP NUMBER	2

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	369	.2881 10000.000100000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	370	.3087 15000.000100000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	371	.3323 20000.000100000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	372	.3576 25000.000100000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	373	.3634 26000.000100000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	374	.3694 27000.000100000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	375	.3756 28000.000100000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	376	.2634 0.000120000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	377	.2807 5000.000120000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	378	.3012 10000.000120000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	379	.3238 15000.000120000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	380	.3490 20000.000120000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	381	.3545 21000.000120000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	382	.3602 22000.000120000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	383	.2737 0.000145000.000	200.000	18.000	GROUP NUMBER	2
	CASE NUMBER	384	.2967 5000.000145000.000	200.000	18.000	GROUP NUMBER	2

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	185	18.000	GROUP NUMBER	2
	CASE NUMBER	.3173 10000.000145000.000	200.000	18.000	GROUP NUMBER 2
	CASE NUMBER	.3419 15000.000145000.000	200.000	18.000	GROUP NUMBER 2
	CASE NUMBER	.3475 16000.000145000.000	200.000	18.000	GROUP NUMBER 2
	CASE NUMBER	.2936 0.000 70000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.3129 5000.000 70000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.3347 10000.000 70000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.3605 15476.190 70000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.3864 20000.000 70000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.4193 25000.000 70000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.4488 30000.000 70000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.4844 35000.000 70000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.5174 40000.000 70000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.5285 41000.000 70000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.5401 42000.000 70000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.3018 0.000 90000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.3281 5000.000 90000.000	-50.000	36.000	GROUP NUMBER 2

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	401	36.000	GROUP NUMBER	2
	CASE NUMBER	.3556 10000.000 90000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.3846 15000.000 90000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.4131 20000.000 90000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.4395 25000.000 90000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.4778 30000.000 90000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.5189 35000.000 90000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.5315 36000.000 90000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.3108 0.000100000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.3382 5000.000100000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.3666 10000.000100000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.3954 15000.000100000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.4210 19761.905100000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.4528 25000.000100000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.4953 30000.000100000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.5054 31000.000100000.000	-50.000	36.000	GROUP NUMBER 2
	CASE NUMBER	.5147 32000.000100000.000	-50.000	36.000	GROUP NUMBER 2

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER				GROUP NUMBER	
	417					2
CASE NUMBER	418	.5232 33000.000100000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	419	.5332 34000.000100000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	420	.3263 0.000120000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	421	.3538 5000.000120000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	422	.3820 10000.000120000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	423	.4092 15000.000120000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	424	.4405 20000.000120000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	425	.4796 25000.000120000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	426	.4892 26000.000120000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	427	.4992 27000.000120000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	428	.5081 28000.000120000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	429	.5176 29000.000120000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	430	.3393 0.000145000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	431	.3693 5000.000145000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	432	.3997 10000.000145000.000	-50.000	36.000	GROUP NUMBER	2
		.4302 15000.000145000.000	-50.000	36.000		

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER				GROUP NUMBER	
	433					2
CASE NUMBER	434	.4671 20000.000145000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	435	.4761 21000.000145000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	436	.4856 22000.000145000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	437	.2747 0.000 70000.000	0.000	36.000	GROUP NUMBER	2
CASE NUMBER	438	.2919 5000.000 70000.000	0.000	36.000	GROUP NUMBER	2
CASE NUMBER	439	.3168 10000.000 70000.000	0.000	36.000	GROUP NUMBER	2
CASE NUMBER	440	.3400 15000.000 70000.000	0.000	36.000	GROUP NUMBER	2
CASE NUMBER	441	.3632 20000.000 70000.000	0.000	36.000	GROUP NUMBER	2
CASE NUMBER	442	.3879 24857.143 70000.000	0.000	36.000	GROUP NUMBER	2
CASE NUMBER	443	.4187 30000.000 70000.000	0.000	36.000	GROUP NUMBER	2
CASE NUMBER	444	.4523 35000.000 70000.000	0.000	36.000	GROUP NUMBER	2
CASE NUMBER	445	.4580 36000.000 70000.000	0.000	36.000	GROUP NUMBER	2
CASE NUMBER	446	.4641 37000.000 70000.000	0.000	36.000	GROUP NUMBER	2
CASE NUMBER	447	.4704 38000.000 70000.000	0.000	36.000	GROUP NUMBER	2
CASE NUMBER	448	.4770 39000.000 70000.000	0.000	36.000	GROUP NUMBER	2
		.4838 40000.000 70000.000	0.000	36.000		

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT					GROUP NUMBER	
CASE NUMBER	449				36.000	2
	.2884	0.000	90000.000	0.000	36.000	
CASE NUMBER	450				36.000	2
	.3105	5000.000	90000.000	0.000	36.000	
CASE NUMBER	451				36.000	2
	.3341	10000.000	90000.000	0.000	36.000	
CASE NUMBER	452				36.000	2
	.3559	15000.000	90000.000	0.000	36.000	
CASE NUMBER	453				36.000	2
	.3820	20000.000	90000.000	0.000	36.000	
CASE NUMBER	454				36.000	2
	.4123	25000.000	90000.000	0.000	36.000	
CASE NUMBER	455				36.000	2
	.4452	30000.000	90000.000	0.000	36.000	
CASE NUMBER	456				36.000	2
	.4526	31000.000	90000.000	0.000	36.000	
CASE NUMBER	457				36.000	2
	.4601	32000.000	90000.000	0.000	36.000	
CASE NUMBER	458				36.000	2
	.4685	33000.000	90000.000	0.000	36.000	
CASE NUMBER	459				36.000	2
	.4770	34000.000	90000.000	0.000	36.000	
CASE NUMBER	460				36.000	2
	.4855	35000.000	90000.000	0.000	36.000	
CASE NUMBER	461				36.000	2
	.2942	0.000100000.000		0.000	36.000	
CASE NUMBER	462				36.000	2
	.3178	5000.000100000.000		0.000	36.000	
CASE NUMBER	463				36.000	2
	.3399	10000.000100000.000		0.000	36.000	
CASE NUMBER	464				36.000	2
	.3645	15000.000100000.000		0.000	36.000	

FRIDAY, JUL 2, 1976

DATA INPUT					GROUP NUMBER	
CASE NUMBER	465				36.000	2
	.3923	20000.000100000.000		0.000	36.000	
CASE NUMBER	466				36.000	2
	.4233	25000.000100000.000		0.000	36.000	
CASE NUMBER	467				36.000	2
	.4587	30000.000100000.000		0.000	36.000	
CASE NUMBER	468				36.000	2
	.4668	31000.000100000.000		0.000	36.000	
CASE NUMBER	469				36.000	2
	.4754	32000.000100000.000		0.000	36.000	
CASE NUMBER	470				36.000	2
	.3026	0.000120000.000		0.000	36.000	
CASE NUMBER	471				36.000	2
	.3287	5000.000120000.000		0.000	36.000	
CASE NUMBER	472				36.000	2
	.3546	10000.000120000.000		0.000	36.000	
CASE NUMBER	473				36.000	2
	.3817	15000.000120000.000		0.000	36.000	
CASE NUMBER	474				36.000	2
	.4125	20000.000120000.000		0.000	36.000	
CASE NUMBER	475				36.000	2
	.4456	25000.000120000.000		0.000	36.000	
CASE NUMBER	476				36.000	2
	.4532	26000.000120000.000		0.000	36.000	
CASE NUMBER	477				36.000	2
	.3163	0.000145000.000		0.000	36.000	
CASE NUMBER	478				36.000	2
	.3437	5000.000145000.000		0.000	36.000	
CASE NUMBER	479				36.000	2
	.3730	10000.000145000.000		0.000	36.000	
CASE NUMBER	480				36.000	2
	.4032	15000.000145000.000		0.000	36.000	

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER				GROUP NUMBER	
	481	.4091	16000.000145000.000	0.000	36.000	2
	482	.4152	17000.000145000.000	0.000	36.000	2
	483	.4216	18000.000145000.000	0.000	36.000	2
	484	.4281	19000.000145000.000	0.000	36.000	2
	485	.4351	20000.000145000.000	0.000	36.000	2
	486	.2542	0.000 70000.000	100.000	36.000	2
	487	.2690	5000.000 70000.000	100.000	36.000	2
	488	.2848	10000.000 70000.000	100.000	36.000	2
	489	.3036	15000.000 70000.000	100.000	36.000	2
	490	.3241	20000.000 70000.000	100.000	36.000	2
	491	.3464	25000.000 70000.000	100.000	36.000	2
	492	.3727	30000.000 70000.000	100.000	36.000	2
	493	.4046	35000.000 70000.000	100.000	36.000	2
	494	.4104	36000.000 70000.000	100.000	36.000	2
	495	.4166	37000.000 70000.000	100.000	36.000	2
	496	.4232	38000.000 70000.000	100.000	36.000	2

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER				GROUP NUMBER	
	497	.2623	0.000 90000.000	100.000	36.000	2
	498	.2795	5000.000 90000.000	100.000	36.000	2
	499	.2983	10000.000 90000.000	100.000	36.000	2
	500	.3197	15000.000 90000.000	100.000	36.000	2
	501	.3423	20000.000 90000.000	100.000	36.000	2
	502	.3687	25000.000 90000.000	100.000	36.000	2
	503	.4006	30000.000 90000.000	100.000	36.000	2
	504	.4078	31000.000 90000.000	100.000	36.000	2
	505	.4152	32000.000 90000.000	100.000	36.000	2
	506	.2667	0.000100000.000	100.000	36.000	2
	507	.2846	5000.000100000.000	100.000	36.000	2
	508	.3053	10000.000100000.000	100.000	36.000	2
	509	.3274	15000.000100000.000	100.000	36.000	2
	510	.3515	20000.000100000.000	100.000	36.000	2
	511	.3802	25000.000100000.000	100.000	36.000	2
	512	.3865	26000.000100000.000	100.000	36.000	2

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT CASE NUMBER	513 .3931 27000.000100000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	514 .4000 28000.000100000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	515 .2754 0.000120000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	516 .2953 5000.000120000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	517 .3191 10000.000120000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	518 .3429 15000.000120000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	519 .3704 20000.000120000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	520 .3764 21000.000120000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	521 .3826 22000.000120000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	522 .3891 23000.000120000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	523 .2868 0.000145000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	524 .3096 5000.000145000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	525 .3356 10000.000145000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	526 .3629 15000.000145000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	527 .3688 16000.000145000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	528 .2363 0.000 70000.000	200.000	36.000	GROUP NUMBER	2

FRIDAY, JUL 2, 1976

DATA INPUT CASE NUMBER	529 .2471 5000.000 70000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	530 .2622 10000.000 70000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	531 .2788 15000.000 70000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	532 .2973 20000.000 70000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	533 .3187 25000.000 70000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	534 .3438 30000.000 70000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	535 .3733 35000.000 70000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	536 .3787 36000.000 70000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	537 .2439 0.000 90000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	538 .2572 5000.000 90000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	539 .2743 10000.000 90000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	540 .2939 15000.000 90000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	541 .3165 20000.000 90000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	542 .3410 25000.000 90000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	543 .3464 26000.000 90000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	544 .3519 27000.000 90000.000	200.000	36.000	GROUP NUMBER	2

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT CASE NUMBER					GROUP NUMBER	
CASE NUMBER	545	.3577	28000.000	90000.000	200.000	36.000
CASE NUMBER	546	.3638	29000.000	90000.000	200.000	36.000
CASE NUMBER	547	.2479	0.000100000	0.000	200.000	36.000
CASE NUMBER	548	.2625	5000.000100000	0.000	200.000	36.000
CASE NUMBER	549	.2809	10000.000100000	0.000	200.000	36.000
CASE NUMBER	550	.3018	15000.000100000	0.000	200.000	36.000
CASE NUMBER	551	.3254	20000.000100000	0.000	200.000	36.000
CASE NUMBER	552	.3517	25000.000100000	0.000	200.000	36.000
CASE NUMBER	553	.3575	26000.000100000	0.000	200.000	36.000
CASE NUMBER	554	.2564	0.000120000	0.000	200.000	36.000
CASE NUMBER	555	.2736	5000.000120000	0.000	200.000	36.000
CASE NUMBER	556	.2943	10000.000120000	0.000	200.000	36.000
CASE NUMBER	557	.3178	15000.000120000	0.000	200.000	36.000
CASE NUMBER	558	.3227	16000.000120000	0.000	200.000	36.000
CASE NUMBER	559	.3278	17000.000120000	0.000	200.000	36.000
CASE NUMBER	560	.3328	18000.000120000	0.000	200.000	36.000

FRIDAY, JUL 2, 1976

DATA INPUT CASE NUMBER					GROUP NUMBER	
CASE NUMBER	561	.3379	19000.000120000	0.000	200.000	36.000
CASE NUMBER	562	.3432	20000.000120000	0.000	200.000	36.000
CASE NUMBER	563	.2875	0.000145000	0.000	200.000	36.000
CASE NUMBER	564	.2875	5000.000145000	0.000	200.000	36.000
CASE NUMBER	565	.3115	10000.000145000	0.000	200.000	36.000
CASE NUMBER	566	.3162	11000.000145000	0.000	200.000	36.000
CASE NUMBER	567	.3211	12000.000145000	0.000	200.000	36.000
CASE NUMBER	568	.3260	13000.000145000	0.000	200.000	36.000
CASE NUMBER	569	.3156	0.000 70000.000	-50.000	-18.000	GROUP NUMBER 1
CASE NUMBER	570	.3465	5416.667 70000.000	-50.000	-18.000	GROUP NUMBER 1
CASE NUMBER	571	.3750	10357.143 70000.000	-50.000	-18.000	GROUP NUMBER 1
CASE NUMBER	572	.3965	15000.000 70000.000	-50.000	-18.000	GROUP NUMBER 1
CASE NUMBER	573	.4116	20000.000 70000.000	-50.000	-18.000	GROUP NUMBER 1
CASE NUMBER	574	.4374	25000.000 70000.000	-50.000	-18.000	GROUP NUMBER 1
CASE NUMBER	575	.4734	30000.000 70000.000	-50.000	-18.000	GROUP NUMBER 1
CASE NUMBER	576	.5211	35000.000 70000.000	-50.000	-18.000	GROUP NUMBER 1

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	577	.5474 40000.000 70000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	578	.5496 41000.000 70000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	579	.5502 42000.000 70000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	580	.5505 43000.000 70000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	581	.5543 44000.000 70000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	582	.5598 45000.000 70000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	583	.3165 0.000 90000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	584	.3504 5000.000 90000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	585	.3818 10000.000 90000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	586	.4050 15000.000 90000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	587	.4356 20000.000 90000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	588	.4701 25000.000 90000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	589	.5100 30000.000 90000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	590	.5482 35000.000 90000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	591	.5495 36000.000 90000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	592	.5500 37000.000 90000.000	-50.000	-18.000	GROUP NUMBER	1

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	593	.5507 38000.000 90000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	594	.5555 39000.000 90000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	595	.5611 40000.000 90000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	596	.3200 0.000100000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	597	.3545 5000.000100000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	598	.3882 10000.000100000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	599	.4170 15000.000100000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	600	.4427 20000.000100000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	601	.4808 25000.000100000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	602	.5217 30000.000100000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	603	.5500 35000.000100000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	604	.5509 36000.000100000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	605	.5566 37000.000100000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	606	.5629 38000.000100000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	607	.3346 0.000120000.000	-50.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	608	.3707 5000.000120000.000	-50.000	-18.000	GROUP NUMBER	1

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER				GROUP NUMBER		
	609					1	
CASE NUMBER	.4078	10000.000120000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	610	.4378	15000.000120000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	611	.4672	20000.000120000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	612	.5026	25000.000120000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	613	.5488	30000.000120000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	614	.5489	31000.000120000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	615	.5507	32000.000120000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	616	.5547	33000.000120000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	617	.5608	34000.000120000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	618	.3455	0.000145000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	619	.3857	5000.000145000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	620	.4254	10000.000145000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	621	.4555	14523.810145000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	622	.4925	20000.000145000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	623	.5342	25000.000145000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	624	.5438	26000.000145000.000	-50.000	-18.000	GROUP NUMBER	1

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER				GROUP NUMBER		
	625					1	
CASE NUMBER	.5494	27000.000145000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	626	.5501	28000.000145000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	627	.2925	0.000 70000.000	0.000	-18.000	GROUP NUMBER	1
CASE NUMBER	628	.3190	5000.000 70000.000	0.000	-18.000	GROUP NUMBER	1
CASE NUMBER	629	.3473	10000.000 70000.000	0.000	-18.000	GROUP NUMBER	1
CASE NUMBER	630	.3665	14464.286 70000.000	0.000	-18.000	GROUP NUMBER	1
CASE NUMBER	631	.3885	20000.000 70000.000	0.000	-18.000	GROUP NUMBER	1
CASE NUMBER	632	.4140	25238.095 70000.000	0.000	-18.000	GROUP NUMBER	1
CASE NUMBER	633	.4415	30000.000 70000.000	0.000	-18.000	GROUP NUMBER	1
CASE NUMBER	634	.4721	35000.000 70000.000	0.000	-18.000	GROUP NUMBER	1
CASE NUMBER	635	.5066	40000.000 70000.000	0.000	-18.000	GROUP NUMBER	1
CASE NUMBER	636	.5159	41000.000 70000.000	0.000	-18.000	GROUP NUMBER	1
CASE NUMBER	637	.5240	42000.000 70000.000	0.000	-18.000	GROUP NUMBER	1
CASE NUMBER	638	.5315	43000.000 70000.000	0.000	-18.000	GROUP NUMBER	1
CASE NUMBER	639	.5385	44000.000 70000.000	0.000	-18.000	GROUP NUMBER	1
CASE NUMBER	640	.3005	0.000 90000.000	0.000	-18.000	GROUP NUMBER	1

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	641			GROUP NUMBER	1
	CASE NUMBER	642	.3310 5000.000 90000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	643	.3601 10000.000 90000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	644	.3867 15000.000 90000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	645	.4112 20000.000 90000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	646	.4354 25000.000 90000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	647	.4665 30000.000 90000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	648	.5086 35000.000 90000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	649	.5182 36000.000 90000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	650	.5259 37000.000 90000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	651	.5328 38000.000 90000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	652	.5402 39000.000 90000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	653	.3082 0.000100000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	654	.3393 5000.000100000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	655	.3699 10000.000100000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	656	.3959 15000.000100000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	657	.4176 20000.000100000.000	0.000	-18.000	GROUP NUMBER 1

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	657			GROUP NUMBER	1
	CASE NUMBER	658	.4460 25000.000100000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	659	.4797 30000.000100000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	660	.5273 35000.000100000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	661	.5343 36000.000100000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	662	.3172 0.000120000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	663	.3511 5000.000120000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	664	.3832 10000.000120000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	665	.4074 15000.000120000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	666	.4343 20000.000120000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	667	.4667 25000.000120000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	668	.5107 30000.000120000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	669	.5196 31000.000120000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	670	.5286 32000.000120000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	671	.3270 0.000145000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	672	.3621 5000.000145000.000	0.000	-18.000	GROUP NUMBER 1
	CASE NUMBER	6975	.3975 10000.000145000.000	0.000	-18.000	GROUP NUMBER 1

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	673	.4247 15000.000145000.000	0.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	674	.4562 20000.000145000.000	0.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	675	.4940 25000.000145000.000	0.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	676	.5029 26000.000145000.000	0.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	677	.2648 0.000 70000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	678	.2898 5000.000 70000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	679	.3133 10000.000 70000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	680	.3333 15000.000 70000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	681	.3508 20000.000 70000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	682	.3722 25000.000 70000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	683	.3964 30000.000 70000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	684	.4242 35000.000 70000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	685	.4510 40000.000 70000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	686	.4574 41000.000 70000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	687	.2750 0.000 90000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	688	.3019 5000.000 90000.000	100.000	-18.000	GROUP NUMBER	1

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	689	.3259 10000.000 90000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	690	.3449 15000.000 90000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	691	.3667 20000.000 90000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	692	.3915 25000.000 90000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	693	.4201 30000.000 90000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	694	.4525 35000.000 90000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	695	.4589 36000.000 90000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	696	.2783 0.000100000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	697	.3054 5000.000100000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	698	.3312 10000.000100000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	699	.3517 15000.000100000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	700	.3749 20000.000100000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	701	.4014 25000.000100000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	702	.4317 30000.000100000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	703	.4380 31000.000100000.000	100.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	704	.4446 32000.000100000.000	100.000	-18.000	GROUP NUMBER	1

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT					GROUP NUMBER	
CASE NUMBER	705	.4517 33000.000100000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	706	.2865 0.000120000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	707	.3150 5000.000120000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	708	.3425 10000.000120000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	709	.3654 15000.000120000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	710	.3914 20000.000120000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	711	.4209 25000.000120000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	712	.4274 26000.000120000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	713	.4339 27000.000120000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	714	.4405 28000.000120000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	715	.2987 0.000145000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	716	.3299 5000.000145000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	717	.3571 10000.000145000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	718	.3831 15000.000145000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	719	.4118 20000.000145000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	720	.4178 21000.000145000.000	100.000	-18.000	GROUP NUMBER	1

FRIDAY, JUL 2, 1976

DATA INPUT					GROUP NUMBER	
CASE NUMBER	721	.4240 22000.000145000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	722	.4307 23000.000145000.000	100.000	-18.000	GROUP NUMBER	1
CASE NUMBER	723	.2515 0.000 70000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	724	.2724 5000.000 70000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	725	.2867 10000.000 70000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	726	.3021 15000.000 70000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	727	.3212 20000.000 70000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	728	.3417 25000.000 70000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	729	.3645 30000.000 70000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	730	.3915 35000.000 70000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	731	.3965 36000.000 70000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	732	.4015 37000.000 70000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	733	.4069 38000.000 70000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	734	.4125 39000.000 70000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	735	.4184 40000.000 70000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	736	.2572 0.000 90000.000	200.000	-18.000	GROUP NUMBER	1

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	737	.2799 5000.000 90000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	738	.2977 10000.000 90000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	739	.3163 15000.000 90000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	740	.3372 20000.000 90000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	741	.3606 25000.000 90000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	742	.3880 30000.000 90000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	743	.3940 31000.000 90000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	744	.4002 32000.000 90000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	745	.4066 33000.000 90000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	746	.4131 34000.000 90000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	747	.2604 0.000100000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	748	.2838 5000.000100000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	749	.3036 10000.000100000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	750	.3233 15000.000100000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	751	.3451 20000.000100000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	752	.3704 25000.000100000.000	200.000	-18.000	GROUP NUMBER	1

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	753	.3998 30000.000100000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	754	.4062 31000.000100000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	755	.2669 0.000120000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	756	.2922 5000.000120000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	757	.3157 10000.000120000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	758	.3369 15000.000120000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	759	.3613 20000.000120000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	760	.3897 25000.000120000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	761	.3858 26000.000120000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	762	.2765 0.000145000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	763	.3034 5000.000145000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	764	.3299 10000.000145000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	765	.3538 15000.000145000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	766	.3595 16000.000145000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	767	.3647 17000.000145000.000	200.000	-18.000	GROUP NUMBER	1
	CASE NUMBER	768	.3701 18000.000145000.000	200.000	-18.000	GROUP NUMBER	1

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT CASE NUMBER	769	GROUP NUMBER	1
	.3757 19000.000145000.000	200.000	-18.000
CASE NUMBER	770	GROUP NUMBER	1
	.3814 20000.000145000.000	200.000	-18.000

FRIDAY, JUL 2, 1976

VARIABLE MEANS FOR EACH GROUP

GROUP NO. 1

(X(7) .3426446E+01) (X(19) .1571350E+03) (DC .5673317E+02) (X(18) .6945226E+02) (X(6) .1317380E+01) (X(16) .1138398E+01)
(X(26)-.1202251E+02) (X(10) .1227600E+04) (X(8) .3219179E+00) (X(27)-.3178597E+02) (X(11) .1240025E+05) (X(23) .3744072E+05)
(X(13)-.2937815E+04) (X(28)-.2916512E+01) (X(25) .1536565E+08) (X(20) .1825670E+02) (X(14) .4291789E+00) (X(30)-.3895293E+04)
(DT-.9067332E+01) (X(15) .3431590E+04) (X(43)-.1409095E+04) (X(21) .7052837E+05) (X(47)-.3534528E+06) (X(31)-.1029865E+05)
(X(42)-.6195607E+03) (X(46)-.1441665E+06) (X(36)-.1643431E+06) (MACH .4055491E+00)

GROUP NO. 2

(X(7) .2947945E+01) (X(19) .1285165E+03) (DC .5487805E+02) (X(18) .6271224E+02) (X(6) .1244699E+01) (X(16) .9780265E+00)
(X(26) .3326571E+02) (X(10) .1242563E+04) (X(8) .3209833E+00) (X(27) .7839730E+02) (X(11) .1187669E+05) (X(23) .2995849E+05)
(X(13) .2585678E+05) (X(28) .8619331E+01) (X(25) .1442844E+08) (X(20) .1771076E+02) (X(14) .4043889E+00) (X(30) .3189213E+05)
(DT .2682927E+02) (X(15) .2961932E+04) (X(43) .3384588E+04) (X(21) .6526506E+05) (X(47) .7921608E+06) (X(31) .7465061E+05)
(X(42) .1674125E+04) (X(46) .3724962E+06) (X(36) .1426390E+07) (MACH .3799314E+00)

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF MEANS (TOTAL)

VARIABLE	MEAN
X(7)	.3197138E+01
X(19)	.1434204E+03
DC	.5584416E+02
X(18)	.6622230E+02
X(6)	.1282550E+01
X(16)	.1061545E+01
X(26)	.9680547E+01
X(10)	.1234771E+04
X(8)	.3214700E+00
X(27)	.2101615E+02
X(11)	.1214935E+05
X(23)	.3385508E+05
X(13)	.1086115E+05
X(28)	.2611704E+01
X(25)	.1481652E+08
X(20)	.1799508E+02
X(14)	.4172996E+00
X(30)	.1325478E+05
DT	.8135065E+01
X(15)	.3206520E+04
X(43)	.8881371E+03
X(21)	.6800608E+05
X(47)	.1955490E+06
X(31)	.3041080E+05
X(42)	.4796213E+03
X(46)	.1034290E+06
X(36)	.5979694E+06
MACH	.3932726E+00

FRIDAY, JUL 2, 1976

CORRELATION MATRIX
FOR TOTAL.

	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	.1000000E+01	.1480984E+00	-.1481202E+00	.3913292E-01	.8955821E+00	.9881686E+00	.2742821E-01	-.3294092E+00
X(19)	.1480984E+00	.1000000E+01	.7415936E+00	.9341646E+00	.1936931E+00	.1640E56E+00	-.1018930E-01	-.1317796E+00
DC	-.1481202E+00	-.7415936E+00	-.1000000E+01	-.8853786E+00	-.9828506E-01	-.1307539E+00	-.2279256E-01	-.1105941E-01
X(18)	.3913292E-01	.9341646E+00	.8853786E+00	.1000000E+01	.1334999E+00	.5067538E-01	-.1054992E-02	-.6994595E-01
X(6)	.8955821E+00	.1936931E+00	-.9828506E-01	.1334999E+00	.1000000E+01	.8598355E+00	.9328349E-01	-.2206900E+00
X(16)	.9881686E+00	.1640E56E+00	-.1307539E+00	.5067528E-01	.8598355E+00	.1000000E+01	.3105791E-01	-.4111000E+00
X(26)	.2742821E-01	-.1018930E-01	-.2279256E-01	-.1054992E-02	.9328349E-01	.3105791E-01	.1000000E+01	-.3869819E-01
X(10)	-.3294092E+00	-.1317796E+00	-.1105941E-01	-.6994595E-01	-.2206900E+00	-.4111000E+00	-.3869819E-01	.1000000E+01
X(8)	.3439639E+00	.1405634E+00	.1146394E-01	.7143674E-01	-.2219569E+00	.4484078E+00	.3294895E-01	-.9247761E+00
X(27)	.9582959E+00	-.4549074E-02	-.3728851E-01	-.1021251E-01	-.1284270E+00	.1019863E+00	.9400533E+01	-.7634951E-01
X(11)	-.12905592E+00	.6468771E+00	.90901075E+00	.7924525E+00	-.8832445E-01	-.1141613E+00	-.3252292E-01	-.6094733E-02
X(23)	.3183151E+00	.8838874E+00	.6293879E+00	.8238306E+00	-.3341647E+00	-.3294642E+00	-.2559000E-01	-.1727644E+00
X(13)	-.8528584E-01	-.3657701E-01	-.4444767E-02	-.2087948E-01	-.5218818E-01	-.7635770E-01	.7872602E+01	-.5677992E-02
X(28)	-.8354107E-01	-.3103696E-01	-.4369217E-02	-.1774361E-01	-.5399218E-01	-.7133782E-01	.9052939E+01	-.4479659E-01
X(25)	-.2317805E+00	.3161413E+00	.6632566E+00	.5048309E+00	.1644912E+00	-.2488599E+00	-.4497503E+01	.4148643E+00
X(20)	-.1219984E+00	.7708620E+00	.9900639E+00	.8928768E+00	.8035901E-01	-.9928599E-01	-.1856318E-01	-.7624777E-01
X(14)	.9173184E+00	.2189173E+00	-.8447237E-01	.1424480E+00	.8657840E+00	.9185787E+00	.9354918E-01	-.4151484E+00
X(30)	.9623668E-01	.7751982E-03	-.2866290E-01	.6062744E-02	.1584360E+00	.9842036E-01	.8825721E+00	-.5776039E-01
DT	-.9973136E-01	-.378618E-01	-.5931092E-02	-.2232605E-01	-.6557288E-01	-.9124090E-01	-.8997869E+00	-.8336950E-03
X(15)	.4848458E+00	-.3159327E-01	-.1693866E+00	-.5618695E-01	.5813097E+00	.3577079E+00	-.1920303E+01	.4625856E+00
X(43)	.2053649E+02	.1817560E+00	.1955990E+00	.2185785E+00	.3206213E-01	.9630069E-02	.3822347E+00	-.5522201E-01
X(21)	-.2191853E+00	.4062776E+00	.7625072E+00	.6013149E+00	-.1568262E+00	-.2247616E+00	-.4114109E+01	.3154028E+00
X(47)	.7620306E+02	.1242115E+00	.1471377E+00	.1642355E+00	.4474538E-01	.1313651E-01	.5550746E+00	-.5298377E-01
X(31)	.2117256E+00	.7171679E-02	-.5475717E-01	-.1002716E-01	.2236060E+00	.2173335E+00	.8282974E+00	-.1150480E+00
X(42)	-.3280845E-01	-.1930899E+00	.2638462E+00	.2655262E+00	.1257994E-01	-.2524602E-01	.4271604E+00	-.4048974E-01
X(46)	-.3398059E-01	.1387700E+00	.2112515E+00	.2097699E+00	.2021047E-01	-.2856147E-01	.5683933E+00	-.3376807E-01
X(36)	-.1023077E+00	.2370577E+00	.4130256E+00	.3328819E+00	-.7374628E-01	-.8150708E-01	.3202030E+00	-.1097906E-01
MACH	.8121824E+00	-.3017087E+00	-.5874965E+00	-.4169496E+00	.7716204E+00	.7526158E+00	-.5748248E-01	.7503011E-02

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(8)	X(27)	X(11)	X(23)	X(13)	X(28)	X(25)	X(20)
X(7)	.3439639E+00	.9582955E-01	-.1290592E+00	.3183151E+00	-.8528584E-01	-.8354107E-01	-.2317805E+00	-.1219584E+00
X(19)	.1405634E+00	-.4549074E-02	.6468771E+00	.8838874E+00	-.3657701E-01	-.3103696E-01	.3161413E+00	.7708620E+00
DC	.1146394E-01	-.3728851E-01	.9090107E+00	.6293879E+00	-.4444767E-02	-.4369217E-02	.6632666E+00	.9900639E+00
X(18)	.7143674E-01	-.1021251E-01	.7924525E+00	.8238306E+00	-.2087948E-01	-.1774361E-01	.5048309E+00	.8928768E+00
X(6)	.2219569E+00	.1284270E+00	-.8832445E-01	.3341647E+00	-.5818818E-01	-.5399218E-01	-.1644912E+00	-.8035901E-01
X(16)	.4484078E+00	.1019863E+00	-.1141613E+00	.3294642E+00	-.7535770E-01	-.7133782E-01	-.2488599E+00	-.9528599E-01
X(26)	.3294895E-01	.9400533E+00	.3252292E-01	.2559000E-01	.7872602E+00	.9052939E+00	-.4437503E-01	.1896318E-01
X(10)	-.9247776E+00	-.7634951E-01	.6094733E-02	-.1727644E+00	-.5677992E-02	-.4479659E-01	.4148643E+00	.7624777E-01
X(8)	.1000000E+01	.7486227E-01	.7439575E-02	.18428671E-02	.4248671E-02	.4355972E-01	-.3833942E+00	.8243044E-01
X(27)	.7486227E-01	.1000000E+01	.4790406E-01	-.1278360E-01	.6604383E+00	.7906906E+00	-.6490964E-01	.3123194E-01
X(11)	.7439575E-02	-.4790406E-01	.1000000E+01	.6901062E+00	-.7348666E-02	.1403004E-01	.7310381E+00	.9000077E+00
X(23)	.1841642E+00	-.1278360E-01	.6901062E+00	.1000000E+01	-.5750569E-01	.6061437E-01	.3180115E+00	.66110304E+00
X(13)	.2428671E-02	.5604383E+00	-.7348666E-02	-.5750569E-01	.1000000E+01	.8774309E+00	-.6682857E-02	-.4444337E-02
X(28)	.4355972E-01	.7906906E+00	-.1403004E-01	.6061437E-01	.8774309E+00	.1000000E+01	-.3158351E-01	.6945312E-03
X(25)	-.3833942E+00	.6490964E-01	.7310381E+00	.3180115E+00	.6682857E-02	.3158351E-01	.1000000E+01	.5742277E+00
X(20)	.8243044E-01	-.3123194E-01	.9000077E+00	.66110304E+00	.4444337E-02	.6945312E-03	.5742277E+00	.1000000E+01
X(14)	.4440335E+00	.1387982E+00	-.7582608E-01	.3596872E+00	.5084143E-01	.3872798E-01	-.2314684E+00	.5145400E-01
X(30)	.5427870E-01	.8206244E+00	-.3144236E-01	.4050198E-02	.8864022E+00	.7965167E+00	-.4659599E-01	.2423516E-01
DT	-.4403576E-02	.7672831E+00	-.1432664E-01	.6750565E-01	.8841897E+00	.9914249E+00	-.1623633E-01	-.5237786E-02
X(15)	-.4728663E+00	-.3124121E-02	-.1446265E+00	.6922802E-01	.9584494E-01	-.1140996E+00	.3845761E-01	-.1882485E+00
X(43)	.4844910E-01	.3439819E+00	.1557162E+00	.1279894E+00	.2890517E+00	.3553495E+00	.6545466E-01	.2028198E+00
X(21)	-.2924691E+00	-.5853250E-01	.6940357E+00	.3159895E+00	.7892517E-02	-.2515182E-01	.9168494E+00	.6707952E+00
X(47)	.4336256E-01	.5382307E+00	.1531267E+00	.1207449E+00	.4055466E+00	.4951666E+00	.6139087E-01	.1534203E+00
X(31)	.1168786E+00	.8779670E+00	-.5742841E-01	.2665911E-01	.7433449E+00	.6905256E+00	-.8413093E-01	.4650222E-01
X(42)	.2937773E-01	.3370820E+00	.2260538E+00	.1434794E+00	.3661237E+00	.4248269E+00	.1325700E+00	.2654038E+00
X(46)	.2055553E-01	.4805520E+00	.2264688E+00	.1365559E+00	.4728207E+00	.5462698E+00	.1324018E+00	.2126080E+00
X(36)	.4520082E-02	.2180839E+00	.3761232E+00	.1864229E+00	.4571587E+00	.4014198E+00	.2745154E+00	.4074261E+00
MACH	-.1360843E-01	.5569607E-02	-.4980879E+00	-.8544741E-01	-.1589832E+00	-.1763325E+00	-.3657640E+00	-.5803978E+00

FRIDAY, JUL 2, 1976

	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(7)	.9173184E+00	.9623658E-01	-.9973136E-01	.48448458E+00	.2053649E-02	-.2191853E+00	.7620306E-02	.2117256E+00
X(19)	.2189178E+00	.7751982E-03	-.3786118E-01	.3159327E-01	.1817560E+00	.4062776E+00	.1242115E+00	.7171679E-02
DC	-.8447237E-01	-.2866290E-01	-.5931092E-02	-.1693866E+00	.1955990E+00	.7625072E+00	.1471377E+00	-.5476717E-01
X(18)	.1424490E+00	.60627244E-02	-.2232605E-01	.56118695E-01	.2185785E+00	.6013149E+00	.1642355E+00	-.1002716E-01
X(6)	.9657840E+00	.1584360E+00	-.6557288E-01	.58113097E+00	.3206213E-01	.1568262E+00	.4474538E-01	.2235060E+00
X(16)	.9185787E+00	.9842036E-01	-.9124090E-01	.3577079E+00	.9630069E-02	.2247616E+00	.1312651E-01	.2173335E+00
X(26)	.9354918E-01	.8825721E+00	-.8997886E+00	-.1920303E-01	.3822347E+00	.4114109E-01	.5550746E+00	.8282974E+00
X(10)	-.4151484E+00	-.5776039E-01	-.8336950E-03	.4625856E+00	-.5522201E-01	.3154028E+00	-.5298377E-01	-.1150480E+00
X(8)	-.4440335E+00	.5427870E-01	-.4403576E-02	.4728663E+00	-.4849494E-01	.4336256E-01	-.1169788E+00	
X(27)	.1387982E+00	.8206244E+00	-.7672831E+00	-.3124121E-02	.3439819E+00	.5853250E-01	.5382307E+00	.8779367E+00
X(11)	-.7582608E-01	-.3144236E-01	-.1432664E-01	-.1446265E+00	.1557162E+00	.6942280E+00	.1531267E+00	-.5742841E-01
X(23)	.3596872E+00	.4050198E-02	-.6750658E-01	.6922802E-01	.1279894E+00	.3159895E+00	.1207449E+00	.2665911E-01
X(13)	.5084143E-01	.1884022E+00	-.8841897E+00	-.9564494E-01	.2890517E+00	.7892517E-02	.4055466E+00	.7433449E+00
X(28)	-.3872798E-01	.7965167E+00	-.9914249E+00	-.1140996E+00	.3553495E+00	.2515182E-01	.4951666E+00	.6905256E+00
X(25)	-.2314684E+00	-.4655959E-01	-.1623633E-01	.3845761E-01	.6545466E-01	.9168494E+00	.6139087E-01	-.8413093E-01
X(20)	-.5145400E-01	-.2432516E-01	-.5237786E-02	-.1882485E+00	.6707952E+00	.1534203E+00	-.4650222E-01	
X(14)	-.1000000E+01	.1589805E+00	-.5991329E-01	.3814952E+00	.4307316E-01	.2019692E+00	.5248852E-01	.2383397E+00
X(30)	-.1589805E+00	.1000000E+01	.7895292E+00	-.1869528E-01	.3259066E+00	-.4525322E-01	.4720277E+00	.9340484E+00
DT	-.5991329E-01	.7895292E+00	-.1000000E+01	-.1000000E+01	-.5366118E-01	-.4039773E-01	-.4172974E-01	.4915358E-01
X(15)	-.38149528E+00	-.1000661E+00	-.1000000E+01	-.1000000E+01	-.5366118E-01	-.4039773E-01	-.4172974E-01	.4915358E-01
X(43)	-.4307316E-01	.3259066E+00	.3406114E+00	.5366118E-01	.1000000E+01	.9692837E-01	.8910296E+00	.2900039E+00
X(21)	-.2019692E+00	-.4525322E-01	-.1447263E-01	-.4039773E-01	-.9692837E-01	-.1000000E+01	.6465250E-01	-.7881104E-01
X(47)	-.5248852E-01	.4720277E+00	.4786435E+00	-.4172974E-01	.8910296E+00	.5465250E+00	.1000000E+01	.4524984E+00
X(31)	.2383397E+00	.9344084E+00	.6662837E+00	.49115058E-01	.2900039E+00	.7881104E-01	.4524984E+00	.1000000E+01
X(42)	.1983689E+01	.3717351E+00	.4199177E+00	-.7262145E-01	.9369673E+00	.1679553E+00	.8546321E+00	.2861898E+00
X(46)	.2355640E-01	.4944712E+00	.5424240E+00	-.6168166E-01	.8358973E+00	.1299555E+00	.9354202E+00	.4086038E+00
X(36)	-.6407210E-01	.3588906E+00	.4041628E+00	-.1163737E+00	.6570434E+00	.3130844E+00	.6018719E+00	.2387859E+00
MACH	.7027022E+00	.7210529E-02	-.1762167E+00	.6930534E+00	-.1420289E+00	-.4528083E+00	-.1118815E+00	.1052065E+00

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(42)	X(46)	X(36)	MACH
X(7)	- .3280845E+01	- .3398059E-01	- .1023077E+00	.8121824E+00
X(19)	.1930899E+00	.1387700E+00	.2370577E+00	- .3017087E+00
DC	.2638462E+00	.2112515E+00	.4130256E+00	.5874965E+00
X(18)	.2655252E+00	.2097599E+00	.332819E+00	- .4169496E+00
X(6)	.1257994E-01	.2021047E-01	.7374628E-01	.7716204E+00
X(16)	- .2524602E+01	- .2856147E+01	.9150708E-01	.7526158E+00
X(25)	.4271604E+00	.5683933E+00	.3202090E+00	- .5748248E-01
X(10)	- .4048974E+01	- .3376807E-01	.1097906E-01	.7503011E-02
X(8)	.2937773E+01	.2055553E+01	.4520082E-02	- .1360843E-01
X(27)	.3370820E+00	.4805520E+00	.2180839E+00	.5569607E-02
X(11)	.2260532E+00	.2264688E+00	.3761232E+00	- .4980879E+00
X(23)	.1434794E+00	.1365559E+00	.1864229E+00	- .8544741E-01
X(13)	.3661237E+00	.4728207E+00	.4571587E+00	- .1589843E+00
X(28)	.4248269E+00	.5462598E+00	.4014198E+00	- .1763225E+00
X(25)	.1325700E+00	.1324018E+00	.2745154E+00	.3657564E+00
X(20)	.2654038E+00	.2125680E+00	.4074261E+00	- .5803978E+00
X(14)	.1983689E+01	.2355640E+01	- .6407210E-01	.7027022E+00
X(30)	.3717351E+00	.4944712E+00	.3588906E+00	.7210529E-02
DT	.4199177E+00	.5424240E+00	.4041628E+00	- .1762167E+00
X(15)	.7252145E+01	.6168166E+01	- .1163737E+00	.6930534E+00
X(43)	.9369673E+00	.8358973E+00	.6570434E+00	- .1420289E+00
X(21)	.1679553E+00	.1299555E+00	.3130844E+00	- .4528083E+00
X(47)	.8546321E+00	.9354202E+00	.6018719E+00	- .1118815E+00
X(31)	.2861898E+00	.4086038E+00	.2387869E+00	.1052065E+00
X(42)	.1000000E+01	.9149255E+00	.7965757E+00	- .1881790E+00
X(46)	.9149255E+00	.1000000E+01	.7353229E+00	- .1707209E+00
X(36)	.7965757E+00	.7353229E+00	.1000000E+01	- .3084184E+00
MACH	- .1981790E+00	- .1707209E+00	- .3084184E+00	.1000000E+01

FRIDAY, JUL 2, 1976

CORRELATION MATRIX
FOR ERROR.

	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	.1000000E+01	.1451411E+00	- .1497504E+00	.3686948E-01	.8954186E+00	.9880878E+00	.1762546E+00	- .3301450E+00
X(19)	.1451411E+00	.1000000E+01	.7418126E+00	.9341838E+00	.1917519E+00	.1613512E+00	.3554338E-01	- .1315610E+00
DC	- .1497504E+00	.7418126E+00	.1000000E+01	.8854603E+00	- .1001100E+00	- .1321590E+00	- .2512986E-01	- .1093947E-01
X(18)	.3686948E-01	.9341838E+00	.8854603E+00	.1000000E+01	.1321902E+00	.4860637E-01	.3269667E-01	- .6975954E-01
X(6)	.8954186E+00	.1917519E+00	- .1001100E+00	.1321902E+00	.1000000E+01	.8593278E+00	.2428755E+00	- .2206161E+00
X(16)	.9880878E+00	.1613512E+00	- .1321590E+00	.4860637E-01	.8593278E+00	.1000000E+01	.1734521E+00	- .4120200E+00
X(25)	.1762546E+00	.3554328E-01	- .2512986E-01	.3269667E-01	.2428755E+00	.1734521E+00	.1000000E+01	- .7621536E-01
X(10)	- .3301450E+00	.1315610E+00	- .1093947E-01	.6975954E-01	.2206161E+00	- .4120200E+00	- .7621536E-01	.1000000E+01
X(8)	.3444252E+00	.1402172E+00	- .1093947E-01	.7116201E-01	.2216660E+00	.4491739E+00	.7139347E+01	- .9247746E+00
X(27)	.2218910E+00	.3026692E-01	- .4194226E-01	.9885258E+00	.2241105E+00	.8997274E+00	.1123154E+00	
X(11)	- .1312995E+00	.6468027E+00	.9090188E+00	.7923292E+00	- .8558470E-01	- .1161497E+00	.3185123E+01	- .5955834E-02
X(23)	.3143169E+00	.8838644E+00	.6300668E+00	.8241383E+00	.3314764E+00	.3257573E+00	.4268394E+01	- .1725921E+00
X(13)	- .2467042E-01	.1266134E-01	.3513321E-02	- .3932784E-02	- .1873731E-01	- .1851105E-01	.5175161E+00	- .1640618E-01
X(28)	.2787399E-02	.7495948E-02	.9179753E-02	.1044730E-01	.4690019E-02	.1670576E-01	.7004569E+00	- .1121886E+00
X(25)	- .2346184E+00	.3157320E+00	.66332300E+00	.5046182E+00	.1659917E+00	- .2515093E+00	.5132155E-01	.4150944E+00
X(20)	- .1234170E+00	.7711339E+00	.89006335E+00	.8929771E+00	- .8108574E-01	- .1004801E+00	.1933722E-01	- .7618015E-01
X(14)	.9174169E+00	.2171230E+00	- .8522185E-01	.1412103E+00	.95656567E+00	.9185232E+00	.2392475E+01	- .4154214E+00
X(30)	.2039655E+00	.3299718E-01	- .2907249E-01	.2877903E-01	.2574390E+00	.2013209E+00	.8104973E+00	- .8149956E-01
DT	- .3159018E-01	.- .67355829E-02	.- .6210086E-02	.- .1078447E-02	.- .1983314E-01	.- .2558005E-01	.- .6800943E+00	.- .1837622E-01
X(15)	.4807623E+00	.- .3457184E-01	.- .1707910E+00	.- .5852302E-01	.- .5792072E+00	.- .3529249E+00	.- .7994350E-01	.- .4648888E+00
X(42)	.3298928E-01	.- .2024877E+00	.- .2085173E+00	.- .2377637E+00	.- .5408944E-01	.- .2886499E-01	.- .2419532E+00	.- .6064109E-01
X(21)	- .2218800E+00	.- .4059777E+00	.- .7624883E+00	.- .6011616E+00	.- .1582551E+00	.- .2272329E+00	.- .4599545E-01	.- .3156020E+00
X(47)	.5370646E-01	.- .1556975E+00	.- .1671785E+00	.- .1935394E+00	.- .7942416E-01	.- .5672324E-01	.- .3958036E+00	.- .6244530E-01
X(31)	.3128727E+00	.- .3323256E-01	.- .5866664E-01	.- .4308970E-02	.- .3055924E+00	.- .3152086E+00	.- .7918027E+00	.- .1414820E+00
X(42)	.3363645E-02	.- .2242091E+00	.- .2885545E+00	.- .2968252E+00	.- .3929677E-01	.- .8910735E-02	.- .2282272E+00	.- .4702718E-01
X(46)	.1396051E-01	.- .1799316E+00	.- .2464493E+00	.- .2534989E+00	.- .5805698E-01	.- .1657009E-01	.- .3474840E+00	.- .4309399E-01
X(36)	- .7567517E-01	.- .2641323E+00	.- .4399444E+00	.- .3607273E+00	.- .5633815E-01	.- .6640396E-01	.- .1052139E+00	.- .1444481E-01
MACH	.8109386E+00	.- .3120856E+00	.- .5966344E+00	.- .4265434E+00	.- .7728458E+00	.- .7509228E+00	.- .1192231E+00	.- .8931993E-02

NADC-77036-30

FRIDAY, JUL 2, 1976

	$x(8)$	$x(27)$	$x(11)$	$x(23)$	$x(13)$	$x(28)$	$x(25)$	$x(20)$
X(7)	.3444352E+00	.2218910E+00	-.1312995E+00	.3143169E+00	-.2467042E-01	.278399E-02	-.2346184E+00	-.1234170E+00
X(19)	-.1402172E+00	.3026592E-01	.6468027E+00	.883864E+00	-.1265134E-01	.7495948E-02	.3157320E+00	.7711339E+00
DC	-.1134952E-01	-.4194225E-01	.9090188E+00	.6300669E+00	.3513321E-02	.9179573E-02	.6632300E+00	.9900635E+00
X(18)	.7116201E-01	.8895258E-02	.7823825E+00	.8241383E+00	-.3932784E-02	.1044730E-01	.5045182E+00	.8929771E+00
X(16)	.4491739E+00	.2241106E+00	-.1161497E+00	.3257573E+00	-.1851105E-01	.4690019E-02	-.1659917E+00	-.8108574E-01
X(26)	.7139347E-01	.8997274E+00	-.3185123E-01	.4268394E-01	.5175161E+00	.7004569E+00	-.5132155E-01	-.1993722E+01
X(10)	-.9247746E+00	-.1123154E+00	-.5955834E-02	-.1725921E+00	-.1640618E-01	.1121886E+00	.4150944E+00	-.7618015E+00
X(8)	.1000000E+01	.1136336E+00	.7240693E-02	.1837943E+00	.1540183E-01	.1163550E+00	-.3836964E+00	.8233461E+01
X(27)	-.1136336E+00	.1000000E+01	-.4981111E-01	.4188926E-01	.3413549E+00	.5473320E+00	-.7209520E-01	-.3450805E+01
X(11)	.7240693E-02	-.4981111E-01	.1000000E+01	.6905230E+00	.6576221E-02	.1981934E-02	.7309569E+00	.9000220E+00
X(23)	.1837943E+00	-.4188926E-01	.6905230E+00	.1000000E+01	-.1780795E-01	.9566282E-02	.3175625E+00	.6619777E+00
X(13)	.1540183E-01	.3413549E+00	.6576221E-02	-.1780795E-01	.1000000E+01	.7607597E+00	.8607333E-02	.2587540E+02
X(28)	.1163550E+00	.5473320E+00	.1981934E-02	.9666212E-02	.7607687E+00	.1000000E+01	-.2374101E-01	.1533453E+01
X(25)	-.3836964E+00	-.7209520E-01	.7309569E+00	.3175626E+00	.8607333E-02	.3374101E-01	.1000000E+01	.5741841E+00
X(20)	.8233461E-01	-.3450805E-01	.9000220E+00	.6619777E+00	.2587540E-02	.1533453E-01	.5741841E+00	.1000000E+01
X(14)	.4441595E+01	.2470908E+00	-.7699865E-01	.3572254E+00	-.1129405E-01	.3190744E-01	-.2330181E+00	-.5208525E+01
X(30)	.7993664E-01	.6860881E+00	-.2681994E-01	.5734050E-01	.8047198E+00	.6540648E+00	-.4553700E-01	-.2421652E+01
DT	.1383638E-01	.4782879E+00	.1705539E-02	-.2423473E-01	.7909716E+00	.9596573E+00	-.4042242E-03	.5922861E-02
X(15)	-.4755205E+00	.7353727E-01	-.1465156E+00	.6432313E-01	-.5272085E-01	.8787163E-01	.3710214E-01	-.1896409E+00
X(43)	.5472528E-01	.1950020E+00	.1639378E+00	.1550054E+00	.1082390E+00	.1927218E+00	.7449387E-01	.2158034E+00
X(21)	.2927361E+00	-.6413403E-01	.6839471E+00	.3155842E+00	.60556712E-02	.2147568E-01	.9168241E+00	.6707685E+00
X(47)	.5349921E-01	.3746181E+00	.1771668E+00	.1635527E+00	.1625506E+00	.2816520E+00	.7629344E-01	.1736872E+00
X(31)	.1460439E+00	.8304235E+00	-.5730075E-01	.7190159E-01	.6106451E+00	.5513549E+00	-.8824031E-01	-.4946287E-01
X(42)	.3649023E-01	.1196198E+00	.2506958E+00	.1807593E+00	.1532846E+00	.2156561E+00	.1502839E+00	.2838603E+00
X(46)	.2998580E-01	.2385872E+00	.2677632E+00	.1910728E+00	.2120759E+00	.2938534E+00	.1609965E+00	.2474895E+00
X(36)	.8844285E-02	-.4785214E-02	.4034171E+00	.2192105E+00	.3408649E+00	.2604146E+00	.2963735E+00	.4337064E+00
MACH	-.1569228E-01	.1581235E+00	-.5072687E+00	-.9692949E-01	-.6664463E-01	.7802839E-01	-.3734073E+00	-.5892913E+00

FRIDAY, JUL 2, 1976

	$x(14)$	$x(30)$	DT	$x(15)$	$x(43)$	$x(21)$	$x(47)$	$x(31)$
X(7)	.9174169E+00	.2039655E+00	-.3159018E-01	.4807623E+00	.3298928E-01	-.2218800E+00	.5370546E-01	.3128727E+00
X(19)	.2171230E+00	.3299718E-01	-.6735829E-02	-.3497184E-01	.2034877E+00	.4059777E+00	.1556975E+00	.3323256E-01
DC	-.8522185E-01	-.2507249E-01	.6210086E-02	-.1707910E+00	.2085173E+00	.7624883E+00	.1671785E+00	-.5866664E-01
X(18)	.1412103E+00	.2877503E-01	.1078447E-02	-.5852302E-01	.2377637E+00	.6011616E+00	.1935394E+00	.4308970E-02
X(16)	.9185232E+00	.2013209E+00	-.2558005E-01	.3529249E+00	.3886499E-01	-.1582551E+00	.7942416E-01	.3055924E+00
X(26)	.2392475E+00	.8104973E+00	.6800943E+00	.7994350E-01	.2419592E+00	-.4599545E-01	.3958036E+00	.7918027E+00
X(10)	-.4154214E+00	-.8149956E-01	-.1837622E-01	.4648888E+00	-.6064109E-01	.3156020E+00	.6244530E-01	-.1414820E+00
X(8)	.4441595E+00	.7993664E-01	.1383638E-01	-.4755205E+00	.5472528E-01	-.2927361E+00	.5349921E-01	.1460439E+00
X(27)	.2470908E+00	.5860881E+00	.4782879E+00	.7353727E-01	.1950020E+00	-.6413403E-01	.3746181E+00	.8304235E+00
X(11)	-.7699865E-01	.2681994E-01	.1705539E-02	.1465516E+00	.1689378E+00	.6939471E+00	.1771668E+00	-.5730075E-01
X(23)	.3572254E+00	.5734050E-01	-.2423473E-01	.6432313E-01	.1550054E+00	.3155842E+00	.1635527E+00	.7190159E-01
X(13)	-.1129405E-01	.8047198E+00	.7909716E+00	-.5272085E-01	.1082390E+00	.6056712E-02	.1625506E+00	.6106451E+00
X(28)	.3190744E-01	.6540648E+00	.9596573E+00	-.8788716E-01	.1927218E+00	-.2147568E-01	.2816520E+00	.5513549E+00
X(25)	-.2330181E+00	-.4553700E-01	-.4042242E-03	.3710214E-01	.7449387E-01	.9168241E+00	.7629344E-01	-.8824031E-01
X(20)	-.5208525E-01	.2421652E-01	.5922286E-02	.1856409E+00	.2158034E+00	.6707685E+00	.1736872E+00	-.4946287E-01
X(14)	-.1000000E+01	.2556489E+00	-.1312604E-01	.3784752E+00	.6470658E-01	-.2034070E+00	.8657798E-01	.3211207E+00
X(30)	.2556489E+00	.1000000E+01	.6423445E+00	.9248067E-01	.1799410E+00	-.4447823E-01	.2890186E+00	.9103570E+00
DT	-.1313604E-01	.6423445E+00	-.1000000E+01	-.5810776E-01	.1592429E+00	.1879478E-02	.2424034E+00	.4955257E+00
X(15)	.3784762E+00	.9248067E-01	.5810776E-01	.1000000E+01	.2990035E-01	-.4196888E-01	.7163520E-02	.1111415E+00
X(43)	.6470658E-01	.1799410E+00	.1592429E+00	-.2990035E-01	.1000000E+01	.1072805E+00	.8832842E+00	.1575178E+00
X(21)	-.2034070E+00	-.4447823E-01	.1879478E-02	-.4196888E-01	.1072805E+00	.1000000E+01	.7950787E-01	-.6246381E-01
X(47)	.8657798E-01	.2890186E+00	.2424034E+00	-.7163520E-02	.8832842E+00	.7950787E-01	.1000000E+01	.2939764E+00
X(31)	.3211207E+00	.9103570E+00	.4955257E+00	.1111415E+00	.1575178E+00	-.8246381E-01	.2839764E+00	.1000000E+01
X(42)	.4592463E-01	.1869789E+00	.2041433E+00	-.44956889E-01	.9317340E+00	.1881211E+00	.8285528E+00	.1091636E+00
X(46)	.6023039E-01	.2788758E+00	.2844893E+00	-.2489666E-01	.8255558E+00	.1577470E+00	.9210852E+00	.2035267E+00
X(36)	-.4710544E-01	.2097121E+00	.2699373E+00	-.9494256E-01	.6195702E+00	.33686605E+00	.5419689E+00	.8169542E-01
MACH	.7032916E+00	.1412707E+00	-.7760486E-01	.6910031E+00	-.9956997E-01	-.4614434E+00	-.4964579E-01	.2280832E+00

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(42)	X(46)	X(36)	MACH
X(7)	.3363645E-02	.1396051E-01	-.7567517E-01	.8109386E+00
X(19)	.2242051E+00	.1799316E+00	.2641323E+00	-.3120856E+00
DC	.2855545E+00	.2464493E+00	.4398444E+00	-.5866344E+00
X(18)	.2968252E+00	.2534989E+00	.3607273E+00	-.4265434E+00
X(6)	.3929677E-01	.5805698E-01	-.5633815E-01	.7728858E+00
X(16)	.8910735E-02	.1657009E-01	-.6640396E-01	.7509228E+00
X(26)	.2282272E+00	.3474840E+00	.1062139E+00	.1192231E+00
X(10)	-.4702718E-01	-.4309399E-01	-.1444481E-01	.8931993E-02
X(8)	.3649023E+01	.2998580E+01	.8844285E-02	-.1569228E-01
X(27)	.1196199E+00	.2356572E+00	-.4788214E-02	.1581235E+00
X(11)	.2505695E+00	.2577632E+00	.4034171E+00	-.5072687E+00
X(23)	.1807553E+00	.1810728E+00	.2192105E+00	-.9692949E-01
X(13)	.1532846E+00	.2120759E+00	.3408649E+00	-.6664463E-01
X(28)	.2156561E+00	.2938534E+00	.2604146E+00	-.7802839E-01
X(25)	.1502839E+00	.1609936E+00	.2963735E+00	-.3734073E+00
X(20)	.2898603E+00	.2474895E+00	.4337064E+00	-.5892913E+00
X(14)	.4592463E-01	.6023039E-01	-.4710544E-01	.7032916E+00
X(30)	.1869769E+00	.2788758E+00	.2097121E+00	-.1412707E+00
DT	.2041433E+00	.2844893E+00	.2699373E+00	-.7760486E-01
X(15)	-.4496889E-01	-.2489666E-01	-.9494256E-01	.6910031E+00
X(43)	.9317340E+00	.8255558E+00	.6195702E+00	-.9956997E-01
X(21)	.1881211E+00	.1577470E+00	.3368605E+00	-.4614434E+00
X(47)	.8285528E+00	.9210662E+00	.5419689E+00	-.4864579E-01
X(31)	.1091636E+00	.2035267E+00	.8165942E-01	.2280832E+00
X(42)	.1000000E+01	.9039057E+00	.7697376E+00	-.1515145E+00
X(46)	.9039057E+00	.1000000E+01	.6986710E+00	-.1089439E+00
X(36)	.7697376E+00	.6886710E+00	.1000000E+01	-.2751341E+00
MACH	-.1515145E+00	-.1089439E+00	-.2751341E+00	.1000000E+01

FRIDAY, JUL 2, 1976

SUMS OF SQUARES AND CROSS PRODUCT MATRIX
FOR TOTAL.

	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	.4793711E+04	.1043505E+06	-.2704321E+05	.9919502E+04	.9848778E+03	.1703276E+04	.1483595E+04	-.5707330E+06
X(19)	.1043505E+06	.1035658E+09	.1990133E+08	.3480512E+08	.3130858E+05	.4156654E+05	-.8100922E+05	.3355968E+08
DC	-.2704321E+05	.1990133E+08	.6953701E+07	-.8547689E+07	-.4158464E+04	-.8583821E+04	-.4695516E+05	-.7304553E+06
X(18)	.9919502E+04	.3480512E+08	.8547689E+07	.1340366E+08	.7763070E+04	.4618775E+04	-.3017469E+04	-.6408193E+07
X(6)	.8484778E+03	.3130858E+05	-.4158464E+04	.7763070E+04	.2522796E+03	.3399666E+03	.1157518E+04	-.8771725E+05
X(16)	.1703276E+04	.4156654E+05	-.8583821E+04	.4618775E+04	.3399666E+03	.6197782E+03	.6040495E+03	-.2561102E+06
X(26)	.1483595E+04	-.8100922E+05	.4695516E+05	.3017469E+04	.1157518E+04	.5040495E+03	.6103293E+06	-.7565439E+06
X(10)	-.5707330E+06	.3355968E+08	.7304355E+05	-.6408193E+07	-.8771725E+05	-.2561102E+06	.7565439E+06	.6262139E+09
X(8)	.2599576E+02	.1561472E+04	.3299859E+02	.2854874E+03	.3848251E+01	.1218555E+02	.2809813E+02	-.2526106E+05
X(27)	.1483326E+05	-.1032828E+06	.2198287E+06	-.8358828E+04	-.5676246E+04	.1641859E+07	-.4271387E+07	
X(11)	-.3840816E+07	.2829622E+10	.1030328E+10	.1247049E+10	-.6030044E+06	-.1221619E+07	-.1092119E+08	-.6555631E+08
X(23)	.3605939E+07	.1471759E+11	.2715552E+10	.14934932E+10	-.6842688E+07	.1342017E+08	-.3271026E+08	-.7073711E+10
X(13)	-.3321631E+07	-.20393895E+09	.6593190E+07	-.4300015E+08	.5198935E+06	-.1069325E+07	.3459704E+09	-.7992721E+08
X(28)	-.10446421E+06	-.5704421E+05	.2080227E+05	-.1173216E+05	.1548803E+03	-.3207457E+03	.1277309E+06	-.2024560E+06
X(25)	.1160664E+11	.2326929E+13	.1264998E+13	.1336754E+13	.1889633E+10	.4480917E+10	.2541250E+11	.7508638E+13
X(20)	.7237611E+04	.6721869E+07	.2237054E+07	.2800970E+07	.1093656E+04	-.2117929E+04	-.1269400E+05	-.1634910E+07
X(14)	.3610240E+03	.1266430E+05	.1266233E+04	.2964579E+04	.8719933E+02	.1299950E+03	.4154456E+03	.5905502E+05
X(30)	.5212874E+07	.6171939E+07	.5913285E+08	.1736527E+08	.1968773E+07	.1916919E+07	.5394274E+09	-.1130817E+10
DT	-.3844440E+04	-.2145199E+06	.8707792E+04	-.4550813E+05	.5798700E+03	-.1264658E+04	.3913657E+06	-.1161539E+05
X(15)	.2836386E+07	.2525062E+08	.35057974E+08	.1615535E+08	.7251334E+06	.6993845E+06	-.1178205E+07	.9091233E+09
X(43)	.3098045E+05	.4030160E+09	.1123828E+09	.1743591E+09	.1109580E+06	.5223637E+05	.6506353E+08	-.3010919E+09
X(21)	-.6461647E+08	.1760463E+11	.8561461E+10	.9373668E+10	.1060610E+08	-.2382518E+08	-.1368529E+09	.3360646E+11
X(47)	.1969442E+08	.4718507E+11	.1448328E+11	.2244469E+11	.2652919E+08	.1220768E+08	.1618707E+11	-.4949246E+11
X(31)	.3223916E+08	.1605105E+09	.3176162E+09	-.8073539E+08	.7810861E+07	.1189924E+08	.1423124E+10	-.6331821E+10
X(42)	-.1926802E+06	.1666799E+09	.5901661E+08	.8245830E+08	.1694865E+05	.5331218E+05	.2830665E+08	-.8594521E+08
X(46)	-.3497489E+08	.2099391E+11	.8281278E+10	.1141658E+11	.47720272E+07	-.1057032E+08	.5601164E+10	-.1256195E+11
X(36)	-.4820306E+08	.1641696E+12	.7411658E+11	.8293394E+11	.7970977E+08	-.1550256E+09	.1702339E+11	-.1869435E+11
MACH	.1258247E+03	-.8870245E+04	-.3466487E+04	-.3415635E+04	.2742338E+02	.4192448E+02	-.1004833E+03	.4201198E+03

NADC-77036-30

FRIDAY, JUL 2, 1976

	x(8)	x(27)	x(11)	x(23)	x(13)	x(28)	x(25)	x(20)
X(7)	.2599576E+02	.1483326E+05	-.3840816E+07	.3605993E+08	-.3321631E+07	-.1044625E+04	-.1160664E+11	-.7237611E+04
X(19)	.1561472E+04	-.1034981E+06	.2829622E+10	.1471759E+11	.2093895E+09	.5704421E+05	.2326929E+13	.6721869E+07
DC	.3299859E+02	-.2198287E+05	.1030328E+10	.2715552E+10	.6593190E+07	.2080827E+04	.1264998E+13	.2237054E+07
X(18)	.2854874E+03	-.8358828E+05	.1247049E+10	.4934932E+10	-.4300015E+03	-.1173216E+05	.1336754E+13	.2800970E+07
X(6)	.3848251E+01	.4560356E+04	.6030044E+06	.8684268E+07	.51988935E+01	-.1548803E+03	-.1889633E+10	-.1093656E+04
X(16)	.1218555E+02	.5676246E+04	-.1221619E+07	.1342017E+08	.1069325E+07	-.3207467E+03	-.4480917E+10	-.2117529E+04
X(26)	.2809813E+02	.1641859E+07	-.1092119E+09	-.3271026E+08	.3459704E+09	.1277309E+05	-.2541250E+11	.1269400E+05
X(10)	-.2526106E+05	-.4271387E+07	.6555631E+08	-.7073711E+10	.7932721E+08	.2024560E+06	.7508638E+13	.1634910E+07
X(8)	.1191536E+01	.1826913E+03	.3490501E+04	.3289201E+06	.14912386E+04	.8587426E+01	-.3026865E+09	.77093861E+02
X(27)	.1826913E+03	.4988074E+07	-.4603330E+08	.4676125E+08	.8305621E+09	.3192509E+06	-.1049551E+12	.5882815E+05
X(11)	.3490601E+04	-.4603330E+08	.1847553E+12	.4853400E+12	.1776829E+11	-.1088135E+07	.2272649E+15	.3314744E+09
X(23)	.3289201E+06	.4676125E+08	.4853400E+12	.2677092E+13	.5292745E+11	.17911148E+08	.3763295E+15	.9269513E+09
X(13)	.1491286E+04	.8305621E+09	-.1776829E+10	-.5292745E+11	.3164295E+12	.8914064E+08	-.2718908E+13	.2142154E+07
X(28)	.8587426E+01	.3192509E+06	-.1089135E+07	-.17911148E+08	.8914064E+09	.3261734E+05	-.4125519E+10	-.1074784E+03
X(25)	-.3026865E+05	-.1049551E+12	.2272649E+15	.3769259E+15	.2718908E+13	.4125519E+10	.5231035E+18	.3558633E+12
X(20)	.77093861E+02	.5982815E+05	.3314744E+09	.9269513E+09	.2142154E+07	-.1074784E+02	.3558633E+12	.7341936E+06
X(14)	.2755253E+01	-.1763914E+04	.1852717E+06	.3345404E+07	.1625730E+06	-.3975952E+02	-.9516507E+09	-.2506204E+03
X(30)	.4635364E+05	.1435312E+10	.1057339E+11	.5184520E+10	.3909749E+12	.1125434E+09	-.2636592E+14	.1630564E+08
DT	-.2676237E+01	.9550417E+06	.3428532E+07	-.6149547E+08	.2769169E+09	.9968952E+05	-.6538034E+10	-.2498725E+04
X(15)	-.4053791E+05	.5485277E+06	.4882203E+10	.8895757E+10	.4234256E+10	.1618370E+07	.2184467E+13	.1266795E+08
X(43)	.11153368E+05	.1675569E+09	.1458336E+11	.4562796E+11	.3542742E+11	.1398316E+08	.1031478E+14	.3786527E+08
X(21)	-.1359345E+07	-.5571785E+09	.1270212E+13	.2201406E+13	.1890384E+11	.1934148E+08	.2823500E+16	.2447323E+10
X(47)	.1766868E+07	.4491637E+11	.2456881E+13	.7374543E+13	.8515578E+13	.3338185E+10	.1657420E+16	.4907079E+10
X(31)	.2808243E+05	.4316721E+10	-.5428748E+11	.9592939E+11	.9196093E+12	.2742701E+09	-.1338209E+15	-.8763011E+08
X(42)	.2720115E+04	.6392228E+08	.8241678E+10	.1991300E+11	.1746955E+11	.6508061E+07	.8133066E+13	.1928980E+08
X(46)	.3335584E+06	.1597097E+11	.1447093E+13	.3321480E+13	.3953890E+13	.1466631E+10	.1423565E+16	.2708161E+10
X(36)	.3357611E+06	.3317839E+11	.1100168E+14	.2075684E+14	.1749992E+14	.4933482E+10	-.1351111E+17	.2375661E+11
MACH	-.3323823E-01	.2786135E+02	-.4790499E+06	-.3128288E+06	-.2001088E+06	-.7125788E+02	-.5919309E+09	-.1112775E+04

FRIDAY, JUL 2, 1976

	x(14)	x(30)	DT	x(15)	x(43)	x(21)	x(47)	x(31)
X(7)	.3610340E+03	.5212874E+07	-.3844440E+04	.2636386E+07	.3098045E+05	.6461647E+08	.1969442E+08	.3223916E+08
X(19)	.1266430E+05	.6171939E+07	-.2145199E+06	-.2525062E+08	.4030160E+09	.1760463E+11	.4718507E+11	.1605105E+09
DC	.1266236E+04	-.5913285E+08	-.8707792E+04	.3507974E+08	.1123282E+09	.8561461E+10	.1448328E+11	.3176162E+09
X(18)	.2964579E+04	.1736527E+08	-.4550813E+05	.1615553E+08	.1743591E+09	.9373668E+10	.2244469E+11	.8073539E+08
X(6)	-.8719933E+02	.1968773E+07	-.5798700E+03	.7251334E+06	.1109580E+06	.1060610E+08	.2652919E+08	.7810861E+07
X(16)	-.1299850E+03	.1916918E+07	-.1264658E+04	.6993845E+06	.5221637E+05	-.2332518E+08	.1220768E+08	.1189924E+08
X(26)	.4154456E+03	.5394274E+09	.3913650E+06	-.1178206E+07	.6506353E+08	-.1368529E+09	.1618707E+11	.1423124E+10
X(10)	-.5905502E+05	-.1130817E+10	-.1161539E+05	.9091233E+09	-.3010919E+09	.3360646E+11	-.4949246E+11	-.6331621E+10
X(8)	.2755253E+01	.4635364E+05	-.2676237E+01	-.4053791E+05	.1153368E+05	.1359345E+07	.1766856E+07	.2808243E+06
X(27)	.1763914E+04	.1435312E+10	.9550417E+06	.5485277E+06	.1675569E+09	.5571785E+09	.4491637E+11	.4316721E+10
X(21)	-.1852717E+06	-.5073951E+11	-.3428532E+10	-.4882203E+10	.1458336E+11	.12701406E+13	.2456881E+13	-.5428748E+11
X(23)	.3345404E+07	.5184520E+10	.6149547E+08	.8895757E+10	.1458336E+11	.2201406E+13	.7374543E+13	.9592939E+11
X(13)	-.1625730E+06	.3909374E+12	.2769169E+09	-.4234256E+10	.3542742E+11	.1890384E+11	.8515578E+13	.9196093E+12
X(28)	.3975952E+06	.1125434E+09	.9985952E+05	-.1618370E+07	.1398316E+08	.1934148E+11	.3338185E+10	.2742701E+09
X(25)	.9516507E+09	-.2636593E+14	-.6538034E+10	.2184467E+13	.1031478E+14	.2823500E+16	.1657420E+16	-.1338209E+15
X(20)	-.2506204E+03	.1630654E+08	-.2498825E+04	-.1266795E+08	.3786527E+08	.2447323E+10	.4907079E+10	-.8763011E+08
X(14)	.3231351E+02	.7070282E+06	-.1896185E+03	.1703141E+06	.5334876E+05	.4888473E+07	.1113759E+08	.2979633E+07
X(30)	.7070282E+06	.6120704E+12	.3439017E+09	.1148688E+10	.5555451E+11	.1507461E+12	.1378488E+14	.1607106E+13
DT	-.18986185E+03	.3439017E+09	.3099780E+06	-.4375439E+07	.4131902E+08	.3430907E+08	.9947465E+10	.8158288E+09
X(15)	.1703141E+06	.1148688E+10	-.4375439E+07	.6167920E+10	.9182376E+09	.1350897E+11	-.1223348E+12	.8489830E+10
X(43)	.5334876E+05	.5555451E+11	.4131902E+08	.9182376E+09	.4747346E+11	.8992322E+11	.7246903E+13	.1389644E+12
X(21)	-.4888473E+07	-.1507461E+12	-.3430907E+08	-.1350897E+11	.8992332E+11	.1812975E+14	.1027581E+14	-.7380018E+12
X(47)	.1113759E+08	.1378488E+14	.9947465E+10	-.1223348E+12	.7246903E+13	.1027581E+14	.1393380E+15	.3714722E+14
X(31)	.2979633E+07	.1607106E+13	.8158288E+09	.8489830E+10	.1389644E+12	.7380018E+12	.3714722E+14	.4836697E+13
X(42)	.95664913E+04	.2466889E+11	.1983101E+08	.44337819E+09	.1731670E+11	.6066037E+13	.2706102E+13	.5338804E+14
X(46)	.1990630E+07	.5750839E+13	.4489457E+10	.72012367E+11	.2707496E+13	.8225837E+13	.5190762E+15	.1335877E+14
X(36)	-.2478515E+08	.1910703E+14	.1531271E+11	.6219487E+12	.9742041E+13	.9071681E+14	.1528866E+16	.3573678E+14
MACH	.8937985E+01	.1262246E+05	-.2195274E+03	.1217902E+06	-.6924339E+05	.4314064E+07	-.9344784E+07	.5177181E+06

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(42)	X(46)	X(36)	MACH
X(7)	-.1926802E+06	-.3497489E+08	-.4820306E+09	.1258247E+03
X(19)	.1666799E+09	.2099391E+11	-.1641696E+12	-.6870245E+04
DC	.5901651E+08	.8281278E+10	.7411558E+11	-.3866487E+04
X(18)	.8245830E+08	-.1141680E+11	-.8293394E+11	-.3415635E+04
X(6)	.1694865E+05	.4772072E+07	-.7970977E+08	.2742338E+02
X(16)	-.5331218E+05	-.1057032E+08	-.1550256E+09	.4192448E+02
X(26)	.2830665E+08	.6601164E+10	.1702339E+11	-.1004833E+03
X(10)	-.8594521E+08	-.1256195E+11	-.1869635E+11	.4201198E+03
X(8)	.2720115E+04	.3335584E+06	.3357611E+06	-.3323823E+01
X(27)	.6392228E+08	.1597097E+11	-.3317839E+11	.2786135E+02
X(11)	.8241867E+10	.1447093E+13	.1100168E+14	-.4790499E+06
X(23)	.1991300E+11	.3321480E+13	.2075568E+14	-.3128288E+05
X(13)	.1746955E+11	.3953890E+13	.1749992E+14	-.2001058E+06
X(28)	.6508061E+07	.1466631E+10	.4933482E+10	-.7125788E+02
X(25)	.8133066E+13	.1423565E+16	.1351111E+17	-.5919309E+09
X(20)	.1928980E+08	.2708161E+10	.2375661E+11	-.1112775E+04
X(14)	.9564913E+04	.1990630E+07	-.2478515E+08	.8937985E+01
X(30)	.2466889E+11	.5750839E+13	.1910703E+14	.1262246E+05
DT	.1983101E+08	.4489457E+10	.1531271E+11	-.2195274E+03
X(15)	-.4837819E+05	.7201367E+11	-.6219487E+12	.1217902E+06
X(43)	.1731670E+11	.2707496E+13	.9742041E+13	-.6924339E+05
X(21)	.6066037E+11	.8225837E+13	.9071681E+14	-.4314064E+07
X(47)	.2706010E+13	.5190762E+15	.1528866E+16	-.9344784E+07
X(31)	.5338804E+11	.1335877E+14	.3573578E+14	.5177181E+06
X(42)	.7194998E+10	.1153694E+13	.4598041E+13	-.3761396E+05
X(46)	.1153694E+13	.2209933E+15	.7438717E+15	-.5678745E+07
X(36)	.4598041E+13	.7438717E+15	.4630851E+16	-.4696204E+08
MACH	-.3761396E+05	-.5678746E+07	-.4696204E+08	.5006711E+01

FRIDAY, JUL 2, 1976

SUMS OF SQUARES AND CROSS PRODUCT MATRIX FOR TREATMENT.

	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(-7)	.4399930E+02	.2631543E+04	.1705825E+03	.6197610E+03	.6683178E+01	.1474655E+02	-.4164359E+04	-.1375818E+04
X(19)	.2631543E+04	.1573892E+06	.1020232E+05	.3706712E+05	.3997124E+03	.8819724E+03	-.2490651E+06	-.8228596E+05
DC	.1705825E+03	.1020232E+05	.6683178E+03	.2402774E+04	.2591026E+02	.5717143E+02	-.1614496E+05	-.5333961E+04
X(18)	.6197610E+03	.3706712E+05	.2402774E+04	.8729769E+04	.9413725E+02	.2077155E+03	-.5865792E+05	-.1937937E+05
X(6)	.6683178E+01	.3997124E+03	.2591026E+02	.9413725E+02	.1015127E+01	.2239895E+01	-.6325363E+03	-.2089769E+03
X(16)	.1474655E+02	.8819724E+03	.5717143E+02	.2077155E+03	.2239895E+01	.4942366E+01	-.1395702E+04	-.4611112E+03
X(26)	-.4164359E+04	-.2490651E+06	-.1614496E+05	-.5865792E+05	.6325363E+03	-.1395702E+04	.3941401E+06	.1302158E+06
X(10)	-.1375818E+04	.8228596E+05	.5333961E+04	.1937937E+05	.2089769E+03	-.4611112E+03	.1302158E+06	.4302060E+05
X(8)	.8594537E-01	.5140284E+01	.3332048E+00	.1210601E+01	.1205449E-01	.2880495E-01	.8134318E+01	-.2687434E+01
X(27)	-.1013161E+05	.6059589E+06	.3927936E+06	.1427109E+06	.1538919E+06	.3395565E+04	.9589169E+06	.3168064E+06
X(11)	.4814217E+05	.2879323E+07	.1865442E+06	.6781163E+06	.7312451E+04	.1613505E+07	-.4555646E+07	-.1505362E+07
X(23)	.6880082E+05	.4114890E+08	.2667364E+07	.9691079E+07	.1045035E+06	.2305888E+06	-.6511725E+08	-.2151340E+08
X(13)	-.2647731E+07	-.1583575E+09	-.1026509E+07	-.3729515E+08	.4021714E+06	.8873980E+06	.2505972E+09	.82779216E+08
X(28)	-.1060748E+07	-.6344200E+05	-.41142453E+05	-.1494138E+05	.1611200E+03	-.3555141E+03	.1003956E+06	.3316863E+05
X(25)	.8617886E+05	.5154249E+10	.33421100E+05	.1213890E+10	.1308935E+08	.2888320E+08	-.8156487E+10	.2694735E+10
X(20)	.5020044E+02	.3002425E+04	.19462239E+03	.7071084E+03	.7625087E+01	.1682488E+02	-.4751272E+04	-.1569722E+04
X(14)	.2279506E+01	.1363344E+03	.8837501E+01	.3210844E+02	.3462406E+00	.7639858E+00	-.2157462E+03	-.7127810E+02
X(30)	-.3290738E+07	-.1958149E+09	-.1275798E+08	-.4635235E+08	-.4998395E+06	-.1102904E+07	.3114553E+09	.1028984E+09
DT	-.3300777E+04	.1974153E+06	.1279690E+05	-.4649376E+05	.5013644E+03	-.1106269E+04	.3124055E+06	.1032123E+06
X(15)	.4318613E+05	.2582908E+07	.1674299E+06	.6083069E+06	.6559663E+04	.1447401E+05	-.4087396E+07	-.1150391E+07
X(43)	-.4407905E+06	.2636312E+08	-.1708917E+07	-.6208843E+07	.6695291E+05	-.1477327E+06	.4171907E+08	.1378312E+08
X(21)	.4839737E+05	.2894586E+08	.1476335E+07	.6817109E+07	.7351213E+05	.1622058E+06	-.4580619E+08	-.1513342E+08
X(47)	-.1053419E+09	-.6300365E+10	-.4084038E+09	-.1483814E+10	-.1600068E+08	-.3530576E+08	.9970191E+10	.3293945E+10
X(31)	-.7811285E+07	-.4671813E+09	-.3028386E+08	-.1100274E+09	-.1186478E+07	-.2617985E+07	.7393072E+09	.2442518E+09
X(42)	-.2109098E+06	-.1251425E+08	-.8176842E+06	-.2970813E+07	-.3203569E+05	-.7068731E+05	.1995178E+08	.6594961E+07
X(46)	-.4750835E+08	-.2841414E+10	-.1841869E+09	-.6691884E+09	-.7216177E+07	-.1592262E+08	.44956477E+10	.1485543E+10
X(36)	-.1462717E+09	-.8748325E+10	-.5670861E+09	-.2060339E+10	-.2221762E+08	-.4902356E+08	.1384404E+11	.4573778E+10
MACH	.2355607E+01	.1408859E+03	.9132540E+01	.3318038E+02	.3577998E+00	.7894915E+00	-.2229489E+03	-.7365771E+02

NADC-77036-30

FRIDAY, JUL 2, 1976

	x(8)	x(27)	x(11)	x(23)	x(13)	x(28)	x(25)	x(20)
x(7)	.8594537E-01	-.1013161E+05	.4814217E+05	.6880082E+06	-.2647731E+07	-.1060748E+04	.8617886E+08	.5020044E+02
x(19)	.5140284E+01	-.6059589E+06	.2879323E+07	.4114890E+08	-.1583575E+09	-.6344200E+05	.5154249E+10	.3002425E+04
DC	.3332048E+00	-.39279562E+05	.1866442E+06	.2667364E+07	-.1026509E+08	-.4112453E+04	.3341100E+09	.1946239E+03
x(18)	.1210601E+01	-.1427109E+06	.6781163E+06	.9691079E+07	-.3729515E+08	-.1494138E+05	.1213890E+10	.7071084E+03
x(6)	.1305449E-01	-.1538819E+04	.7312451E+04	.1045035E+06	-.4021714E+06	-.1611200E+03	.1308995E+08	.7625087E+01
x(16)	.2880495E-01	-.3395652E+04	.1613505E+05	.2305888E+06	-.8873980E+06	-.3555141E+03	.2888320E+08	.1682488E+02
x(26)	-.8134388E+01	-.9589169E+06	-.4556466E+07	-.6511725E+08	.2505972E+09	.1003956E+06	.8156487E+10	-.4751272E+04
x(10)	-.2687434E+01	.3168064E+05	-.1505362E+07	-.2151340E+08	.8279216E+08	.3316863E+05	.2694735E+10	-.1569722E+04
x(8)	.1678801E-03	-.1979043E+02	.9403779E+02	.1343910E+04	.5171906E+04	.2071996E+01	.1683362E+06	.9805828E-01
x(27)	-.1979043E+02	.2332982E+07	-.1108558E+08	-.1584260E+09	.6096866E+09	.2442559E+06	.1984420E+11	.1155953E+05
x(11)	.9403779E+02	-.1108558E+08	.5267513E+08	.7527895E+09	-.2897036E+10	-.1160626E+07	.9429327E+11	.5492720E+05
x(23)	.1343910E+04	-.1584260E+09	.7527895E+09	.1075825E+11	-.4140204E+11	-.1658670E+08	.1347562E+13	.7849742E+06
x(13)	-.5171906E+04	.6096866E+09	-.2897036E+10	-.4140204E+11	.1593316E+12	.6383228E+08	.5185956E+13	-.3020895E+07
x(28)	-.2071996E+01	.2442559E+06	-.1160626E+07	-.1658670E+08	.6383228E+08	.2557283E+05	.2077625E+10	.1210247E+04
x(25)	.1683362E+06	-.1984420E+11	.9429327E+11	.1347562E+13	.5185956E+13	-.2077625E+10	.1687935E+15	.9832467E+08
x(20)	.9805828E-01	-.1155953E+05	.5492720E+05	.7849742E+06	-.3020895E+07	-.1210247E+04	.9832467E+08	.5727555E+02
x(14)	.4452639E-02	-.5248963E+03	.2494139E+04	.3564418E+05	-.1371731E+05	-.5495500E+02	.4464735E+07	.2600773E+01
x(30)	-.6427913E+04	.7577502E+09	-.3600586E+10	-.5145661E+11	.1980256E+12	.7933408E+08	.6445376E+13	.3754526E+07
DT	-.6447523E+01	.7600620E+06	-.3611571E+07	-.5161359E+08	.1986298E+09	.7957611E+05	.6465040E+10	.3765980E+04
x(15)	.8435569E+02	-.9944365E+07	.4725244E+08	.6752928E+09	-.2598797E+10	-.1041144E+07	.8458615E+11	.4927266E+05
x(43)	-.8610114E+03	.1014898E+09	-.4822943E+09	-.6895525E+10	.2652530E+11	.1062671E+08	.8631350E+12	.5029143E+06
x(21)	.9453627E+03	-.1114434E+09	.5295436E+09	.7567799E+10	-.2912392E+11	-.1165778E+08	.9479310E+12	.5521836E+06
x(47)	-.2057680E+06	.2425620E+11	-.1152606E+12	-.1647210E+13	.6339123E+13	.2539612E+10	.2063270E+15	-.1201985E+09
x(31)	.1525806E+05	.1798686E+10	-.8547778E+10	-.1221425E+12	.4700571E+12	.1883168E+09	.1529951E+14	-.8912187E+07
x(42)	-.4119776E+03	.4856570E+08	-.2307686E+09	-.3297955E+10	.1269185E+11	.5084677E+07	.4130968E+12	.2406349E+06
x(45)	.9279972E+05	.1093963E+11	-.5198163E+11	-.7428785E+12	.2858894E+13	.1145345E+10	.9305193E+14	.5420405E+08
x(36)	-.2857175E+06	.3368163E+11	-.1600443E+12	-.2287221E+13	.8802143E+13	.3526361E+10	.2864938E+15	-.1668868E+09
MACH	.4601290E-02	-.5424200E+03	.2577406E+04	.3683416E+05	-.1417526E+06	-.5678967E+02	.4613790E+07	.2687600E+01

FRIDAY, JUL 2, 1976

	x(14)	x(30)	DT	x(15)	x(43)	x(21)	x(47)	x(31)
x(7)	.2279506E+01	-.3290733E+07	-.3300777E+04	.4318613E+05	-.4407905E+06	.4839737E+06	-.1053419E+09	-.7811285E+07
x(19)	.1363344E+03	-.1968149E+09	-.1974153E+06	.2582908E+07	-.2636312E+08	.2894586E+08	-.6300365E+10	-.4671831E+09
DC	.8837501E+01	-.1275798E+08	-.1279690E+05	.1674299E+06	-.1708917E+07	.1876335E+07	-.4084038E+09	-.3028385E+08
x(18)	.3210844E+02	-.4635235E+08	-.4649376E+05	.6083069E+06	-.6208843E+07	.6817109E+07	-.1483814E+10	-.1100274E+09
x(6)	.3462406E+00	-.4998395E+06	-.5013644E+03	.6595293E+04	-.6659291E+05	.7351213E+05	-.1600068E+08	-.1186478E+07
x(16)	.7639858E+00	-.1102904E+07	-.1106269E+04	.1447401E+05	-.1477327E+06	.1622058E+06	-.3530576E+08	-.2617985E+07
x(26)	-.2157462E+03	-.3114553E+09	.3124055E+06	-.4087396E+07	-.4171907E+08	-.4580619E+08	-.9970191E+10	.7393072E+09
x(10)	-.7127810E+02	.1028984E+09	-.1032123E+06	-.1350391E+07	-.1378312E+08	-.1513342E+08	-.1293945E+10	.2442518E+09
x(8)	-.4452639E+02	.6427913E+04	-.6447523E+01	.8435698E+02	-.8610114E+03	.9453627E+03	-.2057680E+06	-.1525806E+05
x(27)	-.5248956E+03	.7577502E+09	.7606020E+06	-.9944365E+07	-.1014988E+09	-.1114434E+09	.2425682E+11	.1798686E+10
x(11)	.2494139E+04	-.3600586E+10	-.38161571E+07	.4725244E+08	-.4822943E+09	.5295436E+09	-.1152606E+12	.8546778E+10
x(23)	.3564418E+05	-.5145611E+11	-.5161359E+08	.6752928E+09	-.6892552E+10	.7567799E+10	-.1647210E+13	-.1221435E+12
x(13)	-.1371731E+06	.1980256E+12	.1986298E+09	-.2598797E+10	-.2652530E+11	-.2912392E+11	.6339123E+13	.4700571E+12
x(28)	-.5495500E+02	.7933408E+08	.7957611E+05	-.1041144E+07	-.1062671E+08	-.1166778E+08	.2539613E+10	.1883168E+09
x(25)	.4464735E+07	-.6445376E+13	.6465040E+10	.8458615E+11	-.8633350E+12	.9479310E+12	-.2063270E+15	.1529951E+14
x(20)	.2600773E+01	-.3754526E+07	.3765980E+04	.4927266E+05	-.5029143E+06	.5521836E+05	-.1201885E+09	-.8912187E+07
x(14)	.1180561E+00	-.1704858E+06	-.1710059E+03	.2237377E+04	-.2283638E+05	.2507360E+05	-.5457529E+07	-.4046854E+06
x(30)	-.1704858E+06	.2461166E+12	.2468674E+09	-.3229520E+10	-.3296702E+11	-.3619673E+11	.7878592E+13	.5842114E+12
DT	-.1710059E+03	.2468674E+09	.2476205E+06	-.4238774E+07	-.4326440E+08	-.4750292E+09	-.1033950E+12	-.7666921E+10
x(15)	.2237377E+04	-.3229520E+10	-.3239774E+07	.4238774E+08	-.4326440E+09	-.4750292E+09	-.1055228E+13	.7825442E+11
x(43)	-.2283638E+05	.3296702E+11	.3306760E+08	-.4326440E+09	-.4415894E+10	-.4848509E+10	-.1055228E+13	.8592084E+11
x(21)	.2507360E+05	-.3619673E+11	.3630715E+08	.4750292E+09	-.4848509E+10	.5232350E+10	-.1158716E+13	.8592084E+11
x(47)	-.5457529E+07	.7887859E+13	.7902627E+10	-.1033950E+12	-.1055328E+13	-.1158716E+13	.2522065E+15	.1870156E+14
x(31)	.4046854E+06	.5842114E+12	.5859397E+09	.7666921E+10	.7825443E+11	.8592084E+11	.1870156E+14	.1386753E+13
x(42)	-.1092577E+05	.1577409E+11	.1582222E+08	-.2070119E+09	.2112921E+10	.2319919E+10	.5049544E+12	.3744326E+11
x(46)	.2461302E+07	.3553182E+13	.3564202E+10	.4663033E+11	.4759446E+12	.5225718E+12	.1137431E+15	.8434254E+13
x(36)	.7578012E+07	.1093976E+14	.1097314E+11	-.1435584E+12	.1465368E+13	.1608927E+13	.3501995E+15	.2556791E+14
MACH	.1220388E+00	-.1761775E+08	-.1767150E+03	.2212072E+04	-.2359877E+05	-.2591068E+05	-.5639728E+07	-.4181957E+06

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(42)	X(46)	X(36)	MACH
X(7)	- .2109098E+06	- .4750835E+08	- .1462717E+09	.2355607E+01
X(19)	- .1261425E+08	- .2841414E+10	- .8748325E+10	.1408859E+03
DC	- .8176842E+06	- .1841869E+09	- .5670861E+09	.9132540E+01
X(18)	- .2970813E+07	- .6891884E+09	- .2060339E+10	.3318038E+02
X(6)	- .3203569E+05	- .7216177E+07	- .2221762E+08	.3577998E+00
X(16)	- .7058731E+05	- .1592262E+07	- .4902356E+08	.7894915E+00
X(26)	- .1956178E+08	- .4496477E+10	- .1384404E+11	- .2229489E+03
X(10)	- .6594961E+07	- .1485543E+10	- .4573784E+10	- .7365577E+02
X(8)	- .4119776E+03	- .9279972E+05	- .2857176E+06	- .4501290E+02
X(27)	- .4856570E+08	- .1093983E+11	- .3368153E+11	- .5424200E+03
X(11)	- .2307686E+09	- .5198163E+11	- .1600443E+12	.2577406E+04
X(23)	- .3297955E+10	- .7428785E+12	- .2287221E+13	.3683416E+05
X(13)	- .1269185E+11	- .2858894E+13	- .8802143E+13	- .1417526E+06
X(28)	- .5084677E+07	- .1145345E+10	- .3526361E+10	- .5678967E+02
X(25)	- .4130968E+12	- .9305183E+10	- .2864938E+15	.4613790E+07
X(20)	- .2406349E+05	- .5420405E+09	- .1668866E+09	- .2887600E+01
X(14)	- .1092677E+05	- .2461302E+07	- .7578012E+07	- .1220388E+00
X(30)	- .1577409E+11	- .3553182E+13	- .1093976E+14	- .1761775E+06
DT	- .1582222E+08	- .3564022E+10	- .1097314E+11	- .1767150E+03
X(15)	- .2070119E+09	- .4663033E+11	- .1435684E+12	.2312072E+04
X(43)	- .2112921E+10	- .4759446E+12	- .1465368E+13	- .2359877E+05
X(21)	- .2319919E+10	- .5225718E+12	- .1608927E+13	.2591068E+05
X(47)	- .5049544E+12	- .1137431E+15	- .3501995E+15	- .5639728E+07
X(31)	- .3744326E+11	- .8434254E+13	- .2595679E+14	- .4181957E+06
X(42)	- .1010993E+10	- .2277304E+12	- .7011507E+12	- .1129156E+05
X(46)	- .2277304E+12	- .5129725E+14	- .1579372E+15	- .2543473E+07
X(36)	- .7011507E+12	- .1579372E+15	- .4862670E+15	- .7821003E+07
MACH	- .1123156E+05	- .2543473E+07	- .7831003E+07	.1261130E+00

FRIDAY, JUL 2, 1976

SUMS OF SQUARES AND CROSS PRODUCT MATRIX
FOR ERROR.

	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	- .4749712E+04	- .1017190E+06	- .2721379E+05	.9299741E+04	.9781947E+03	.1688530E+04	.5647954E+04	- .5693571E+06
X(19)	- .1017190E+06	- .1024084E+09	- .1989113E+08	.3475805E+08	.3090887E+05	.4068456E+05	.1680558E+05	- .3347739E+08
DC	- .2721379E+05	- .1989113E+08	- .6953040E+07	.8545285E+07	- .4184274E+04	- .8640992E+04	- .3081020E+05	- .7251213E+08
X(18)	- .9299741E+04	- .3475805E+08	- .8545285E+07	.1339493E+08	.7668933E+04	.4411060E+04	.5564045E+05	- .6388813E+07
X(6)	- .9781947E+03	- .3090887E+05	- .4184274E+04	.7668933E+04	.2512644E+03	.3377567E+03	.1790055E+04	- .8750828E+05
X(16)	- .1688530E+05	- .4068456E+04	- .8540992E+04	.4411060E+04	.3377567E+03	.6148356E+03	.1999752E+04	- .2556491E+06
X(26)	- .5647954E+04	- .1680558E+06	- .3081020E+05	.5564045E+05	.1790055E+04	.1999752E+04	.2161892E+06	- .8867596E+06
X(10)	- .5693571E+02	- .3347739E+08	- .7251213E+06	- .6388813E+07	.8750828E+05	- .2556491E+06	.8867596E+06	- .6261708E+09
X(8)	- .2599081E+02	- .1558331E+04	- .3266539E+02	.2842768E+03	.3835197E+01	.1215674E+02	.3623252E+02	- .2525837E+05
X(27)	- .2496488E+05	- .1805491E+06	- .5912258E+06	- .5912258E+06	.9071897E+04	.6829422E+06	- .4588193E+07	
X(11)	- .3888958E+07	- .2826743E+10	- .1030104E+10	- .1245370E+10	.6103168E+06	- .1237754E+07	.6364722E+07	- .6405095E+08
X(23)	- .3537192E+07	- .1467644E+11	- .2712884E+10	- .4925241E+10	.8579765E+07	- .1318958E+08	.3240699E+08	- .7052198E+10
X(13)	- .6739001E+06	- .5103202E+08	- .3671897E+07	- .5704995E+07	.1177221E+06	- .1819265E+06	.9537315E+08	- .1627194E+09
X(28)	- .1612344E+02	- .6397790E+04	- .2031626E+04	- .3205222E+04	.6239728E+01	.3475734E+02	.2733531E+05	- .2356246E+06
X(25)	- .1169282E+11	- .2321775E+13	- .1264664E+13	- .1335540E+13	.1902723E+10	- .4509800E+10	- .1725601E+11	- .7511333E+13
X(20)	- .7287811E+04	- .6718867E+07	- .2326850E+07	- .2800263E+07	.1101281E+04	- .2134754E+04	.7942732E+04	- .1633340E+07
X(14)	- .3587545E+03	- .1252797E+05	- .1275074E+04	- .2932471E+04	.8665109E+02	- .1292310E+03	.6311918E+03	- .5898374E+05
X(30)	- .8503612E+07	- .2029868E+09	- .4637487E+08	- .63717163E+08	.2468613E+07	.3019824E+07	.2279721E+09	- .1233715E+10
DT	- .5436630E+02	- .1710460E+05	- .4089113E+04	- .9856285E+03	.7850567E+02	- .1583890E+03	.7856419E+05	- .1148277E+06
X(15)	- .2593199E+07	- .2783353E+08	- .3524717E+08	- .1676366E+08	.71857378E+06	.6849105E+06	.2909190E+07	.9104736E+09
X(43)	- .4717709E+04	- .4293791E+09	- .1140918E+09	- .1805679E+09	.1779110E+06	.1999691E+06	.2334446E+08	- .3148750E+09
X(21)	- .6510045E+08	- .1757569E+11	- .8559585E+10	- .9366851E+10	.1067961E+08	- .2398739E+08	.9104666E+08	.3362159E+11
X(47)	- .1250363E+09	- .5348544E+11	- .1489168E+11	- .2392850E+11	.4252987E+08	.4751344E+08	.6216882E+10	- .5278641E+11
X(31)	- .4005444E+05	- .6276935E+09	- .2473324E+09	- .2929204E+08	.8997339E+07	.1451722E+08	.6838171E+09	- .6575873E+10
X(42)	- .1822966E+05	- .1792941E+09	- .5883430E+08	- .8542911E+08	.4898434E+05	.1737513E+05	.8344867E+07	- .9254017E+08
X(46)	- .1253346E+08	- .2385332E+11	- .8465464E+10	- .1208599E+11	.1198825E+08	.5352296E+07	.2104688E+10	- .1404750E+11
X(36)	- .3357589E+09	- .1729179E+12	- .7468366E+11	- .8499428E+11	.5749215E+08	- .1060020E+09	.3179354E+10	- .2327013E+11
MACH	- .1234691E+03	- .70111131E+04	- .3475619E+04	- .3448816E+04	.2706558E+02	.4113499E+02	.1224656E+03	- .4937775E+03

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(8)	X(27)	X(11)	X(23)	X(13)	X(28)	X(25)	X(20)
X(7)	.2590981E+02	.2496488E+05	-.3888958E+07	.3537192E+08	-.6739001E+06	.1612346E+02	-.1169282E+11	-.7297811E+04
X(19)	.1556331E+04	.5024608E+06	.2826743E+10	.1467644E+11	-.5103202E+08	.6397790E+04	.2321775E+13	.6718867E+07
DC	.3266539E+02	-.1805491E+06	.1030141E+10	.2712884E+10	.3671897E+07	.2031626E+04	.1264664E+13	.2236860E+07
X(18)	.2842768E+03	-.5912258E+05	.1246370E+10	.4925241E+10	-.5704939E+07	.3209222E+04	.1335540E+13	.2800263E+07
X(6)	.3835197E+01	.6099276E+04	-.61031168E+06	.8579765E+07	-.1177221E+06	.6239728E+01	-.1902723E+10	.1101281E+04
X(15)	.1215674E+02	.9071897E+04	-.1237754E+07	.1318958E+08	-.1819265E+06	.3476734E+02	-.4509800E+10	.2134754E+04
X(26)	.3622325E+02	.6829423E+06	.6364727E+07	.3240699E+08	.9537315E+08	.2733531E+05	-.1725601E+11	.7942732E+04
X(10)	-.2525837E+05	-.4588193E+07	.6405095E+08	-.7052198E+10	-.1627194E+09	.2356246E+06	.75111333E+13	.1633340E+02
X(8)	.11913369E+01	.2024818E+03	.3396564E+04	.3275756E+06	.6663191E+04	.1065594E+02	.3028548E+09	.7700056E+02
X(27)	.2024818E+01	.2665092E+07	-.3494772E+08	.1116647E+09	.2208755E+09	.7499503E+05	-.8511109E+11	.4826862E+05
X(11)	.3396564E+04	-.3494772E+08	.1847026E+12	.4845872E+12	.1120207E+12	.7149098E+05	.2271706E+15	.3314195E+09
X(23)	.3275756E+02	.1116647E+09	.4845872E+12	.2666334E+13	.1152541E+11	.1324775E+07	.3749819E+15	.9261663E+09
X(13)	.6663191E+04	.2208755E+09	.1120207E+12	-.1152541E+11	.1570980E+12	.2530836E+08	.2467048E+13	.8787407E+06
X(28)	.1065594E+02	.7499503E+05	.7149098E+05	-.1324775E+07	.2530836E+08	.7044514E+04	.2047893E+10	.1102769E+04
X(25)	-.3028548E+09	-.8511109E+11	.2271706E+15	.3748819E+15	.2467048E+13	-.2047893E+10	.5229347E+18	.3557650E+12
X(20)	.7700056E+02	.4826862E+05	.3314195E+09	.9261663E+06	.8787407E+06	.1102769E+04	.3557650E+12	.7341363E+06
X(14)	.2750800E+01	.2288810E+04	-.1877659E+06	.3309760E+07	.2539950E+05	.1519548E+02	-.9561155E+09	.2532212E+03
X(30)	.52778155E+05	.6775621E+09	-.6972805E+10	.5664113E+11	.1929493E+12	.3320928E+08	-.1982055E+14	-.1255201E+08
DT	.3771287E+01	.1949798E+06	.1830384E+06	-.9881878E+07	.7828711E+08	.2011341E+05	-.7299451E+08	.1267255E+04
X(15)	-.4062227E+05	.9395838E+07	-.4929455E+10	.8220464E+10	.1635459E+10	.5772263E+05	.2099881E+13	-.1271722E+08
X(43)	.12339469E+05	.6605717E+08	.1506566E+11	.5252051E+11	.8902123E+10	.3356456E+07	.1117813E+14	.3836819E+08
X(21)	.1360290E+07	-.4457351E+09	.1269683E+13	.2193838E+13	.1022008E+11	.7673697E+07	.2822552E+16	.2446770E+10
X(47)	.1972633E+07	.2065955E+11	.2572142E+13	.9021753E+13	.2176455E+13	.7985723E+05	.1853746E+16	.5027267E+10
X(31)	.2960823E+06	.2518035E+10	-.4574070E+11	.2180729E+12	.4495522E+12	.8595334E+08	-.1185521E+15	.7871792E+08
X(42)	.3132093E+04	.1535658E+08	.8472636E+10	.2221095E+11	.4777689E+10	.1423384E+07	.8546163E+13	.1953044E+08
X(46)	.4263581E+06	.5031334E+10	.1499074E+13	.4064358E+13	.1094996E+13	.3212861E+09	.1516617E+16	.2762365E+10
X(36)	.62147788E+06	-.5032342E+09	.1116173E+14	.2304406E+14	.8697774E+13	.1407121E+10	.1379760E+17	.2392350E+11
MACH	-.3783952E-01	.5702813E+03	-.4816273E+06	-.3496630E+06	-.5835619E+05	-.1446821E+02	-.5965447E+09	-.1115462E+04

FRIDAY, JUL 2, 1976

	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(7)	.3587545E+03	.8503612E+07	-.5436630E+03	.2593199E+07	.4717709E+06	-.6510045E+08	.1250363E+09	.4005044E+08
X(19)	.1252797E+05	.2029868E+09	-.1710460E+05	-.273353E+08	.4293791E+09	-.1757569E+11	.5348544E+11	.6276933E+09
DC	.1275074E+04	.4637487E+08	.4089113E+04	-.3524717E+08	.1140918E+09	.8559585E+10	.1489168E+11	.2873324E+09
X(18)	.2932471E+04	.6371713E+08	.9856285E+03	-.1676366E+08	.1805679E+09	.9266851E+10	.2392850E+11	.2929204E+08
X(6)	.8685309E+02	.2468613E+07	-.7850567E+02	.7185737E+06	.1779110E+06	.1067961E+08	.4252987E+08	.8997339E+07
X(16)	.1292310E+03	.3019824E+07	-.1583890E+03	.6849105E+06	.1995891E+06	.2398739E+08	.4751344E+08	.1451722E+08
X(26)	.6311918E+03	.2279721E+09	.78896419E+05	.2909190E+07	.2334446E+08	.9104666E+08	.6215882E+10	.6838171E+09
X(10)	.5898374E+05	-.1233715E+10	-.1148277E+06	.9104736E+09	.3148750E+09	.3362159E+11	-.5278641E+11	-.6575873E+10
X(8)	.2750800E+01	.5278135E+05	.3771287E+01	-.4062227E+05	.1239469E+05	.1360259E+07	.1972263E+07	.2960823E+06
X(27)	.2288810E+04	.6775621E+09	.1949798E+06	.9395838E+07	.6605717E+08	.4457351E+09	.2065955E+11	.2518035E+10
X(11)	-.18776559E+06	.1932052E+10	.1830384E+06	-.4929455E+10	.1506566E+11	.1269683E+13	.2572142E+13	-.4574070E+11
X(23)	.3309760E+07	.5664113E+11	-.9881878E+07	.8220464E+10	.5252051E+11	.2193838E+13	.3021753E+13	.2180729E+12
X(13)	.25339590E+05	.1929493E+12	.7828711E+08	-.1635459E+10	.8902123E+10	.1022008E+11	.2176455E+13	.4495522E+12
X(28)	.1519548E+02	.3320928E+08	.2011341E+05	.5772263E+06	.3356456E+07	.7573697E+07	.7985723E+09	.8595334E+08
X(25)	.9561155E+09	.1992055E+14	.7295451E+08	.2099881E+13	.1117813E+14	.2822552E+16	.1863746E+16	-.1185521E+15
X(20)	.2532212E+03	.1255201E+04	.1267255E+04	-.1271722E+08	.3836819E+08	.2446770E+10	.5027267E+10	-.7871792E+08
X(14)	.3219542E+02	.8775140E+05	-.1861254E+02	.1680767E+06	.7618513E+05	.4913547E+07	.1659512E+09	.3384319E+07
X(30)	.8775140E+06	.3659539E+12	.9703430E+08	.4378608E+10	.2258749E+11	.1145494E+12	.5906291E+13	.1022895E+13
DT	.1861254E+02	.9703430E+08	.6235743E+05	-.1135665E+07	.8251424E+07	.1998083E+07	.2044837E+10	.2298835E+09
X(15)	.1680757E+06	.4378608E+10	-.1135665E+07	.6125532E+10	-.4855935E+09	.1398400E+11	-.1893975E+11	.1615675E+11
X(43)	.7618513E+05	.2258749E+11	.8251424E+07	-.4855935E+09	.4305757E+11	.9477183E+11	.6191575E+13	.6071001E+11
X(21)	-.4913547E+07	-.1145494E+12	.1998083E+07	-.1398400E+11	.9477183E+11	.1812443E+14	.1143453E+14	-.6520810E+12
X(47)	.1659512E+08	.5906291E+13	.2048437E+10	-.1893975E+11	.6191575E+13	.1143453E+14	.1141174E+16	.1844567E+14
X(31)	.3384319E+07	.1022895E+13	.2298351E+09	.1615675E+11	.6071001E+11	.6520810E+12	.1844567E+14	.3449943E+13
X(42)	.2049166E+05	.8894796E+10	.4008789E+07	-.2767700E+09	.1520378E+11	.6298029E+11	.2201056E+13	.1594479E+11
X(46)	.4451932E+07	.2197865E+13	.9254347E+09	-.2538335E+11	.2231552E+13	.8748408E+13	.4053330E+15	.4924512E+13
X(36)	-.1720714E+08	.8167273E+13	.4339578E+10	-.4783804E+12	.8276673E+13	.9232574E+14	.1178666E+16	.9768867E+13
MACH	.8815947E+01	.1887999E+06	-.4281239E+02	.1194781E+06	-.4564462E+05	-.4339974E+07	-.3705056E+07	.9359138E+06

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(42)	X(46)	X(36)	MACH
X(7)	.1822966E+05	.1253346E+08	.3357589E+09	.1234691E+03
X(19)	.1792941E+09	.2383532E+11	.1729179E+12	-.7011131E+04
DC	.5925340E+08	.8465464E+10	.7468366E+11	-.3475619E+04
X(18)	.8542911E+08	.1208599E+11	.8495428E+11	-.3448816E+04
X(6)	.4898434E+05	.1198825E+08	.5749215E+08	.2706558E+02
X(16)	.1737513E+05	.5352296E+07	-.1060020E+09	.4113499E+02
X(26)	.8344867E+07	.2104688E+10	.3179354E+10	.1224656E+03
X(10)	-.9254017E+08	-.1404750E+11	-.2327013E+11	.4937775E+03
X(8)	.3132093E+04	.4263581E+05	.6214788E+06	-.3783952E+01
X(27)	.1535658E+08	.5031334E+10	-.5032342E+09	.5702813E+03
X(11)	.8472636E+10	.1499074E+13	.1116173E+14	-.4816273E+06
X(23)	.2321095E+11	.4064358E+13	.2304406E+14	-.3496630E+06
X(13)	.4777659E+10	.1094596E+13	.8657774E+13	-.5335619E+05
X(28)	.1422338E+07	.2212861E+09	.1407121E+10	-.1446821E+02
X(25)	.8546163E+13	.1516617E+16	.1379760E+17	.5965447E+09
X(20)	.1953044E+08	.2762355E+10	.2392350E+11	-.1115462E+04
X(14)	.2049168E+05	.4451932E+07	-.1720714E+08	.8815947E+01
X(30)	.8894793E+10	.2197656E+13	.8167273E+13	.1887999E+06
DT	.4008793E+07	.9254347E+09	.4339578E+10	-.4281239E+02
X(15)	-.2765700E+09	-.2538335E+11	-.4783804E+12	.1194781E+06
X(43)	.1520378E+11	.2231552E+13	.8276673E+13	-.4564462E+05
X(21)	.6298029E+11	.8748408E+13	.9232574E+14	-.4339974E+07
X(47)	.2201056E+13	.4053330E+15	.1178666E+16	-.3705056E+07
X(31)	.1594479E+11	.4524512E+13	.9768867E+13	.9359138E+06
X(42)	.5184006E+10	.9259635E+12	.3896890E+13	.2632240E+05
X(46)	.9259635E+12	.1696960E+15	.5859345E+15	-.3135273E+07
X(36)	.3856890E+13	.5859345E+15	.4144584E+16	-.3913104E+08
MACH	-.2632240E+05	-.3135273E+07	-.3913104E+08	.4880598E+01

FRIDAY, JUL 2, 1976

INVERSE OF THE COVARIATES
CROSS PRODUCT MATRIX
FOR TOTAL.

	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	.1805690E+00	-.1279419E-05	.5925235E-03	.2750268E-04	-.1942312E+00	-.4842312E+00	-.1440138E-04	.5546244E-04
X(19)	-.1279419E-05	.2595973E-06	.9854195E-07	-.5194270E-06	.4290104E-04	-.1736215E-06	-.4571174E-07	.4035170E-08
DC	.5925235E-03	.9854195E-07	.1012270E-03	-.3284381E-05	.9627741E-04	-.1688369E-02	.3208796E-05	.7436685E-06
X(18)	.2750268E-04	-.5194270E-06	.3284381E-05	.2605884E-05	-.2644107E-03	-.8310428E-05	.1505982E-05	-.1002404E-07
X(6)	-.1942312E+00	.4290104E-04	.9627741E-04	-.2644107E-03	.1803979E+01	.6585945E+00	.1451508E-03	.4658693E-04
X(16)	-.4842312E+00	-.1736215E-06	.1688369E-02	-.8310428E-05	.6585945E+00	.1328363E+01	-.1433170E-03	.1398136E-03
X(26)	-.1440138E-04	-.4571174E-07	.3208796E-05	.1505982E-05	-.1451508E-03	-.1433170E-03	.2490385E-03	-.2602809E-07
X(10)	.5546244E-04	.4025170E-08	.7436685E-06	-.1002404E-07	.4658693E-04	-.1398136E-03	.2602809E-07	.3984255E-07
X(8)	.9284808E+00	.1292375E-03	.188038E-01	.5260747E-03	.3740625E-01	-.2129613E+01	.1443228E-02	.8960383E-03
X(27)	.1413863E-04	-.2695961E-07	.7849810E-06	.3375275E-06	-.3273448E-05	.1505588E-04	.5350643E-04	.6715670E-08
X(11)	.9519618E-07	.3654578E-07	.3307169E-07	.3200140E-07	.3735258E-06	.4099592E-07	.6169556E-08	.2426763E-09
X(23)	-.2432146E-07	.80697383E-09	.5005329E-08	-.4026358E-09	.6695661E-07	-.2291904E-07	.1509494E-08	-.1510686E-10
X(13)	-.8345605E-07	.8068999E-10	.4022520E-08	.5416500E-09	.5416500E-09	.4999505E-08	.1174147E-06	-.1022385E-11
X(28)	-.2083866E-03	.1746873E-06	.8383262E-05	-.1945898E-05	.5605108E-02	.1755696E-02	.7778316E-04	.4218987E-06
X(25)	-.1362072E-10	-.7044569E-12	.1134631E-10	-.2238820E-12	.2312311E-09	-.7497598E-11	.1349461E-11	-.1528189E-12
X(20)	-.1649435E-02	-.13163228E-05	-.25423258E-03	.4884622E-05	.5086029E-03	.4550925E-02	.2862484E-05	.20231300E-05
X(14)	.5678594E+00	-.6307761E-04	.1700244E-03	.3643210E-03	.5389496E+01	-.2001114E+01	.1107184E-02	-.1380910E-03
X(30)	.1558744E-06	.3328702E-10	.1374935E-08	-.2989580E-09	.8881141E-06	.5131746E-07	-.2013776E-06	.2573941E-11
DT	.78225594E-04	.9088263E-07	.2199468E-05	.6153305E-06	-.1809987E-02	-.4940535E-03	.1668583E-03	-.1284601E-06
X(15)	-.1721661E-04	-.3432308E-09	.8161982E-07	.5464424E-08	.3636145E-04	.4108211E-04	.5593814E-08	.8322185E-08
X(43)	.1776838E-06	.3730946E-08	.11220272E-07	.5312621E-08	.9969163E-07	-.5276380E-06	.4715036E-07	.7964528E-10
X(21)	-.7114305E-07	.1016373E-09	-.1191559E-07	.8957122E-10	.9261640E-07	.1846019E-06	.6211459E-11	-.7768946E-10
X(47)	-.7261903E-09	.1642856E-10	.7742801E-10	-.3209327E-11	.1460189E-09	.3290999E-08	.5916018E-09	.5343479E-12
X(31)	-.4269646E-07	-.5437438E-11	-.4033986E-09	.1182452E-09	.2004168E-06	-.1469162E-07	.4272260E-07	.4480989E-12
X(42)	.6136074E-06	.1119125E-07	.2998046E-07	-.2404051E-07	.8842105E-06	.1421895E-05	.4950622E-07	-.2090179E-09
X(46)	.1193123E-08	-.4147775E-10	.2435943E-09	.8352884E-11	.2354807E-08	-.6036781E-08	-.1573735E-08	.1220262E-11
X(36)	.1732726E-09	-.1439430E-11	-.1224284E-10	.1063728E-10	.5927904E-09	-.3139213E-09	.9924644E-10	.2632877E-13

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(8)	X(27)	X(11)	X(23)	X(13)	X(28)	X(25)	X(20)
X(7)	.9284808E+00	.1413863E-04	.9519618E-07	-.2432146E-07	-.8345605E-07	-.2083866E-03	-.1362072E-10	-.1649435E-02
X(19)	.1292375E-03	-.2695961E-07	.3654478E-08	-.8097383E-09	.8068999E-10	.1746873E-06	-.7044569E-12	-.1316328E-05
DC	.1888038E-01	.7849810E-06	-.3307169E-07	.5003529E-08	.4102250E-09	.8383262E-05	.1134631E-10	-.2543258E-03
X(18)	-.5260747E-03	-.3357275E-06	.8200140E-09	-.4026358E-09	-.6016236E-09	-.1945898E-05	-.2238820E-12	-.4884622E-05
X(5)	.3740625E-01	.3273489E-05	-.3735258E-06	.6695561E-07	.5416500E-06	.5605108E-02	.2312311E-09	.5086029E-03
X(16)	-.21295613E-01	.1508588E-04	.4039592E-07	-.2291904E-07	.4998505E-08	.1755696E-02	-.7497598E-11	.4550925E-02
X(26)	-.1443328E-02	-.5350643E-04	.6169556E-08	-.1509494E-08	.1174147E-06	.7778316E-04	.1349461E-11	.2862484E-05
X(10)	.89660383E-03	.6715670E-08	.2426763E-09	-.1510686E-10	-.1022385E-11	.4218987E-06	-.1528189E-12	-.2023300E-05
X(8)	.28564933E-02	.4087678E-03	-.1025663E-05	.25567367E-06	-.2502341E-07	.1393630E-01	.5723193E-09	-.4972420E-01
X(27)	.4087678E-03	.1435453E-04	-.1610525E-08	.6062864E-09	.1764175E-07	.2665892E-04	-.6709255E-12	-.7752917E-06
X(11)	-.10265633E-02	.1610525E-08	.2072483E-09	-.2674574E-10	-.3779356E-12	.2511385E-08	-.7121687E-13	.5189294E-08
X(23)	.25687357E-06	.6062864E-09	-.2674574E-10	.6453521E-11	.9682093E-13	.1438484E-08	.5439447E-14	-.2604800E-08
X(13)	-.2502341E-07	-.1764175E-07	-.3779356E-12	.9582093E-13	.1260855E-09	.3832140E-08	.3305898E-15	-.1113300E-08
X(28)	-.1393630E-01	.2665892E-04	-.2511385E-08	.1438484E-08	.3832140E-08	.2614244E-02	-.9951003E-12	-.1304390E-04
X(25)	.5723193E-09	.6708255E-12	.7121687E-13	.5419447E-14	.3305898E-15	.9951003E-12	.4424345E-16	-.1960084E-11
X(20)	.4972420E-01	.7752917E-06	.5189294E-08	-.2504800E-08	-.1113300E-08	.1304390E-04	.1960084E-11	.6823233E-03
X(14)	.1151439E-02	-.1804652E-03	.9083692E-06	-.1299564E-06	-.4474167E-07	.1714163E-01	.6367017E-09	-.1953209E-02
X(30)	-.1625134E-06	.4241299E-07	.7078291E-12	.3798337E-13	-.1352909E-09	.1567089E-08	-.1037246E-14	-.2932178E-08
DT	.4753320E-02	.3016900E-04	.6227083E-09	-.3597066E-09	-.1114777E-06	.8465884E-03	.2162253E-12	.3226307E-05
X(15)	-.2238427E-03	.5553514E-05	.2181802E-10	-.3098412E-11	-.1286904E-11	.3393345E-06	-.1418820E-13	.1844912E-06
X(43)	.1577757E-05	.2160898E-07	-.5211352E-10	.1493763E-10	-.1422788E-10	.5151298E-07	-.1344959E-13	-.1055830E-07
X(21)	-.2204124E-05	.5415094E-10	.1055452E-10	-.8346621E-12	.2380517E-14	.2172726E-08	-.6630211E-14	-.2702271E-07
X(47)	.6853825E-08	-.2362376E-09	.4275154E-12	.1004151E-12	.2305488E-14	.1722405E-10	.7964754E-16	.3451874E-10
X(11)	.8654252E-07	-.1125484E-07	-.2339062E-12	.5345525E-13	.2055479E-10	.3582350E-08	.3369256E-15	.7364643E-09
X(42)	-.2716825E-05	-.3260007E-07	.2228480E-09	.3613872E-10	.7454160E-10	.3302090E-07	.3081990E-13	.2560216E-07
X(46)	.2036910E-07	.5643495E-09	-.1560272E-11	.2549396E-12	.6085509E-14	.1835654E-09	-.1482772E-15	-.2507077E-10
X(36)	.1150451E-09	-.2331979E-10	.7406234E-14	-.1543652E-14	-.6791791E-13	-.3872952E-11	-.4772593E-17	-.5945417E-11

FRIDAY, JUL 2, 1976

	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(7)	.5678594E+00	-.1558744E-06	.7822594E-04	-.1721661E-04	-.1776838E-06	-.7114305E-07	-.7261903E-09	-.4269646E-07
X(19)	-.6307761E-04	.3328702E-10	-.9082633E-07	.3432308E-09	-.3730945E-08	.1016373E-09	.1542856E-10	-.5437438E-11
DC	.1700244E-03	.1374935E-08	-.2199468E-05	-.8161982E-07	.1122072E-07	-.1119155E-07	.7742801E-10	-.4033986E-09
X(18)	.3643210E-03	-.25889680E-09	.6153305E-06	.5464424E-08	.5312621E-08	.8957122E-10	-.3209327E-11	.1182452E-09
X(6)	-.5389496E+01	.8881141E-06	-.1809987E-02	-.3636145E-04	-.9969163E-07	.9261640E-07	.1460189E-09	.2004168E-06
X(16)	-.2001114E+01	.5131746E-07	-.4940535E-03	.4108211E-04	-.5276380E-06	.1846019E-06	.3290999E-08	-.1469162E-07
X(26)	-.1107184E-02	-.2013775E-06	-.1668583E-03	.5593914E-08	-.4715036E-07	-.6211459E-11	.5916018E-09	-.4272260E-07
X(10)	-.1380910E-03	-.2573941E-11	-.1284601E-06	.9322185E-08	.7964528E-10	-.7768946E-10	.5343479E-12	-.4480989E-12
X(8)	-.1151439E+02	.1625134E-06	.4753320E-02	-.2238427E-03	-.1577757E-05	-.2204124E-05	.6853825E-08	.8654252E-07
X(27)	-.1804652E-03	.4241299E-07	.3016900E-04	.5553514E-09	.2160898E-07	.5415094E-10	.2362376E-09	-.1125484E-07
X(11)	.9083692E-06	.7078291E-12	.6227083E-09	.2181802E-10	.6211352E-10	.1065452E-10	.4275154E-12	-.2339062E-12
X(23)	-.1129964E-06	.3798337E-13	-.3597066E-09	.3058412E-11	.493763E-10	.8346621E-10	.1004151E-12	-.5345525E-13
X(13)	.4474167E-07	-.1352909E-09	-.1114777E-06	.1286904E-11	-.1422788E-10	.2380517E-14	.2306488E-14	-.2055478E-10
X(28)	-.1714163E-01	-.1567088E-08	-.3465884E-03	-.3393345E-06	-.5151298E-07	-.2172726E-08	-.1722405E-10	-.3582350E-08
X(25)	-.6367017E-09	-.1037246E-14	.2162253E-12	-.1418820E-13	-.1344959E-13	-.6630211E-14	.7964754E-16	-.3369256E-15
X(20)	-.1953209E-02	-.2932178E-08	.3226307E-05	.1844912E-06	-.1055830E-07	.2702271E-07	.3451874E-16	.7364643E-09
X(14)	.1647749E+02	.2243974E-06	.5032009E-02	.1060398E-03	.3164461E-06	.2559392E-06	-.5877892E-09	-.7405345E-07
X(30)	-.2243974E-06	-.2238888E-09	-.1235738E-06	.9510432E-11	.6939103E-11	.2058821E-14	.6790535E-13	-.4772507E-10
DT	.5032009E-02	.1235738E-06	.4017511E-03	.1039312E-06	.2348072E-07	.63559152E-09	.1491133E-10	-.1776675E-07
X(15)	.1060396E-03	.9510432E-11	.1039312E-06	.4087075E-08	.2042086E-10	.1556811E-10	.5601059E-13	-.2249716E-11
X(43)	-.3164461E-06	.6829103E-11	.2348072E-07	.2042086E-10	.1223598E-08	.1705945E-11	.5780015E-11	-.2582517E-11
X(21)	.2559392E-06	.2058821E-14	.6355352E-09	.1556811E-10	.1705946E-11	.2268298E-11	.1073850E-13	-.1116615E-13
X(47)	-.5877892E-09	.6790535E-13	-.1491133E-10	.5601059E-13	.6780015E-11	.1073850E-13	.4791219E-13	-.3228244E-13
X(31)	.7405345E-07	.4773507E-10	-.1776675E-07	-.2249716E-11	.2582517E-11	.1116615E-13	.3228244E-13	-.1279718E-10
X(42)	.6700193E-06	.8597926E-11	-.2215442E-07	.8248073E-10	.3443503E-08	.3466645E-11	.1789526E-10	-.4103278E-11
X(46)	-.6682498E-08	.9851525E-13	-.1985992E-10	-.2273242E-12	.1805829E-10	.2320057E-13	.1244939E-12	-.5377692E-13
X(36)	.1907301E-09	-.2773530E-13	-.1704882E-11	-.1960985E-13	.1885821E-12	.2868227E-15	.2718605E-15	.1275584E-13

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(42)	X(46)	X(36)
X(7)	- .6136074E-06	.1193123E-08	.1732726E-09
X(19)	.1119125E-07	-.4147775E-10	-.1439430E-11
DC	-.2998046E-07	.2435943E-05	-.1224284E-10
X(18)	-.2404051E-07	.8352884E-11	.1063728E-10
X(6)	.8842105E-06	.2354807E-08	-.5927904E-09
X(16)	.1421895E-05	.6036781E-08	-.3139213E-09
X(26)	.4950622E-07	-.1573735E-08	.9924644E-10
X(10)	-.2090179E-09	.1220262E-11	.2632877E-13
X(8)	-.2716825E-05	.2036910E-07	.1150451E-09
X(27)	-.3260007E-07	.5643495E-09	-.2331979E-10
X(11)	.2228480E-09	-.1560272E-11	.7408234E-14
X(23)	-.3613872E-10	.2549396E-12	-.1543652E-14
X(13)	.7454160E-10	.6085509E-12	-.6791791E-13
X(28)	.3302090E-07	.1835654E-09	-.3872952E-11
X(25)	.3081990E-13	-.1482772E-15	-.4772593E-17
X(20)	.2560216E-07	-.2507077E-10	-.5945417E-11
X(14)	.6700193E-06	.6682498E-08	.1907301E-09
X(30)	.8587926E-11	.9851525E-13	-.2773530E-13
DT	-.2215442E-07	.1985992E-10	-.1704882E-11
X(15)	.8248073E-10	-.2273242E-12	-.1960985E-13
X(43)	-.3434503E-08	.1805829E-10	.1885821E-12
X(21)	-.3466645E-11	.2320057E-13	.2866227E-15
X(47)	.1789526E-10	-.1244939E-12	.2718605E-15
X(31)	-.4103278E-11	-.5377692E-13	.1275584E-13
X(42)	-.1102816E-07	-.5377054E-10	-.1185524E-11
X(46)	-.5377054E-10	.3655458E-12	-.6275740E-15
X(36)	-.1185524E-11	-.6275740E-15	.1172471E-14

FRIDAY, JUL 2, 1976

INVERSE OF THE COVARIATES
CROSS PRODUCT MATRIX
FOR TREATMENT.

	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	-.4959632E+12	.9370779E+10	-.6751082E+10	.4306199E+11	-.3702278E+12	-.6963063E+12	-.2264707E+11	-.5631567E+09
X(19)	-.3233487E+09	-.8661509E+07	-.1566525E+08	-.4408843E+08	-.5107531E+09	-.1141160E+10	.2198030E+08	.4033542E+06
DC	.6810264E+10	.1210469E+09	.1165030E+09	.5600272E+09	-.5681295E+10	-.7824260E+10	-.2540004E+09	-.7816538E+07
X(18)	.1254264E+11	.2390401E+09	.1668691E+09	.1057145E+10	.9497402E+10	-.1801009E+11	-.6199537E+09	-.1490847E+08
X(6)	-.5878872E+12	-.1169100E+11	-.9555249E+10	-.5178949E+11	-.4049040E+12	.8966981E+12	.2982424E+11	.6901851E+09
X(16)	.2529721E+13	.4843505E+11	.3907659E+11	.2266019E+12	-.1801771E+13	.3777301E+13	.1203665E+12	.3002356E+10
X(26)	.7710690E+11	.1474596E+10	.1108272E+10	.6788124E+10	-.5528809E+11	-.1112331E+12	.3562238E+10	.9138234E+08
X(10)	-.5594548E+09	-.1082682E+08	-.9445522E+07	-.5044426E+08	.4201482E+09	.8307633E+09	.2457267E+08	.7191077E+06
X(8)	.1336406E+13	.2542144E+11	.2890731E+11	.1278382E+12	-.1068475E+13	-.2118980E+13	-.5280607E+11	-.1705932E+10
X(27)	.1599750E+11	.3171459E+09	.2183715E+09	.1423343E+10	-.1103599E+11	-.2344621E+11	-.8267661E+09	-.1967492E+08
X(11)	-.3672906E+08	-.7140256E+06	-.6315962E+06	-.3381946E+07	.3057918E+08	.4946337E+08	.1580286E+07	.4639049E+05
X(23)	.6028660E+09	-.1163715E+07	-.9316048E+06	-.5420859E+07	.4531525E+08	.9098721E+08	.2961091E+07	.7216719E+05
X(13)	.1036238E+08	.2173259E+06	.2375033E+06	.1066960E+07	.7688641E+07	-.1602644E+08	-.6409505E+06	-.1649601E+05
X(28)	.8736661E+10	.9481226E+08	.1439931E+09	.4691823E+09	-.1070780E+11	-.7058914E+10	.2341034E+09	.5496351E+07
X(25)	.4759605E+05	-.8770111E+03	-.5693231E+03	-.3934083E+04	.3788480E+05	.5561141E+05	.1874241E+04	.5403432E+02
X(20)	.4367830E+11	.8349142E+09	.5884878E+09	.1851683E+10	.3052628E+11	.6216007E+11	.2283720E+10	-.5242574E+08
X(14)	-.3340232E+13	-.6288123E+11	-.5120345E+11	-.3006918E+12	.2469013E+13	.4935661E+13	.1584406E+12	.3827645E+10
X(30)	.1626785E+08	.3176964E+06	.3074939E+06	.1575379E+07	-.1175718E+08	-.2619405E+08	-.7966281E+06	-.1996577E+05
DT	-.1947064E+11	-.3698681E+09	-.3793511E+09	-.1830013E+10	.1522503E+11	.2919127E+11	.9537569E+09	.2329063E+08
X(15)	-.2389900E+09	-.4421717E+07	-.3470624E+07	-.2164803E+08	.1620521E+09	.3664334E+09	.1252011E+08	.2880767E+06
X(43)	-.8272217E+09	-.1600561E+08	-.1196221E+08	-.7361415E+08	.6066439E+09	.1208814E+10	.3825663E+08	.9788337E+06
X(21)	-.6965436E+07	-.1242574E+06	-.8442461E+05	-.5503746E+06	.5446783E+07	.8655013E+07	.2587335E+06	.7671997E+04
X(47)	.4138924E+06	.8037883E+04	.7445426E+04	.3494618E+05	-.3788676E+06	-.3907561E+06	-.1665659E+05	-.419254E+03
X(31)	-.1644810E+08	-.3142826E+06	-.2249955E+06	-.1445845E+07	.1184562E+08	.2331717E+08	.7686120E+06	.1959393E+05
X(42)	-.8071335E+09	-.1573790E+08	-.1302039E+08	-.7356582E+08	.5525694E+09	.1259853E+10	.4115620E+08	.9896553E+06
X(46)	.8211904E+06	.1531388E+05	.1416797E+05	.7395067E+05	-.5545569E+06	-.1577298E+07	-.2982601E+05	-.7993667E+03
X(36)	.4736797E+06	.9222122E+04	.7962371E+04	.4514209E+05	-.3240090E+06	-.8019868E+06	-.2425874E+05	-.6092046E+03

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(8)	X(27)	X(11)	X(23)	X(13)	X(28)	X(25)	X(20)
X(7)	- .2002429E+13	- .2985424E+11	.1604164E+08	.3095175E+08	- .2433457E+08	.1699160E+12	- .9182862E+05	.6545120E+11
X(19)	.1831907E+10	.2315257E+08	- .1691604E+05	- .3817185E+05	.5374760E+05	- .1601820E+09	.9341983E+02	- .4516325E+08
DC	- .2626865E+11	- .4004610E+09	.1071312E+06	.3822814E+06	- .2977076E+06	.2099521E+10	- .1285204E+04	.8340414E+09
X(18)	- .4984536E+11	- .7973718E+09	.2100113E+06	.81222200E+06	- .5644332E+06	.4246826E+10	- .2435694E+04	.1670161E+10
X(6)	.2392356E+13	.3740983E+11	- .1254688E+08	- .3718634E+08	.2881304E+08	- .2099535E+12	.1139113E+06	- .7238160E+11
X(16)	- .1043065E+12	- .1570782E+12	.6332655E+08	.1643470E+09	- .1223854E+09	.8786968E+12	- .4861678E+06	.3258642E+12
X(26)	- .3195328E+12	- .4751206E+10	.2301594E+07	.4973812E+07	.3690420E+07	.2673850E+11	- .1464757E+05	.9852710E+10
X(10)	- .2240251E+10	- .3536819E+08	.7232564E+04	- .3589590E+05	.2373448E+05	- .1931437E+09	.1110278E+03	- .7498348E+08
X(8)	- .5027894E+13	- .8183075E+11	- .2244861E+08	.8164712E+08	.8654627E+08	.4690822E+12	- .2528315E+06	.1784540E+12
X(27)	.7024868E+11	- .9823960E+09	.6532230E+06	.1030385E+07	.7982607E+06	.5736637E+10	- .3044832E+04	.2018099E+10
X(11)	.1375020E+09	.2356519E+07	.6511383E+03	- .2356988E+04	.1829409E+04	- .1286966E+08	.7054737E+01	.5145190E+07
X(23)	.2477215E+09	.3792075E+07	- .1595652E+04	- .3918430E+04	.2818952E+04	- .2118515E+02	.1152128E+02	- .7821382E+07
X(13)	- .4797717E+07	- .8475109E+06	- .3422566E+03	.7184687E+03	.9053065E+02	.3803917E+07	- .2401332E+01	.1381031E+07
X(28)	- .2106445E+11	- .4881165E+08	.9694681E+06	- .3510108E+06	.8493837E+06	.2152937E+05	- .6262139E+03	.1627418E+10
X(25)	.1958964E+03	.2748507E+04	- .1413019E+01	- .2857405E+01	.1955922E+01	.1545706E+05	.8885133E+02	- .5994887E+04
X(20)	.1808702E+12	- .2794835E+10	.9852885E+06	.2863685E+07	.1666151E+07	.1574160E+11	- .8260205E+04	.5439106E+10
X(14)	.1363670E+14	- .2098944E+12	.7084237E+08	- .2134762E+09	.1611290E+09	.1179074E+13	- .6384312E+06	- .4295406E+12
X(30)	.6592900E+08	- .1037752E+07	.3873330E+03	.1079447E+04	.9394905E+03	.6040153E+07	- .3140288E+01	.2219508E+07
DT	.8139215E+11	.1286968E+10	.2633659E+06	.1263487E+07	.9080533E+06	.7277231E+10	.3830618E+04	.2395052E+10
X(15)	.9503545E+09	.1552262E+08	.5390749E+04	- .1635909E+05	.1117924E+05	.8139804E+08	.4682228E+02	.3146476E+08
X(43)	.3473815E+10	.5137195E+08	.2320152E+05	.5307335E+05	.4022848E+05	.2842974E+09	.1568371E+03	- .1070142E+09
X(21)	.2819293E+08	.3758671E+06	.22299726E+03	- .3534356E+03	.3579572E+03	- .2181379E+07	.1170279E+01	- .9013204E+06
X(47)	- .2024817E+07	- .2625924E+05	.7752519E+01	.2457944E+02	.1634671E+02	.1332935E+05	- .8207904E+01	.4373812E+05
X(31)	.6706773E+08	.9498213E+06	.6089014E+03	- .1031763E+04	.8695537E+03	- .5432213E+07	.3047307E+01	- .2182064E+07
X(42)	.3291585E+10	.5161062E+08	.2283862E+05	.5420993E+05	.4120930E+05	.28995980E+09	.15611883E+03	- .1029388E+09
X(46)	- .2757931E+07	- .4632135E+05	.3217297E+02	.5739695E+02	.6021727E+02	.2873522E+06	- .1341998E+00	.1106136E+06
X(36)	- .1738764E+07	- .3123162E+05	.1590183E+02	.3107857E+02	.2586751E+02	.1675140E+06	- .9394191E-01	.6513106E+05

FRIDAY, JUL 2, 1976

	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(7)	- .6502847E+13	- .3087522E+08	.1803929E+11	- .9837842E+08	- .4053744E+09	- .2593490E+08	.2698618E+07	.1869299E+08
X(19)	.6145113E+10	.6047135E+05	- .1054406E+08	.2320879E+06	.1437159E+06	.1895128E+05	- .3220300E+04	- .2175504E+05
DC	- .8782033E+11	- .3747812E+06	.2077039E+09	- .5635402E+06	.5379410E+07	.3631051E+06	.3542603E+05	.2370550E+06
X(18)	- .1576045E+12	- .7174972E+06	.4585847E+09	- .2095643E+07	.9820027E+07	- .65041138E+06	.6939427E+05	.4606007E+06
X(6)	.7960248E+13	.3771702E+08	- .2213304E+11	.7795950E+08	.5005220E+09	.3210687E+08	- .3445312E+07	.2283926E+08
X(16)	.3379556E+14	- .1610293E+09	.9571738E+11	- .4208593E+09	- .2104192E+10	.1342658E+09	.1459289E+08	.9643154E+08
X(26)	- .1021565E+13	- .4802284E+07	.2894279E+10	.1324143E+08	.6577140E+08	.4090328E+07	.4228085E+06	.2965050E+07
X(10)	.7488878E+10	.3408596E+05	.22299178E+08	.6777596E+05	.4686568E+06	.3065858E+05	- .3129465E+04	.1879746E+05
X(5)	.1839326E+14	- .9857531E+08	.4549655E+11	- .2211176E+09	.1126306E+10	.7332469E+08	.7763380E+07	.5110387E+08
X(27)	- .2134490E+12	- .1005659E+07	.6163084E+09	- .2681408E+07	.1359106E+08	.8517514E+06	.9377791E+05	.6243403E+06
X(11)	.5149281E+09	- .2350855E+04	- .1176187E+07	.8603092E+04	.2984957E+05	.1924899E+04	- .2142659E+03	- .1423299E+04
X(23)	.8115536E+09	- .3756600E+04	- .2293765E+07	.9742464E+04	.3074717E+05	.3247963E+04	- .3446231E+03	- .2306190E+04
X(13)	- .1555983E+09	- .6449572E+03	.4911054E+05	- .2547926E+02	.8408202E+04	.5697970E+03	.6781122E+02	.4007989E+03
X(28)	.9166143E+11	- .5312941E+06	- .2354653E+09	- .5430649E+07	.5074194E+07	.2440103E+06	.2989902E+05	.5745620E+06
X(25)	.6106520E+06	.2650675E+01	- .1683353E+04	.8747328E+01	.3826960E+02	.2376744E+01	- .2402261E+00	- .1650545E+01
X(20)	- .5856180E+12	- .2413029E+07	.17514567E+10	- .6348575E+07	.3730835E+08	.2342879E+07	.2395630E+06	.1611929E+07
X(14)	.4512225E+14	.2060515E+09	- .1284089E+12	.4803669E+09	.2852888E+10	.17751336E+09	- .1908396E+08	.1248835E+09
X(30)	- .2301216E+09	- .1225274E+04	.6305053E+06	- .2857134E+04	.1466983E+05	.9176416E+03	.1022491E+03	.6727839E+03
DT	.2658334E+12	.1220698E+07	.7303933E+09	.1307471E+07	.180861E+08	.1116171E+07	- .1129523E+06	.7092904E+06
X(15)	.3175457E+10	.1559520E+05	.9812784E+07	.3756215E+05	.1868872E+06	.1318993E+05	- .1379402E+04	.9322298E+04
X(43)	.1110196E+11	.5122120E+05	- .3026304E+08	.1356727E+06	.6925099E+06	.4370457E+05	- .4735884E+04	- .3179649E+05
X(21)	.8458959E+08	.1663444E+03	- .2143172E+06	.1539535E+04	.5460952E+04	.3291773E+03	- .3422337E+02	- .2370583E+03
X(47)	- .56113347E+07	- .1547901E+02	.1724113E+05	.1505952E+02	.3645630E+03	.2196298E+02	.2154914E+01	.1071703E+02
X(31)	.2184497E+09	.1093046E+04	- .5340690E+06	.3725337E+04	.1354524E+05	.8501428E+03	- .9478522E+02	.6635144E+03
X(42)	.1100320E+11	.5357327E+05	- .3408469E+08	.1262052E+06	.6814384E+06	.4392133E+05	- .47622739E+04	- .3124193E+05
X(46)	- .1093844E+08	- .7360118E+02	.1974844E+05	- .2011320E+03	.6425524E+03	.4411892E+02	.4919126E+01	.3183469E+02
X(36)	- .6579870E+07	- .3164880E+02	.1918320E+05	- .9727022E+02	.4089692E+03	.2606725E+02	.2897619E+01	.1916616E+02

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(42)	X(46)	X(36)
X(7)	.5202594E+09	.1322611E+07	-.3632976E+06
X(19)	.1808255E+05	-.2090071E+04	.2482850E+03
DC	.7058588E+07	.1590024E+05	-.4055170E+04
X(18)	.1449920E+08	.2936289E+05	-.8907876E+04
X(6)	-.6646670E+09	-.1529331E+07	.4534332E+06
X(16)	.27395679E+10	.6384681E+07	-.2007430E+07
X(26)	.8496161E+08	.2012106E+06	-.6129098E+05
X(10)	-.6201814E+06	-.1304692E+06	.3908419E+03
X(8)	.1110012E+10	.4592395E+07	-.5892794E+06
X(27)	.1817644E+08	.4143539E+05	-.1532564E+05
X(11)	-.3523132E+05	-.1080656E+03	.2519778E+02
X(23)	-.6737077E+05	-.1496793E+03	.4723610E+02
X(13)	.1531680E+05	.1629196E+02	-.9853841E+01
X(28)	-.3457900E+07	.3218072E+05	-.9740409E+04
X(25)	-.5172614E+02	-.9999324E+01	.3307956E-01
X(20)	.5278559E+08	.9876506E+05	-.3514316E+05
X(14)	-.3661068E+10	.8525086E+07	.24639462E+07
X(30)	.1733716E+05	.4037576E+02	-.1110507E+02
DT	-.2555583E+08	-.5460460E+05	.1498621E+05
X(15)	-.2705934E+06	.6250042E+03	.1853857E+03
X(43)	-.9085275E+06	-.2071217E+04	.6570005E+03
X(21)	-.6555778E+04	-.1796493E+02	.4481834E+01
X(47)	-.5576205E+03	.7558886E+00	-.1977167E+00
X(31)	-.1563652E+05	-.4639033E+02	.1286507E+02
X(42)	-.9225398E+06	-.2115641E+04	.6767175E+03
X(46)	.7045472E+03	.3169200E+01	-.5457477E+00
X(36)	.5086152E+03	.1343408E+01	-.3421887E+00

INVERSE OF THE COVARIATES
CROSS PRODUCT MATRIX
FOR ERROR.

FRIDAY, JUL 2, 1976

	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	.1805863E+00	-.1239565E-05	.5927254E-03	-.2751055E-04	-.1941942E+00	-.4842619E+00	-.1688378E-04	.5546682E-04
X(19)	-.1239565E-05	.2598683E-06	.9900797E-07	-.5194088E-06	.4298629E-04	-.2444398E-06	-.5144130E-07	.4045289E-08
DC	.5927254E-03	.9900797E-07	.1012294E-03	-.3284289E-05	.9670932E-04	-.1688728E-02	.3237822E-05	.7437198E-06
X(18)	.2751055E-04	-.5194088E-06	.3284289E-05	.2605887E-05	-.2643939E-03	.8324424E-05	.1504850E-05	-.1002204E-07
X(6)	-.1941942E+00	.4298629E-04	.9670932E-04	-.2643939E-03	.1804058E+01	.6585289E+00	-.1504610E-03	.4659630E-04
X(16)	.4842619E+00	-.2444398E-06	-.1688728E-02	-.8324424E-05	.6585289E+00	.1328418E+01	-.1389060E-03	.1398214E-03
X(26)	-.1688378E-07	-.5144130E-07	.3237822E-05	.1504850E-05	-.1504610E-03	-.1389060E-03	.2493953E-03	-.2665836E-07
X(10)	.5546682E-04	.4045289E-08	.7437198E-06	-.1002204E-07	.4659630E-04	-.1398214E-03	.2665836E-07	.3984366E-07
X(8)	.9286422E-07	.1296099E-03	.1888227E-01	-.5260011E-03	.3740970E+01	-.2129900E+01	-.1466526E-02	.8960793E-03
X(27)	.1498853E-04	-.2439798E-07	.7549188E-06	-.3353398E-06	.1455433E-05	.1358556E-04	-.5362852E-04	.6931454E-08
X(11)	.9572305E-07	.3655694E-08	.3306553E-08	-.3202544E-09	.3723988E-06	.4005973E-07	.6093813E-08	.2428101E-09
X(23)	-.2459315E-07	-.8103654E-09	.5000352E-08	-.4027593E-09	.6637542E-07	-.2243627E-07	-.1470436E-08	.1517584E-10
X(13)	-.7685311E-07	.9593005E-10	.4874331E-09	-.5986118E-09	.5557746E-06	-.5733390E-08	.1164655E-06	.6540558E-12
X(28)	-.2108836E-03	.1689242E-06	.8354065E-05	.1947037E-05	.5599767E-02	.1760133E-02	.7814213E-04	.4212647E-06
X(25)	-.1362126E-10	-.7044581E-12	.1134630E-10	-.2238822E-12	.2312300E-09	-.7496638E-11	.1349539E-11	-.1528190E-12
X(20)	-.1650180E-02	-.1318049E-05	.2543345E-03	.4884282E-05	.5070856E-03	.4552249E-02	.2969636E-05	.2023489E-05
X(14)	.5677413E+00	-.6335010E-04	.1686439E-03	.3642672E-03	.5389749E+01	-.2000940E+01	.1124157E-02	-.1381210E-03
X(30)	.1577080E-06	.3751919E-10	.1398376E-08	-.2981316E-09	.8841917E-06	.4805922E-07	-.2016412E-06	-.2108392E-11
DT	.5718217E-06	-.1394532E-06	.2445533E-05	.6057315E-06	.1855003E-02	-.4566604E-03	-.1638331E-03	-.1338030E-06
X(15)	-.1722689E-06	-.3531054E-09	.8166985E-07	.5462472E-08	.3637060E-04	.4108971E-04	.6208970E-08	-.9322271E-08
X(43)	.1760712E-06	-.3734668E-08	.1120186E-07	.5311885E-08	-.1031412E-06	.5247725E-05	-.4691854E-07	.7923586E-10
X(21)	-.7116914E-07	-.1015771E-09	.1191590E-07	.8955932E-10	.9267221E-07	.1846482E-05	-.2460916E-11	-.7769608E-10
X(47)	-.7169797E-09	-.1544982E-10	.77322031E-10	-.3205125E-11	.1657217E-09	.3274633E-08	.5902776E-09	.5320094E-12
X(31)	-.4339683E-07	-.7053960E-11	-.4115881E-09	.1179257E-09	.1989186E-06	-.1344711E-07	.4282329E-07	.2702776E-12
X(42)	-.6105766E-06	.1115825E-07	.2994502E-07	-.2403913E-07	.8906938E-06	.1416510E-05	.4907051E-07	.2082484E-09
X(46)	.1187470E-08	-.4149080E-10	.2435282E-09	.8350306E-11	.2342713E-08	.6026735E-08	-.1572923E-08	.1218827E-11
X(36)	.1714323E-09	-.1443678E-11	-.1226436E-10	.1063644E-10	-.5967270E-09	-.3106513E-09	.9951100E-10	.2586154E-13

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(8)	X(27)	X(11)	X(23)	X(13)	X(28)	X(25)	X(20)
X(7)	.9286421E+00	.1498853E-04	.9572305E-07	-.2459315E-07	-.7685311E-07	-.2108836E-03	-.1362126E-10	-.1650180E-02
X(19)	.1295089E-03	-.2499798E-07	.3665694E-08	-.8103654E-08	.9593005E-10	.1689242E-06	-.7044581E-12	-.1318049E-05
DC	.1888227E-01	.7949188E-06	-.3306553E-07	.5000352E-08	.4874331E-09	.8354065E-05	.1134630E-10	-.2542345E-03
X(18)	-.5260011E-03	-.3353398E-05	.8202544E-09	-.4027598E-09	.596118E-09	-.1947037E-05	-.2238322E-12	.4884282E-05
X(6)	.3740970E+01	-.1455433E-05	-.3723988E-06	.6637542E-07	.5557746E-06	.5599767E-02	.2312300E-02	.5070085E-03
X(16)	-.2129900E+01	.1358568E-04	.4005973E-07	-.2243627E-07	-.6733390E-08	.1760133E-02	-.7496638E-11	.4552249E-02
X(26)	-.1466526E-02	-.5362862E-04	.6093813E-08	-.1470436E-08	.1164655E-08	.7814213E-04	.1349539E-11	.2969563E-05
X(10)	.8960793E-03	.6931454E-08	.2428101E-09	-.1517584E-10	.6540583E-12	.4212647E-06	-.1528190E-12	-.2023489E-05
X(8)	.2856643E+02	.4167100E-03	-.1021639E-05	.2541978E-06	.3668037E-07	-.1395953E-01	.5723142E-02	-.4973117E-01
X(27)	.4167100E-03	-.1439636E-08	.5929140E-09	-.1731676E-07	-.2678182E-07	.6709521E-12	-.8119773E-06	
X(11)	-.1021639E-05	-.1584593E-08	.2072644E-09	-.2675403E-10	.1764665E-12	-.2590044E-08	.7121689E-13	.5166552E-08
X(23)	.2541978E-06	.5929140E-09	-.2675403E-10	.6457796E-11	-.7070728E-14	.1477772E-08	.5439456E-14	-.2593073E-08
X(13)	.3668037E-07	-.1731676E-07	.1764665E-12	-.7070728E-14	.1266104E-09	.2877317E-08	.3303831E-15	.8282859E-09
X(28)	-.1395953E-01	-.2678182E-04	-.2590044E-08	.1477772E-08	.2877317E-08	.2614605E-02	.9950221E-12	-.1293612E-04
X(25)	.5723142E-09	-.6709521E-12	-.7121689E-13	.5439456E-14	.3303831E-15	-.9950221E-12	.4424345E-16	-.1960061E-11
X(20)	-.4973117E-01	-.8119773E-06	.5166552E-08	-.2593073E-08	.8282859E-09	-.1293612E-04	.1960061E-11	.6823555E-03
X(14)	-.1151550E+02	-.1862761E-03	.9047669E-06	-.1111388E-06	-.8988714E-07	-.1712456E-01	.6366581E-09	-.1948113E-02
X(30)	-.1453782E-06	.4250225E-07	.7637727E-12	.9132572E-14	-.1345898E-09	-.1832243E-08	.1037303E-14	-.3011327E-08
DT	.4556667E-02	.2913323E-04	-.1938085E-10	-.2860026E-10	-.1195247E-06	-.8435454E-03	.2168840E-12	.4134655E-05
X(15)	-.2238827E-03	.3447747E-09	.2161874E-10	-.3031056E-11	-.2922892E-11	-.3387159E-06	.1418806E-13	.1844659E-06
X(43)	.1562688E-05	.2152961E-07	-.6216273E-10	.1496301E-10	.1484452E-10	.5127979E-07	-.1344954E-13	.10448669E-07
X(21)	-.2204368E-05	.5286687E-10	.1065372E-10	-.8342516E-12	.7595558E-14	-.2168954E-08	.6630210E-14	.2702383E-07
X(47)	.6767753E-08	-.2357843E-09	.4277964E-12	-.1005600E-12	.5828547E-14	-.1855596E-10	.7564725E-16	.3412116E-10
X(31)	.7999757E-07	-.1128931E-07	-.2552762E-12	-.4243541E-13	.2028697E-10	-.3481072E-08	.3369475E-15	.7666958E-09
X(42)	-.2688502E-05	-.3245089E-07	.2229404E-09	.3611864E-10	.7570056E-10	.3258263E-07	.3081980E-13	.2547134E-07
X(46)	.2031627E-07	.5640712E-09	-.1560445E-11	.2550285E-12	.3923600E-14	.1843829E-09	-.1482770E-15	-.2482673E-10
X(36)	.9784788E-10	-.2341037E-10	.7352083E-14	-.1514697E-14	.6862162E-13	-.3606837E-11	-.4772535E-17	-.5865982E-11

FRIDAY, JUL 2, 1976

	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(7)	.5677413E+00	.1577080E-06	.5718217E-04	-.1722089E-04	.1760712E-06	-.7116914E-07	-.7169797E-09	-.4339683E-07
X(19)	-.6335010E-04	.3751919E-10	-.1394532E-06	-.3531054E-09	-.3734668E-08	-.1015771E-09	.1644982E-10	-.7053960E-11
DC	.1686439E-03	.1396376E-08	-.2445533E-05	-.8156985E-07	.1120186E-07	-.1119159E-07	.7732031E-10	-.4115881E-09
X(18)	.3642672E-03	-.2981316E-09	.6057315E-06	.5452472E-08	.5311885E-08	.8955932E-10	-.3205125E-11	.1179257E-09
X(6)	-.5389749E+01	.8841917E-06	-.1855003E-02	-.3637060E-04	-.1031412E-06	-.9267221E-07	.1657217E-09	.1989186E-06
X(16)	-.2000904E+01	.4805822E-07	-.4566604E-03	.4108971E-04	-.5247725E-06	.1846482E-06	.3274633E-08	-.1344711E-07
X(26)	-.1124157E-02	-.2016412E-06	-.1633331E-03	.6208970E-08	.4691854E-07	-.2460916E-11	.5902776E-09	.4282329E-07
X(10)	-.1381210E-03	-.2108392E-11	-.1338030E-06	.9323271E-08	.7923586E-10	-.7769608E-10	.5320094E-12	.2702776E-12
X(8)	-.1151550E+02	-.1453822E-06	.4556667E-02	-.2238827E-03	.1562688E-05	-.2204368E-05	.6787753E-08	.7999757E-07
X(27)	-.1862761E-03	.4250325E-07	.29131323E-04	.3447747E-09	.2152961E-07	.5286867E-10	-.2357843E-09	-.1128931E-07
X(11)	.9047669E-06	.7363772E-12	-.1938085E-10	.2168748E-10	-.6216273E-10	.1065372E-10	.4277964E-12	-.2552762E-12
X(23)	-.1111388E-06	.9132572E-14	-.2860026E-10	-.3031096E-11	.1496301E-10	-.8342516E-12	.1005600E-12	-.4243541E-13
X(13)	-.8988714E-07	-.1345898E-09	-.1195247E-06	-.2922892E-11	-.1484452E-10	.7595558E-14	.5828547E-14	.2028697E-10
X(28)	-.1712455E-01	.1832243E-08	.8433545E-03	-.3387159E-06	.5127979E-07	-.2168954E-08	-.1855596E-10	-.3481072E-08
X(25)	-.6366981E-09	-.1037303E-14	.2168840E-12	-.1418806E-13	-.1344954E-13	-.6630210E-14	.7964725E-16	.3369475E-15
X(20)	-.1948113E-02	-.3011327E-08	.4134655E-05	.1846759E-06	-.1048869E-07	.2702383E-07	.3412116E-10	.7666958E-09
X(14)	.1647830E+02	.2118605E-06	.5175889E-02	.1060688E-03	.3054206E-06	.2561176E-06	.6507637E-09	.6926484E-07
X(30)	.2118605E-06	.2240835E-09	.1213391E-06	.9056117E-11	.6767862E-11	-.7115428E-15	.6692727E-13	.4780945E-10
DT	.5175889E-02	.1213391E-06	.4277971E-03	.1091452E-06	.2544597E-07	.6673293E-09	.2613625E-10	.1691320E-07
X(15)	.1060688E-03	.9056117E-11	.1091452E-06	.4088135E-08	-.2002132E-10	.1557457E-10	.5372852E-13	.2076186E-11
X(43)	-.3054206E-06	.6767862E-11	.2544597E-07	-.2002132E-10	.1232750E-08	.1708382E-11	.6780875E-11	-.2517110E-11
X(21)	.2561176E-06	-.7115428E-15	.6673293E-09	.1557457E-10	.1708382E-11	.2268338E-11	-.1075241E-13	-.1010799E-13
X(47)	-.6507637E-09	.6692727E-13	.2613625E-10	.5372852E-13	.6780875E-11	-.1075241E-13	.4791711E-13	.3190885E-13
X(31)	-.6926484E-07	.4780945E-10	.1691320E-07	-.2076186E-11	-.2517110E-11	.1010799E-13	.3190885E-13	.1282559E-10
X(42)	.6492971E-06	.8919770E-11	.2584806E-07	.8172980E-10	-.3434786E-08	-.3471224E-11	.1789687E-10	-.4226209E-11
X(46)	-.6643843E-08	.9791489E-13	-.1296984E-10	-.2259234E-12	.1805882E-10	.2320911E-13	-.1244969E-12	-.5354761E-13
X(36)	.2033124E-09	-.2793072E-13	.5378614E-12	-.1915389E-13	.1887539E-12	.2894031E-15	.2708788E-15	.1283048E-13

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(42)	X(46)	X(36)
X(7)	-.6105756E-06	.1187470E-08	.1714323E-09
X(19)	.11119825E-07	-.4149080E-10	-.1443678E-11
DC	-.2994502E-07	.2435282E-09	-.1226436E-10
X(18)	-.2403913E-07	.8350306E-11	.1063644E-10
X(6)	.8906938E-06	.2342713E-08	-.5967270E-09
X(16)	.1416510E-05	-.6026735E-08	-.3106513E-09
X(26)	.4907051E-07	-.1572923E-08	.9951100E-10
X(10)	-.2082444E-09	.1218827E-11	.2586154E-13
X(8)	-.2688502E-05	.2031627E-07	.9784788E-10
X(27)	.3245089E-07	.5640712E-09	-.2341037E-10
X(11)	.2229404E-09	-.1560445E-11	.7352083E-14
X(23)	-.3618641E-10	.2550285E-12	-.1514697E-14
X(13)	.7570056E-10	.3923600E-14	-.6862162E-13
X(28)	.3258263E-07	.1843829E-08	-.3606883E-11
X(25)	.3081980E-13	-.1482770E-15	-.4772535E-17
X(20)	.2547134E-07	-.2482673E-10	-.5865982E-11
X(16)	.6492971E-06	-.6643843E-08	.2033124E-09
X(30)	.8919770E-11	.9791489E-13	-.2793072E-13
DT	-.2584806E-07	-.1296884E-10	.5378614E-12
X(15)	.8172980E-10	-.2259234E-12	-.1915389E-13
X(43)	-.3434786E-08	.1805882E-10	.1887539E-12
X(21)	-.3471224E-11	.2320911E-13	.2894031E-15
X(47)	.1789687E-10	-.1244969E-12	.2708788E-15
X(31)	-.4226209E-11	-.5354761E-13	.1283048E-13
X(42)	-.1102869E-07	-.5377153E-10	-.1185847E-11
X(46)	-.5377153E-10	.3655476E-12	-.6269715E-15
X(36)	-.1185847E-11	-.6269715E-15	.1172667E-14

FRIDAY, JUL 2, 1976

ANALYSIS OF COVARIANCE TABLE

SOURCE	DF	YY	SUM-SQUARES (DUE)	SUM-SQUARES (ABOUT)	DF	MEAN-SQUARE
TREATMENT (BETWEEN)	1	.1261130E+00	1	1	1	1
ERROR	768	.4880598E+01	.4872293E+01	.8304637E-02	741	.1120734E-04
(WITHIN)	1	1	1	1	1	1
TREATMENT	1	1	1	1	1	1
+ ERROR	769	.5006751E+01	.4998291E+01	.8419326E-02	742	.1134680E-04
(TOTAL)	1	1	1	1	1	1
DIFFERENCE FOR TESTING ADJUSTED TREATMENT MEANS....	1	.1146886E-03	1	1	1	.1146886E-03

NULL HYPOTHESIS. NO DIFFERENCE AMONG TREATMENTS AFTER
ADJUSTING WITH COVARIATES.

F(1, 741) = 10.233

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF COEFFICIENTS, STANDARD ERRORS AND COMPUTED T-VALUES

TREATMENT (BETWEEN)				
	COEFFICIENT	STAND. ERROR	T-VALUE	CONFIDENCE
X(7)	-.4937500000E+01	.7541970065E+04	-.00065	50.02084
X(19)	-.4592895508E-02			
DC	-.6787109375E-01	.1156418273E+03	-.00059	50.01868
X(18)	-.1411132813E+00	.3547252023E+03	-.00040	50.01266
X(6)	.6468750000E+01	.6814533845E+04	.00095	50.03022
X(16)	-.2812500000E+02			
X(26)	-.8476562500E+00			
X(10)	.5981445313E-02	.9081488889E+01	.00066	50.02097
X(8)	-.1490625000E+02			
X(27)	-.1684570313E+00			
X(11)	.4052652588E-03			
X(23)	.6656846729E-03			
X(13)	-.1373291016E-03			
X(28)	.4394531250E-02	.1571360097E+03	.00003	50.00089
X(25)	-.4954636097E-06	.1009466851E-02	.00049	50.01562
X(20)	-.4980468750E+00	.7888122010E+03	-.00063	50.02007
X(14)	.3600000000E+02	.7193752027E+05	.00050	50.01593
X(30)	-.1864433289E-03			
DT	.2441406250E+00			
X(15)	.2792358398E-02	.2075560238E+01	.00135	50.04282
X(43)	-.8544921875E-02	.8911957283E+01	.00096	50.03052
X(21)	.6556510925E-04	.1943009886E+00	.00034	50.01074
X(47)	-.46789564615E-05	.1572081388E-01	-.00030	50.00947
X(31)	.1649856567E-03			
X(42)	.9552001953E-02			
X(46)	-.8404254913E-05	.1906491555E-01	-.00044	50.01403
X(36)	-.5528330803E-05			

FRIDAY, JUL 2, 1976

TABLE OF COEFFICIENTS, STANDARD ERRORS AND COMPUTED T-VALUES

ERROR (WITHIN)				
	COEFFICIENT	STAND. ERROR	T-VALUE	CONFIDENCE
X(7)	.3555396848E-01	.1422635287E-02	24.99163	100.00000
X(19)	-.2523254642E-04	.1705996823E-05	-14.79050	100.00000
DC	-.4913271300E-03	.3368251169E-04	-14.58701	100.00000
X(18)	-.6687458270E-04	.5404170480E-05	-12.37462	100.00000
X(6)	.51489250312E-01	.4496519181E-02	11.45012	100.00000
X(16)	-.4154925132E-01	.3858500732E-02	-10.76824	100.00000
X(26)	-.5241700453E-03	.5288530737E-04	-9.91464	100.00000
X(10)	.6519163625E-05	.6682375078E-06	9.75576	100.00000
X(8)	-.1640133878E+00	.1785283898E-01	-9.16643	100.00000
X(27)	.1025655275E-03	.1270215885E-04	8.07465	100.00000
X(11)	.3774287055E-06	.4819628854E-07	7.83107	100.00000
X(23)	.6708943609E-07	.8507332046E-08	7.88607	100.00000
X(13)	-.2986294606E-06	.3796551934E-07	-7.86581	100.00000
X(28)	-.1188313456E-02	.1711804908E-03	-6.94187	100.00000
X(25)	.1518984377E-09	.2225771748E-10	6.82146	100.00000
X(20)	.5356671819E-03	.8744934855E-04	6.12546	100.00000
X(14)	-.7681445512E-01	.1358962305E-01	-5.65243	100.00000
X(30)	.2759776148E-06	.50113665554E-07	5.50703	100.00000
DT	.4180496093E-03	.6920971176E-04	6.04033	100.00000
X(15)	-.1114083609E-05	.2140493136E-06	5.20480	99.99999
X(43)	-.5621083340E-06	.1175408116E-06	-4.78224	99.99990
X(21)	-.2218482095E-07	.5042025894E-08	-4.38998	99.99938
X(47)	.2729989349E-08	.7328186723E-09	3.72533	99.98951
X(31)	-.4250676926E-07	.1198919286E-07	-3.54542	99.97917
X(42)	.1104011881E-05	.3515711970E-06	3.14022	99.91224
X(46)	-.4234341895E-08	.2024059184E-08	-2.09200	98.16111
X(36)	.2159724752E-09	.1146406449E-09	1.88391	97.00157

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF COEFFICIENTS, STANDARD ERRORS AND COMPUTED T-VALUES

TREATMENT+ERROR (TOTAL)				
	COEFFICIENT	STAND. ERROR	T-VALUE	CONFIDENCE
X(7)	.3559846990E-01	.1431391022E-02	24.86984	100.00000
X(19)	-.2512983385E-04	.1716274552E-05	-14.64208	100.00000
DC	-.4508067751E-03	.3389103884E-04	-14.48190	100.00000
X(18)	-.6685428365E-04	.5437687156E-05	-12.29462	100.00000
X(6)	.5158089811E-01	.4524310639E-02	11.40083	100.00000
X(16)	-.4162832686E-01	.3882254165E-02	-10.72244	100.00000
X(26)	-.5305676544E-03	.5315815892E-04	-9.98093	100.00000
X(10)	.6530462256E-05	.6723729896E-06	9.71256	100.00000
X(8)	-.1635975263E-01	.1800334763E-01	-9.08706	100.00000
X(27)	.1047558767E-03	.1276236403E-04	8.20819	100.00000
X(11)	.3787865356E-06	.4849335473E-07	7.81110	100.00000
X(23)	.6638924334E-07	.8557268753E-08	7.75823	100.00000
X(13)	-.2816124516E-06	.3782416330E-07	-7.44531	100.00000
X(28)	-.1194748623E-02	.1722303775E-03	-6.93692	100.00000
X(25)	.1518970449E-09	.2240583735E-10	6.77935	100.00000
X(20)	.5337462909E-03	.8798969598E-04	6.06601	100.00000
X(14)	-.7711871951E-01	.1367358043E-01	-5.63998	100.00000
X(30)	.2807032514E-06	.5040259262E-07	5.56922	100.00000
DT	.3638158090E-03	.6751723032E-04	5.38848	100.00000
X(15)	.1103057631E-05	.2153490717E-06	5.12218	99.99998
X(43)	-.5662642552E-06	.1182626572E-06	-4.78819	99.99990
X(21)	-.2225205614E-07	.5073255967E-08	-4.38615	99.99934
X(47)	-.2753726771E-08	.7373263211E-09	3.73475	99.99988
X(31)	-.4431177295E-07	.1205019085E-07	-3.67727	99.99736
X(42)	-.1111822856E-05	.3537433544E-06	3.14302	99.91307
X(46)	-.4248912395E-08	.203608650E-08	-2.08627	98.13524
X(36)	.2112297319E-09	.1153420792E-09	1.83133	96.62742

TABLE OF ADJUSTED MEANS AND STANDARD ERRORS

FRIDAY, JUL 2, 1976

TREATMENT NO.	TREATMENT MEAN	ADJUSTED MEAN	SE ADJUSTED
1	.4055491E+00	.3941703E+00	.3054607E-03
2	.3799314E+00	.3922970E+00	.3279592E-03

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF INTERCEPTS

	INTERCEPT = -.5100840011E+01 (BETWEEN)
	INTERCEPT = .3524255916E+00 (TOTAL)
TREATMENT NO.	INTERCEPT (WITHIN)
1	.3532068342E+00
2	.3513335574E+00

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
1	.3265000E+00	.3121919E+00	.1430809E-01	4.58	1
2	.3426000E+00	.3152483E+00	.8351668E-02	2.49	1
3	.3605000E+00	.3578903E+00	.2609731E-02	.73	1
4	.3802000E+00	.3807374E+00	-.5374150E-03	-.14	1
5	.4021000E+00	.4070981E+00	-.4998074E-02	-1.23	1
6	.4315000E+00	.4357605E+00	-.4260536E-02	-.98	1
7	.4661000E+00	.4665851E+00	-.4851279E-03	-.10	1
8	.5010000E+00	.4994457E+00	.1554285E-02	.31	1
9	.5415000E+00	.5342322E+00	.7267766E-02	1.36	1
10	.5491000E+00	.5414120E+00	.7687999E-02	1.42	1
11	.5504000E+00	.5486642E+00	-.1735766E-02	.32	1
12	.5501000E+00	.5559882E+00	-.5888248E-02	-1.06	1
13	.5536000E+00	.5633834E+00	-.9783376E-02	-1.74	1
14	.3298000E+00	.3209558E+00	.8844211E-02	2.76	1
15	.3458000E+00	.3506868E+00	-.4286860E-02	-1.22	1
16	.3704000E+00	.3741261E+00	-.3726139E-02	-1.00	1
17	.3989000E+00	.4007396E+00	-.1835611E-02	-.46	1
18	.4296000E+00	.4300144E+00	-.4144030E-03	-.10	1
19	.4608000E+00	.4618178E+00	-.1017793E-02	.22	1
20	.4952000E+00	.4960000E+00	-.7999998E-03	-.16	1
21	.5440000E+00	.5324243E+00	.1157567E-01	2.17	1
22	.5481000E+00	.5399674E+00	.9132583E-02	1.69	1
23	.5489000E+00	.5475945E+00	.2305536E-02	.42	1
24	.5495000E+00	.5553046E+00	-.5404613E-02	-.97	1
25	.5549000E+00	.5630970E+00	-.8197030E-02	-1.46	1
26	.3320000E+00	.3263897E+00	.5610316E-02	1.72	1
27	.3515000E+00	.3539539E+00	-.2453893E-02	-.69	1
28	.3814000E+00	.3818866E+00	-.4866290E-03	-.13	1
29	.4114000E+00	.4096431E+00	.1756896E-02	.43	1
30	.4406000E+00	.4401707E+00	.4293099E-03	.10	1
31	.4730000E+00	.4729224E+00	.7760901E-04	.02	1
32	.5128000E+00	.5089716E+00	.3828437E-02	.75	1
33	.5499000E+00	.5469471E+00	.2952924E-02	.54	1
34	.5510000E+00	.5548112E+00	-.3811225E-02	-.69	1
35	.5561000E+00	.5627629E+00	-.6662855E-02	-1.18	1
36	.3453000E+00	.3374766E+00	.7823430E-02	2.32	1
37	.3728000E+00	.3700828E+00	.2717237E-02	.73	1
38	.4011000E+00	.3970458E+00	.4054200E-02	1.02	1
39	.4282000E+00	.4269152E+00	.1284795E-02	.30	1
40	.4568000E+00	.4597826E+00	-.2982637E-02	-.65	1
41	.4941000E+00	.4954965E+00	-.1396470E-02	-.28	1
42	.5441000E+00	.5338871E+00	.1021290E-01	1.91	1
43	.5490000E+00	.5418725E+00	.7127492E-02	1.32	1
44	.5503000E+00	.5499576E+00	-.3423874E-03	.06	1
45	.3618000E+00	.3530249E+00	.8775069E-02	2.49	1
46	.3895000E+00	.3882818E+00	.1218209E-02	.31	1
47	.4200000E+00	.4197258E+00	.2742454E-03	.07	1
48	.4440000E+00	.4443637E+00	-.3637389E-03	-.08	1
49	.4850000E+00	.4853864E+00	-.3864349E-03	-.08	1
50	.5252000E+00	.5243064E+00	.8936132E-03	.17	1

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
51	.5353000E+00	.5324501E+00	.2848939E-02	.54	1
52	.2986000E+00	.2924517E+00	.5148326E-02	1.75	1
53	.3170000E+00	.3164811E+00	.5188858E-03	.16	1
54	.3345000E+00	.3361362E+00	-.1636200E-02	-.49	1
55	.3545000E+00	.3561963E+00	-.1696323E-02	-.48	1
56	.3818000E+00	.3824290E+00	-.6290195E-03	-.16	1
57	.4091000E+00	.4089261E+00	.1738820E-03	.04	1
58	.4175000E+00	.4185246E+00	-.1024609E-02	-.23	1
59	.4667000E+00	.4679334E+00	-.1233430E-02	-.26	1
60	.4960000E+00	.5002125E+00	-.4212476E-02	-.84	1
61	.5029000E+00	.5056877E+00	-.3977691E-02	-.78	1
62	.5100000E+00	.5136111E+00	-.3611085E-02	-.70	1
63	.5183000E+00	.5204120E+00	-.2112001E-02	-.41	1
64	.3036000E+00	.3032882E+00	.3118248E-03	.10	1
65	.3272000E+00	.3295495E+00	-.2349469E-02	-.71	1
66	.3527000E+00	.3516854E+00	-.1014555E-02	.29	1
67	.3778000E+00	.3763509E+00	-.1449103E-02	.39	1
68	.4018000E+00	.4035752E+00	-.1775228E-02	-.44	1
69	.4278000E+00	.4332133E+00	-.5313274E-02	-.12	1
70	.4579000E+00	.4651138E+00	-.7213751E-02	-.55	1
71	.4978000E+00	.4991419E+00	-.1341924E-02	-.27	1
72	.5044000E+00	.5061923E+00	-.1792314E-02	-.35	1
73	.5117000E+00	.5133222E+00	-.1622237E-02	-.32	1
74	.3128000E+00	.3078604E+00	.4939589E-02	1.60	1
75	.3360000E+00	.3354088E+00	.5911673E-03	.18	1
76	.3615000E+00	.3585843E+00	.2915725E-02	.81	1
77	.3844000E+00	.3843927E+00	.7269771E-05	.00	1
78	.4101000E+00	.4128695E+00	-.2769855E-02	.67	1
79	.4384000E+00	.4428659E+00	.5465866E-02	-.12	1
80	.4719000E+00	.4772237E+00	-.5223656E-02	-.112	1
81	.4802000E+00	.4841166E+00	-.3965950E-02	-.82	1
82	.4891000E+00	.4911960E+00	-.2096018E-02	-.43	1
83	.4979000E+00	.4983129E+00	-.4128596E-03	-.08	1
84	.5061000E+00	.5055155E+00	.5844953E-03	.12	1
85	.5132000E+00	.5128030E+00	.3969893E-03	.08	1
86	.3260000E+00	.3202566E+00	.5643407E-02	1.76	1
87	.3472000E+00	.3468618E+00	.3381711E-03	.10	1
88	.3727000E+00	.3719215E+00	.7784887E-03	.21	1
89	.3997000E+00	.3993429E+00	.1428863E-03	-.04	1
90	.4267000E+00	.4306599E+00	.3959867E-02	-.92	1
91	.4596000E+00	.4642084E+00	-.4608356E-02	-.99	1
92	.4670000E+00	.4712305E+00	-.4230445E-02	-.90	1
93	.4741000E+00	.4783537E+00	-.4253676E-02	-.89	1
94	.4822000E+00	.4855767E+00	-.3376674E-02	-.70	1
95	.4912000E+00	.4923983E+00	.1598262E-02	-.34	1
96	.5012000E+00	.5003173E+00	.8827467E-03	.18	1
97	.3384000E+00	.3300093E+00	.8390706E-02	2.54	1
98	.3623000E+00	.3620644E+00	-.2356109E-03	.07	1
99	.3900000E+00	.3893616E+00	.6344438E-03	.16	1
100	.4171000E+00	.4198710E+00	-.2770998E-02	-.66	1

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
101	.4491000E+00	.4535992E+00	-.4493236E-02	-.99	1
102	.4558000E+00	.4607145E+00	-.4914540E-02	1.07	1
103	.4634000E+00	.4679492E+00	-.4549237E-02	-.97	1
104	.4712000E+00	.4753017E+00	-.4101172E-02	-.86	1
105	.4791000E+00	.4827704E+00	-.3670440E-02	-.76	1
106	.2671000E+00	.2680996E+00	-.9996364E-03	-.37	1
107	.2861000E+00	.2857454E+00	-.3545784E-03	.12	1
108	.3049000E+00	.3022443E+00	.2655656E-02	.88	1
109	.3231000E+00	.3211734E+00	.1926649E-02	.60	1
110	.3416000E+00	.3423802E+00	-.7802220E-03	-.23	1
111	.3625000E+00	.3656782E+00	-.2178204E-02	-.60	1
112	.3889000E+00	.3903088E+00	-.2008800E-02	.51	1
113	.4186000E+00	.4179412E+00	.6587662E-03	.16	1
114	.4238000E+00	.4235540E+00	.2459638E-03	.06	1
115	.4294000E+00	.4293937E+00	.1662776E-03	.04	1
116	.4352000E+00	.4349795E+00	.2204640E-03	.05	1
117	.4411000E+00	.4407907E+00	.30392550E-03	.07	1
118	.4473000E+00	.4466666E+00	.6333600E-03	.14	1
119	.2784000E+00	.2752754E+00	.3124612E-02	1.14	1
120	.3000000E+00	.2961530E+00	.3846974E-02	1.30	1
121	.3168000E+00	.3151328E+00	.1667161E-02	.53	1
122	.3363000E+00	.3367447E+00	-.4446762E-03	-.13	1
123	.3584000E+00	.3608657E+00	.2465580E-02	.58	1
124	.3838000E+00	.3873046E+00	-.3504590E-02	.90	1
125	.4138000E+00	.4158928E+00	-.2092800E-02	-.50	1
126	.4205000E+00	.4218555E+00	-.1355489E-02	-.32	1
127	.4271000E+00	.4278974E+00	-.7974129E-03	.19	1
128	.4338000E+00	.4340176E+00	-.2175935E-03	-.05	1
129	.4410000E+00	.4402151E+00	-.7849138E-03	.18	1
130	.4488000E+00	.4464890E+00	.2311023E-02	.52	1
131	.2847000E+00	.2816290E+00	.3070959E-02	1.09	1
132	.3052000E+00	.3009065E+00	.4293463E-02	1.43	1
133	.3229000E+00	.3209258E+00	.1974183E-02	.62	1
134	.3432000E+00	.3436807E+00	-.4806569E-03	-.14	1
135	.3670000E+00	.36890545E+00	-.2054454E-02	-.56	1
136	.3943000E+00	.3968513E+00	-.2551329E-02	-.64	1
137	.4259000E+00	.4268569E+00	-.9968517E-03	-.23	1
138	.4327000E+00	.4331624E+00	-.46624328E-03	-.11	1
139	.4396000E+00	.4395110E+00	.890420E-04	.02	1
140	.2903000E+00	.2860216E+00	.42278416E-02	1.50	1
141	.3126000E+00	.3103744E+00	.2225605E-02	.72	1
142	.3345000E+00	.3322779E+00	.2222086E-02	.67	1
143	.3575000E+00	.3571457E+00	.3543155E-03	.10	1
144	.3845000E+00	.3848593E+00	-.3593286E-03	-.09	1
145	.4153000E+00	.4152087E+00	.9131935E-04	.02	1
146	.4216000E+00	.4215777E+00	.2228313E-04	.01	1
147	.4283000E+00	.4280432E+00	.2568120E-03	.06	1
148	.3020000E+00	.29565857E+00	.5414329E-02	1.83	1
149	.3250000E+00	.3232571E+00	.1742889E-02	.54	1
150	.3496000E+00	.3473981E+00	.2201885E-02	.63	1

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
151	.3760000E+00	.3748539E+00	.1146058E-02	.31	1
152	.4065000E+00	.4054789E+00	.1021147E-02	.25	1
153	.4126000E+00	.4119628E+00	.6372136E-03	.15	1
154	.2520000E+00	.2513382E+00	.6618035E-03	.26	1
155	.2647000E+00	.2640747E+00	.6252796E-03	.24	1
156	.2782000E+00	.2782849E+00	.8487451E-04	.03	1
157	.2939000E+00	.2952835E+00	.-1383501E-02	.47	1
158	.3116000E+00	.3147172E+00	.-3117174E-02	.99	1
159	.3340000E+00	.3363248E+00	.-2324753E-02	.69	1
160	.3577000E+00	.3599113E+00	.-2211335E-02	.61	1
161	.3858000E+00	.3853225E+00	.4744667E-03	.12	1
162	.3908000E+00	.3908166E+00	.1834327E-03	.05	1
163	.3952000E+00	.3959749E+00	.2250851E-03	.06	1
164	.4019000E+00	.4013997E+00	.5002513E-03	.12	1
165	.2585000E+00	.2570259E+00	.1474146E-02	.57	1
166	.2734000E+00	.2729342E+00	.4057689E-03	.15	1
167	.2837000E+00	.2896853E+00	.-1472419E-04	.01	1
168	.3083000E+00	.3093667E+00	.-1066732E-02	.34	1
169	.3298000E+00	.3317145E+00	.-1914539E-02	.58	1
170	.3529000E+00	.3564630E+00	.-2563045E-02	.72	1
171	.3822000E+00	.3834072E+00	.-1207241E-02	.31	1
172	.3884000E+00	.3890447E+00	.-6447129E-03	.17	1
173	.3948000E+00	.3947623E+00	.-3769196E-04	.01	1
174	.2619000E+00	.2602097E+00	.1690327E-02	.65	1
175	.2783000E+00	.2774652E+00	.8348212E-03	.30	1
176	.2956000E+00	.2951957E+00	.4043102E-03	.14	1
177	.3160000E+00	.3160201E+00	.-2014964E-04	.01	1
178	.3382000E+00	.3396207E+00	.-1420748E-02	.42	1
179	.1639000E+00	.3657272E+00	.-1827220E-02	.50	1
180	.3696000E+00	.3712958E+00	.-1629810E-02	.44	1
181	.3754000E+00	.3768226E+00	.-1422613E-02	.38	1
182	.3815000E+00	.3825042E+00	.-1004243E-02	.26	1
183	.3878000E+00	.3882734E+00	.-4733728E-03	.12	1
184	.2691000E+00	.2677160E+00	.-1384011E-02	.52	1
185	.2887000E+00	.2871595E+00	.-1540461E-02	.54	1
186	.3083000E+00	.3067743E+00	.-1525710E-02	.50	1
187	.3304000E+00	.3297117E+00	.-6883198E-03	.21	1
188	.3550000E+00	.3556521E+00	.-6521256E-03	.18	1
189	.3605000E+00	.3611744E+00	.-6744023E-03	.19	1
190	.3661000E+00	.3668033E+00	.-7032622E-03	.19	1
191	.3719000E+00	.3725368E+00	.-6368360E-03	.17	1
192	.3779000E+00	.3783733E+00	.-4733408E-03	.13	1
193	.2821000E+00	.2821601E+00	.-6012924E-04	.02	1
194	.3033000E+00	.3017344E+00	.-1565572E-02	.52	1
195	.3236000E+00	.3235867E+00	.-1333615E-04	.00	1
196	.3477000E+00	.3491121E+00	.-1412111E-02	.40	1
197	.3529000E+00	.3546274E+00	.-1727388E-02	.49	1
198	.3584000E+00	.3602728E+00	.-1872758E-02	.52	1
199	.3641000E+00	.3660456E+00	.-1945600E-02	.53	1
200	.3057000E+00	.3051117E+00	.-5883270E-03	.19	2

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
201	.3284000E+00	.3258274E+00	.2972618E-02	.91	2
202	.3476000E+00	.3457866E+00	.1813409E-02	.52	2
203	.3715000E+00	.3722924E+00	.-7324230E-03	.21	2
204	.3930000E+00	.3954179E+00	.-3417903E-02	.86	2
205	.4240000E+00	.4268189E+00	.-2818932E-02	.66	2
206	.4592000E+00	.4583143E+00	.-8856783E-03	.19	2
207	.4919000E+00	.4929349E+00	.-1034939E-02	.21	2
208	.5292000E+00	.5297915E+00	.-5915264E-03	.11	2
209	.5418000E+00	.5374197E+00	.4480293E-02	.83	2
210	.5488000E+00	.5451313E+00	.-3668663E-02	.67	2
211	.5498000E+00	.5529255E+00	.-3125476E-02	.57	2
212	.3094000E+00	.3176729E+00	.-8272940E-02	.260	2
213	.3344000E+00	.3412205E+00	.-6820500E-02	.200	2
214	.3620000E+00	.3646060E+00	.-2060601E-02	.57	2
215	.3920000E+00	.3905135E+00	.-1486531E-02	.38	2
216	.4220000E+00	.4202889E+00	.-1711242E-02	.41	2
217	.4503000E+00	.4530924E+00	.-2792430E-02	.62	2
218	.4854000E+00	.4886838E+00	.-3288386E-02	.67	2
219	.5252000E+00	.5268682E+00	.-5613803E-02	.07	2
220	.5439000E+00	.5348016E+00	.-9098413E-02	.70	2
221	.5494000E+00	.5428310E+00	.-6568962E-02	.21	2
222	.5502000E+00	.5505554E+00	.-7554399E-03	.14	2
223	.3174000E+00	.3234727E+00	.-6072717E-02	.188	2
224	.3455000E+00	.3483074E+00	.-2807407E-02	.81	2
225	.3743000E+00	.3721870E+00	.-2113027E-02	.57	2
226	.4040000E+00	.3997828E+00	.-4217156E-02	.05	2
227	.4350000E+00	.4339338E+00	.-1066211E-02	.25	2
228	.4650000E+00	.4682801E+00	.-3380075E-02	.72	2
229	.5026000E+00	.5020212E+00	.-5787171E-03	.12	2
230	.5495000E+00	.5417568E+00	.-743174E-02	.43	2
231	.5498000E+00	.5500113E+00	.-2112768E-03	.04	2
232	.3364000E+00	.3351418E+00	.-1251056E-02	.37	2
233	.3647000E+00	.3621717E+00	.-2528322E-02	.70	2
234	.3935000E+00	.3879355E+00	.-5564515E-02	.43	2
235	.4180000E+00	.4150241E+00	.-2975862E-02	.72	2
236	.4480000E+00	.4472720E+00	.-7279521E-03	.16	2
237	.4892000E+00	.4877263E+00	.-1473670E-02	.30	2
238	.5087000E+00	.4954468E+00	.-3253158E-02	.66	2
239	.5068000E+00	.5032888E+00	.-3511194E-02	.70	2
240	.5156000E+00	.5112505E+00	.-4349539E-02	.85	2
241	.5257000E+00	.5193301E+00	.-6369880E-02	.23	2
242	.5361000E+00	.5275262E+00	.-8573844E-02	.63	2
243	.3532000E+00	.3512548E+00	.-1945233E-02	.55	2
244	.3807000E+00	.3805961E+00	.-1038701E-03	.03	2
245	.4070000E+00	.4085974E+00	.-1597421E-02	.39	2
246	.4328000E+00	.4408943E+00	.-2694279E-02	.61	2
247	.4759000E+00	.4771736E+00	.-1273593E-02	.27	2
248	.4854000E+00	.4848763E+00	.-5273718E-03	.11	2
249	.4939000E+00	.4927219E+00	.-1178078E-02	.24	2
250	.5022000E+00	.5007082E+00	.-1491799E-02	.30	2

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
251	.5103000E+00	.5088329E+00	.1467148E-02	.29	2
252	.5189000E+00	.5170937E+00	.1806290E-02	.35	2
253	.2848000E+00	.2892772E+00	-.4477158E-02	-1.55	2
254	.3048000E+00	.3073382E+00	-.2538170E-02	-.83	2
255	.3275000E+00	.3264518E+00	.1048235E-02	.32	2
256	.3474000E+00	.3472962E+00	.1037779E-03	.03	2
257	.3734000E+00	.3717081E+00	.1591890E-02	.46	2
258	.3985000E+00	.3988961E+00	-.1960830E-03	-.05	2
259	.4261000E+00	.4280451E+00	-.1945126E-02	-.45	2
260	.4579000E+00	.4611138E+00	-.3238002E-02	-.70	2
261	.4896000E+00	.4931173E+00	-.3573082E-02	-.72	2
262	.4956000E+00	.5001263E+00	-.3626634E-02	-.73	2
263	.2948000E+00	.3000683E+00	-.5268304E-02	-1.76	2
264	.3197000E+00	.3213612E+00	-.1561168E-02	-.52	2
265	.3445000E+00	.3422383E+00	.2261706E-02	.66	2
266	.3664000E+00	.3664829E+00	-.8293922E-04	-.02	2
267	.3913000E+00	.3938090E+00	-.2508982E-02	-.64	2
268	.4213000E+00	.4239379E+00	-.2637863E-02	-.62	2
269	.4521000E+00	.4564445E+00	-.4544520E-02	-1.00	2
270	.4912000E+00	.4917471E+00	-.5471497E-03	-.11	2
271	.4981000E+00	.4990416E+00	.9415704E-03	-.19	2
272	.3015000E+00	.3050064E+00	-.3505642E-02	-1.15	2
273	.3268000E+00	.3275864E+00	-.8686414E-03	-.21	2
274	.3505000E+00	.3495030E+00	.9969936E-03	.29	2
275	.3735600E+00	.3748907E+00	-.1290655E-02	-.34	2
276	.4019000E+00	.4034695E+00	-.1569471E-02	-.39	2
277	.4310000E+00	.4349563E+00	-.3956337E-02	-.91	2
278	.4652000E+00	.4691203E+00	-.3920306E-02	-.84	2
279	.4723000E+00	.4762572E+00	-.3057235E-02	-.64	2
280	.4816000E+00	.4834923E+00	-.1892331E-02	-.39	2
281	.4901000E+00	.4908243E+00	-.7243208E-03	-.15	2
282	.3116000E+00	.3148607E+00	-.3260713E-02	-1.04	2
283	.3365000E+00	.3396288E+00	-.3128751E-02	-.92	2
284	.3633000E+00	.3634296E+00	-.1295833E-03	-.04	2
285	.3909000E+00	.3909302E+00	-.3016176E-04	-.01	2
286	.4195000E+00	.4218488E+00	-.2348825E-02	-.56	2
287	.4522000E+00	.4558882E+00	-.3688168E-02	-.81	2
288	.4597000E+00	.4633048E+00	-.3348088E-02	-.72	2
289	.4676000E+00	.4703212E+00	-.27221174E-02	-.58	2
290	.4760000E+00	.4777058E+00	-.1705775E-02	-.36	2
291	.3262000E+00	.3283021E+00	-.2002108E-02	-.61	2
292	.3533000E+00	.3553888E+00	-.2088774E-02	-.59	2
293	.3810000E+00	.3814271E+00	-.4270908E-03	-.11	2
294	.4100000E+00	.4115157E+00	-.1515726E-02	-.37	2
295	.4418000E+00	.4453457E+00	-.3545656E-02	-.86	2
296	.4490000E+00	.4525309E+00	-.3530909E-02	-.78	2
297	.4565000E+00	.4598503E+00	-.3350262E-02	-.73	2
298	.2613000E+00	.2640511E+00	-.2751076E-02	-1.04	2
299	.2780000E+00	.2774107E+00	.5893218E-03	.21	2
300	.2955000E+00	.2926731E+00	-.2826853E-02	.97	2

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
301	.3128000E+00	.3110210E+00	.1778964E-02	.57	2
302	.3331000E+00	.3320458E+00	.1054168E-02	.32	2
303	.3547000E+00	.3554540E+00	-.7540126E-03	.21	2
304	.3806000E+00	.3810286E+00	-.4286494E-03	-.11	2
305	.4117000E+00	.4086021E+00	.3097897E-02	.76	2
306	.4171000E+00	.4143344E+00	.2755628E-02	.67	2
307	.4230000E+00	.4201602E+00	.2839798E-02	.68	2
308	.4292000E+00	.4260487E+00	.3151318E-02	.74	2
309	.4356000E+00	.4320089E+00	.3591068E-02	.83	2
310	.2711000E+00	.2721815E+00	-.1081472E-02	-.40	2
311	.2892000E+00	.2887729E+00	-.4270732E-03	.15	2
312	.3075000E+00	.3065163E+00	-.1083714E-02	.35	2
313	.3278000E+00	.3275470E+00	-.2529950E-03	.08	2
314	.3501000E+00	.3514859E+00	-.1385933E-02	-.39	2
315	.3763000E+00	.3780350E+00	-.1735042E-02	-.46	2
316	.4072000E+00	.4069573E+00	-.2327067E-03	.06	2
317	.4139000E+00	.4130234E+00	.8766330E-03	.21	2
318	.4212000E+00	.4191663E+00	-.2033709E-02	.49	2
319	.4284000E+00	.4253949E+00	.3005125E-02	.71	2
320	.2745000E+00	.2760137E+00	-.1513736E-02	-.55	2
321	.2956000E+00	.2938923E+00	-.1707680E-02	.58	2
322	.3141000E+00	.3126751E+00	.1424854E-02	.46	2
323	.3351000E+00	.3348489E+00	.2511324E-03	.07	2
324	.3590000E+00	.3600405E+00	-.1040589E-02	-.29	2
325	.3874000E+00	.3879477E+00	.5476637E-03	-.14	2
326	.3936000E+00	.3938335E+00	-.2334529E-03	-.06	2
327	.4000000E+00	.3998168E+00	.1832065E-03	.05	2
328	.4066000E+00	.4058962E+00	.7038372E-03	.17	2
329	.4135000E+00	.4120701E+00	.1429895E-02	.35	2
330	.4205000E+00	.4183372E+00	.2162773E-02	.52	2
331	.2825000E+00	.2838829E+00	-.1382890E-02	-.49	2
332	.3044000E+00	.3039495E+00	.4504813E-03	.15	2
333	.3265000E+00	.3246166E+00	-.1883416E-02	.58	2
334	.3499000E+00	.3489032E+00	.9967563E-03	.29	2
335	.3773000E+00	.3764348E+00	.8651954E-03	.23	2
336	.3833000E+00	.3823013E+00	.9987428E-03	.26	2
337	.3895000E+00	.3882824E+00	.1217556E-02	.31	2
338	.3959000E+00	.3943763E+00	.1523689E-02	.39	2
339	.4026000E+00	.4005809E+00	.2019097E-02	.50	2
340	.4095000E+00	.4068944E+00	.2605644E-02	.64	2
341	.2929000E+00	.2950044E+00	-.2104440E-02	-.71	2
342	.3172000E+00	.3173897E+00	-.1896971E-03	-.06	2
343	.3424000E+00	.3402942E+00	.2105753E-02	.62	2
344	.3691000E+00	.3671690E+00	.1931044E-02	.53	2
345	.3750000E+00	.3729844E+00	.2015845E-02	.54	2
346	.3811000E+00	.3789392E+00	.2160842E-02	.57	2
347	.3873000E+00	.3850305E+00	.2269525E-02	.59	2
348	.3937000E+00	.3912556E+00	.2444443E-02	.62	2
349	.2456000E+00	.2474156E+00	.1815591E-02	-.73	2
350	.2555000E+00	.2558178E+00	.3177614E-03	-.12	2

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
351	.2705000E+00	.2690027E+00	.1497281E-02	.56	2
352	.2863000E+00	.2857400E+00	.5599717E-03	.20	2
353	.3042000E+00	.3053933E+00	-.1193293E-02	-.39	2
354	.3253000E+00	.3275810E+00	-.2281039E-02	-.70	2
355	.3506000E+00	.3520414E+00	-.1441393E-02	-.41	2
356	.3797000E+00	.3785801E+00	.119880E-02	.30	2
357	.3849000E+00	.3841234E+00	.7766403E-03	.20	2
358	.3905000E+00	.3897425E+00	.7574718E-03	.19	2
359	.2521000E+00	.2540579E+00	-.1957893E-02	-.77	2
360	.2651000E+00	.2656919E+00	-.5919162E-03	.22	2
361	.2819000E+00	.2813578E+00	.5422459E-03	.19	2
362	.3009000E+00	.3007779E+00	.1209656E-03	.04	2
363	.3228000E+00	.3233453E+00	-.5453017E-03	-.17	2
364	.3472000E+00	.3486740E+00	-.1473975E-02	-.42	2
365	.3761000E+00	.3764919E+00	-.3919435E-03	-.10	2
366	.3824000E+00	.3823354E+00	.6463978E-04	.02	2
367	.2557000E+00	.2576076E+00	-.1907594E-02	-.74	2
368	.2701000E+00	.2705287E+00	-.4287459E-03	-.16	2
369	.2881000E+00	.2872341E+00	.8659500E-03	.30	2
370	.3087000E+00	.3077372E+00	.9027974E-03	.29	2
371	.3323000E+00	.3316174E+00	.6826057E-03	.21	2
372	.3576000E+00	.3583040E+00	-.7040324E-03	-.20	2
373	.3634000E+00	.3639595E+00	-.5595079E-03	-.15	2
374	.3694000E+00	.3697165E+00	-.3164789E-03	-.09	2
375	.3755000E+00	.3755732E+00	.2680236E-04	.01	2
376	.2614000E+00	.2657033E+00	-.2303251E-02	-.87	2
377	.2807000E+00	.2808124E+00	-.1124475E-03	-.04	2
378	.3012000E+00	.2994020E+00	.1798009E-02	.60	2
379	.3238000E+00	.3220781E+00	.1721926E-02	.53	2
380	.3490000E+00	.3482381E+00	.7618876E-03	.22	2
381	.3545000E+00	.3538502E+00	.6497877E-03	.18	2
382	.3602000E+00	.3595925E+00	.6174594E-03	.17	2
383	.2737000E+00	.2785170E+00	-.4816974E-02	-1.73	2
384	.2957000E+00	.2959448E+00	.7552010E-03	.26	2
385	.3173000E+00	.3167718E+00	.5281724E-03	.17	2
386	.3419000E+00	.3420360E+00	-.11595672E-03	-.04	2
387	.3475000E+00	.3475617E+00	.6173733E-04	.02	2
388	.2936000E+00	.2919199E+00	.1680051E-02	.58	2
389	.3129000E+00	.3129554E+00	-.5486127E-04	-.02	2
390	.3347000E+00	.3339818E+00	.7182096E-03	.22	2
391	.3605000E+00	.3610242E+00	-.5242403E-03	-.15	2
392	.3864000E+00	.3862336E+00	.1664203E-03	.04	2
393	.4153000E+00	.4168359E+00	-.2646089E-02	.59	2
394	.4488000E+00	.4500870E+00	-.1286974E-02	-.29	2
395	.4844000E+00	.4857972E+00	-.1397214E-02	-.29	2
396	.5174000E+00	.5238114E+00	-.6411430E-02	-1.22	2
397	.5285000E+00	.5231679E+00	-.3178963E-02	-.60	2
398	.5401000E+00	.53996325E+00	.4675295E-03	.09	2
399	.3018000E+00	.3054359E+00	-.3635860E-02	-1.19	2
400	.3281000E+00	.3297026E+00	-.1602625E-02	-.49	2

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
401	.3556000E+00	.3532104E+00	.2389556E-02	.68	2
402	.3846000E+00	.3804279E+00	.4172055E-02	1.10	2
403	.4131000E+00	.4110592E+00	.2040803E-02	.50	2
404	.4395000E+00	.4448025E+00	-.5102455E-02	-1.19	2
405	.4778000E+00	.4814111E+00	-.36111132E-02	-.75	2
406	.5189000E+00	.5206851E+00	-.1785117E-02	-.34	2
407	.5315000E+00	.5288447E+00	.2655282E-02	.50	2
408	.3108000E+00	.3116015E+00	-.8015191E-03	-.26	2
409	.3382000E+00	.3371554E+00	.1044587E-02	.31	2
410	.3666000E+00	.3617027E+00	.4897301E-02	1.35	2
411	.3954000E+00	.3900632E+00	.5336797E-02	1.37	2
412	.4210000E+00	.4203538E+00	.6462080E-03	.15	2
413	.4528000E+00	.4570485E+00	-.4248472E-02	-.93	2
414	.4953000E+00	.4951145E+00	.1855391E-03	.04	2
415	.5054000E+00	.5030646E+00	.2335352E-02	.46	2
416	.5147000E+00	.51111236E+00	.3576266E-02	.70	2
417	.5232000E+00	.5192900E+00	.39098981E-02	.75	2
418	.5332000E+00	.5275625E+00	.5637549E-02	1.07	2
419	.3263000E+00	.3238671E+00	.2432913E-02	.75	2
420	.3518000E+00	.3516090E+00	.2190974E-02	.62	2
421	.3820000E+00	.3780406E+00	.3959449E-02	1.05	2
422	.4092000E+00	.4085140E+00	.6860147E-03	.17	2
423	.4405000E+00	.4427379E+00	-.2237877E-02	-.51	2
424	.4796000E+00	.4803916E+00	-.7915782E-03	-.16	2
425	.4892000E+00	.4883095E+00	.8904793E-03	.18	2
426	.4992000E+00	.4963250E+00	.2848032E-02	.57	2
427	.5081000E+00	.5045171E+00	.3582880E-02	.71	2
428	.5176000E+00	.5128032E+00	.4796756E-02	.94	2
429	.3393000E+00	.3405304E+00	-.1230373E-02	-.36	2
430	.3693000E+00	.3705909E+00	-.1290940E-02	-.35	2
431	.3997000E+00	.3992600E+00	.4400498E-03	.11	2
432	.4302000E+00	.4323214E+00	-.2121441E-02	-.49	2
433	.4671000E+00	.4694566E+00	-.2356600E-02	-.50	2
434	.4761000E+00	.4773407E+00	-.1240725E-02	-.26	2
435	.4856000E+00	.4853711E+00	.2288744E-03	.05	2
436	.4747000E+00	.4765263E+00	-.1826277E-02	-.66	2
437	.2919000E+00	.2959215E+00	-.4021522E-02	-1.36	2
438	.3168000E+00	.3149259E+00	.1874144E-02	.60	2
439	.3400000E+00	.3369921E+00	.3007897E-02	.89	2
440	.3632000E+00	.3618609E+00	.13339085E-02	.37	2
441	.3879000E+00	.3884625E+00	.5624882E-03	-.14	2
442	.4187000E+00	.4190426E+00	-.3425738E-03	-.08	2
443	.4523000E+00	.4509855E+00	.1314489E-02	.29	2
444	.4580000E+00	.4576233E+00	.3767313E-03	.08	2
445	.4641000E+00	.4643417E+00	-.2417353E-03	-.05	2
446	.4704000E+00	.4711400E+00	.7399729E-03	-.16	2
447	.4770000E+00	.4780171E+00	-.1017075E-02	-.21	2
448	.4838000E+00	.4849722E+00	-.1172165E-02	-.24	2
449	.2884000E+00	.2882272E+00	.1279333E-03	.04	2
450	.3109000E+00	.3108992E+00	.8353103E-06	.00	2

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
451	.3341000E+00	.3223844E+00	.1715610E-02	.52	2
452	.3559000E+00	.3571335E+00	-.1233466E-02	-.35	2
453	.3820000E+00	.3849164E+00	-.2916411E-02	-.76	2
454	.4123000E+00	.4154757E+00	-.3175706E-02	-.76	2
455	.4452000E+00	.4485966E+00	-.3395612E-02	-.76	2
456	.4526000E+00	.4555121E+00	-.2912132E-02	-.64	2
457	.4601000E+00	.4625217E+00	-.2421740E-02	-.52	2
458	.4685000E+00	.4695242E+00	-.1124236E-02	-.24	2
459	.4770000E+00	.4768185E+00	-.1815401E-03	.04	2
460	.4855000E+00	.4841023E+00	-.1956707E-02	.29	2
461	.2942000E+00	.2935761E+00	.6239339E-03	.21	2
462	.3178000E+00	.3174903E+00	-.3097073E-03	.10	2
463	.3399000E+00	.3400150E+00	-.1149839E-03	-.03	2
464	.3645000E+00	.3659071E+00	-.1407063E-02	-.38	2
465	.3923000E+00	.3949428E+00	-.2642802E-02	-.67	2
466	.4233000E+00	.4268601E+00	-.3560062E-02	-.83	2
467	.4587000E+00	.4614383E+00	-.2738280E-02	-.59	2
468	.4668000E+00	.4686557E+00	-.1856692E-02	-.40	2
469	.4754000E+00	.4759729E+00	-.5728041E-03	-.12	2
470	.3026000E+00	.3040197E+00	-.1419699E-02	-.47	2
471	.3287000E+00	.3301220E+00	-.1421971E-02	-.43	2
472	.3546000E+00	.3545309E+00	.6909822E-04	.02	2
473	.3817000E+00	.3825359E+00	-.8359113E-03	-.22	2
474	.4125000E+00	.4129115E+00	-.1411496E-02	-.34	2
475	.4456000E+00	.4483812E+00	-.2781234E-02	-.62	2
476	.4532000E+00	.4556251E+00	-.2425061E-02	-.53	2
477	.3163000E+00	.3180186E+00	-.1718556E-02	-.54	2
478	.3437000E+00	.3464395E+00	-.2739456E-02	-.79	2
479	.3730000E+00	.3720859E+00	-.8571188E-04	-.02	2
480	.4032000E+00	.4036789E+00	-.4789383E-03	.12	2
481	.4691000E+00	.4102511E+00	-.1151099E-02	-.28	2
482	.4152000E+00	.4169684E+00	-.1768375E-02	-.42	2
483	.4216000E+00	.4238282E+00	-.2228121E-02	-.53	2
484	.4281000E+00	.4308282E+00	-.2728154E-02	-.63	2
485	.4351000E+00	.4379565E+00	-.2965790E-02	-.65	2
486	.2542000E+00	.2521819E+00	.2018119E-02	.80	2
487	.2590000E+00	.2675558E+00	-.1442038E-02	.54	2
488	.2848000E+00	.2834509E+00	-.1349072E-02	.48	2
489	.3036000E+00	.3021429E+00	-.1457064E-02	.48	2
490	.3241000E+00	.3233405E+00	-.7591154E-03	.23	2
491	.3464000E+00	.3467988E+00	-.3988061E-03	-.11	2
492	.3727000E+00	.3723256E+00	-.3744470E-03	.10	2
493	.4046000E+00	.3997696E+00	.4830380E-02	1.21	2
494	.4104000E+00	.4054773E+00	-.4922734E-02	1.21	2
495	.4166000E+00	.4112557E+00	-.5344266E-02	1.30	2
496	.4232000E+00	.4171042E+00	.6095818E-02	1.46	2
497	.2523000E+00	.2612669E+00	.1033079E-02	.40	2
498	.2795000E+00	.27983749E+00	-.37488552E-03	-.13	2
499	.2983000E+00	.2982487E+00	.5128896E-04	.02	2
500	.3197000E+00	.3196235E+00	.7645118E-04	.02	2

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
501	.3423000E+00	.3437256E+00	-.1425631E-02	-.42	2
502	.3687000E+00	.3703345E+00	-.1634480E-02	-.44	2
503	.4006000E+00	.3992188E+00	-.11381159E-02	.35	2
504	.4078000E+00	.4052551E+00	.2544852E-02	.63	2
505	.4152000E+00	.4113752E+00	.3824839E-02	.93	2
506	.2667000E+00	.2654651E+00	.1234933E-02	.47	2
507	.2846000E+00	.2853601E+00	-.7601303E-03	-.27	2
508	.3053000E+00	.3047735E+00	.5265476E-03	.17	2
509	.3274000E+00	.3272913E+00	-.1087066E-03	.03	2
510	.3515000E+00	.3526562E+00	-.1156169E-02	-.33	2
511	.3802000E+00	.3806130E+00	-.4129832E-03	-.11	2
512	.3855000E+00	.3864956E+00	-.3610129E-05	.00	2
513	.3931000E+00	.3924736E+00	.6263806E-03	.16	2
514	.4000000E+00	.3985453E+00	-.1456715E-02	.37	2
515	.2754000E+00	.2739236E+00	-.1476438E-02	.54	2
516	.2956000E+00	.2960067E+00	-.7066700E-03	-.24	2
517	.3191000E+00	.3177042E+00	.1795768E-02	.57	2
518	.3429000E+00	.3419350E+00	.9649971E-03	.28	2
519	.3704000E+00	.3696397E+00	.7602748E-03	.21	2
520	.3764000E+00	.3755250E+00	.8750250E-03	.23	2
521	.3826000E+00	.3815203E+00	.1079574E-02	.28	2
522	.3891000E+00	.3876239E+00	.1476056E-02	.38	2
523	.2868000E+00	.2856026E+00	.1197425E-02	.42	2
524	.3096000E+00	.3100043E+00	-.4042110E-03	-.13	2
525	.3356000E+00	.3353539E+00	.2060642E-02	.62	2
526	.3629000E+00	.3607582E+00	.2141815E-02	.59	2
527	.3688000E+00	.3666199E+00	.2180121E-02	.59	2
528	.2363000E+00	.2354281E+00	-.1208022E-03	-.05	2
529	.2471000E+00	.2467988E+00	.3014390E-03	.12	2
530	.2622000E+00	.2608253E+00	.1374749E-02	.53	2
531	.2788000E+00	.2782265E+00	.5734989E-03	.21	2
532	.2973000E+00	.2984546E+00	-.1154589E-02	-.39	2
533	.3187000E+00	.3211620E+00	.2462040E-02	-.77	2
534	.1438000E+00	.1461042E+00	-.2304237E-02	-.67	2
535	.1733000E+00	.1730971E+00	.2029154E-03	.05	2
536	.3787000E+00	.3787254E+00	-.2844058E-04	.01	2
537	.2439000E+00	.2440250E+00	-.1250283E-03	-.05	2
538	.2572000E+00	.2576274E+00	-.4273600E-03	-.17	2
539	.2743000E+00	.2741349E+00	.1650593E-03	.06	2
540	.2939000E+00	.2942190E+00	-.3190203E-03	-.11	2
541	.3165000E+00	.3173162E+00	-.8612411E-03	-.27	2
542	.3410000E+00	.3422095E+00	.22095620E-02	.64	2
543	.3464000E+00	.3486804E+00	-.22803939E-02	.65	2
544	.3519000E+00	.3542473E+00	-.2347349E-02	.66	2
545	.2557000E+00	.3599089E+00	-.2208851E-02	.61	2
546	.3636000E+00	.3656634E+00	.1863367E-02	.51	2
547	.24793000E+00	.2479406E+00	-.4061121E-04	-.02	2
548	.2625000E+00	.2628301E+00	-.3300716E-03	.13	2
549	.2809000E+00	.2803771E+00	.5228814E-03	.19	2
550	.3018000E+00	.3016042E+00	.1957986E-03	.06	2

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
551	.3254000E+00	.3259992E+00	-.5992156E-03	-.18	2
552	.3517000E+00	.3512056E+00	-.1505556E-02	-.43	2
553	.3575000E+00	.3589500E+00	-.1460037E-02	-.41	2
554	.2564000E+00	.2566256E+00	-.2256091E-03	-.09	2
555	.2736000E+00	.2737031E+00	-.1031141E-03	-.04	2
556	.2943000E+00	.2931344E+00	.1165599E-02	.40	2
557	.3178000E+00	.3184744E+00	.1325586E-02	.42	2
558	.3227000E+00	.3215634E+00	.1136570E-02	.35	2
559	.3278000E+00	.3267844E+00	.1015556E-02	.31	2
560	.3328000E+00	.3321343E+00	.5656722E-03	.20	2
561	.3379000E+00	.3376102E+00	.2898149E-03	.09	2
562	.3432000E+00	.3432093E+00	-.9274528E-05	-.00	2
563	.2675000E+00	.2659968E+00	-.2496795E-02	-.92	2
564	.2875000E+00	.2893929E+00	-.1892928E-02	-.65	2
565	.3115000E+00	.3110617E+00	.4383003E-03	.14	2
566	.3162000E+00	.3159261E+00	.2739455E-03	.09	2
567	.3211000E+00	.3209555E+00	.1444602E-03	.05	2
568	.3260000E+00	.3251455E+00	-.1455122E-03	-.04	2
569	.3156000E+00	.3117124E+00	.3886617E-02	1.25	1
570	.3465000E+00	.3450775E+00	.1422493E-02	.41	1
571	.3750000E+00	.3676201E+00	.7379375E-02	2.01	1
572	.3965000E+00	.3900449E+00	.6455076E-02	1.65	1
573	.4116000E+00	.4159050E+00	-.4304956E-02	-1.04	1
574	.4374000E+00	.4435673E+00	.6167266E-02	1.39	1
575	.4734000E+00	.4729827E+00	.4173426E-03	.09	1
576	.5211000E+00	.5040832E+00	.1701679E-01	3.38	1
577	.5474000E+00	.5367997E+00	.1060033E-01	1.97	1
578	.5496000E+00	.5435310E+00	.6066898E-02	1.12	1
579	.5502000E+00	.5503239E+00	-.1238736E-03	-.02	1
580	.5505000E+00	.5571777E+00	.6677743E-02	-1.20	1
581	.5543000E+00	.5640921E+00	.9792145E-02	-1.74	1
582	.5598000E+00	.5710866E+00	-.1126661E-01	-1.97	1
583	.3165000E+00	.3223565E+00	-.5865356E-02	-1.82	1
584	.3504000E+00	.3570738E+00	-.6679838E-02	-1.87	1
585	.3818000E+00	.3823184E+00	-.5183939E-03	-.14	1
586	.4050000E+00	.4090925E+00	-.4092476E-02	-1.00	1
587	.4356000E+00	.4378667E+00	.2266653E-02	-.52	1
588	.4701000E+00	.4686693E+00	.1430121E-02	.31	1
589	.5100000E+00	.5014429E+00	.8557116E-02	1.71	1
590	.5482000E+00	.5361072E+00	.1209282E-01	2.26	1
591	.5495000E+00	.5432600E+00	.6240030E-02	1.15	1
592	.5500000E+00	.5504846E+00	-.4846134E-03	-.09	1
593	.5507000E+00	.5577805E+00	-.7080510E-02	-1.27	1
594	.5555000E+00	.5651471E+00	.95647064E-02	-1.71	1
595	.5611000E+00	.5725837E+00	-.1148369E-01	-2.01	1
596	.3200000E+00	.3274334E+00	-.7433375E-02	-2.27	1
597	.3545000E+00	.3634350E+00	-.8934980E-02	-2.46	1
598	.3882000E+00	.3897130E+00	-.1513008E-02	-.39	1
599	.4170000E+00	.4175301E+00	-.6300875E-03	-.15	1
600	.4487000E+00	.4476571E+00	-.1042941E-02	.23	1

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
601	.4808000E+00	.4798182E+00	.9817511E-03	.20	1
602	.5217000E+00	.5140486E+00	.7651434E-02	1.49	1
603	.5500000E+00	.5502640E+00	-.2640495E-03	-.05	1
604	.5509000E+00	.5577379E+00	-.6837896E-02	-1.23	1
605	.5566000E+00	.5652871E+00	-.8587123E-02	-1.54	1
606	.5629000E+00	.5729111E+00	-.1001109E-01	-1.75	1
607	.3346000E+00	.3379309E+00	-.3330920E-02	-.99	1
608	.3707000E+00	.37611206E+00	.5420570E-02	-1.44	1
609	.4078000E+00	.4042828E+00	.3517162E-02	.87	1
610	.4378000E+00	.4343123E+00	.3487153E-02	.80	1
611	.4672000E+00	.4666797E+00	.5203350E-03	.11	1
612	.5026000E+00	.5013933E+00	.1206667E-02	.24	1
613	.5488000E+00	.5383748E+00	.1042524E-01	1.94	1
614	.5489000E+00	.5460347E+00	.2865267E-02	.52	1
615	.5507000E+00	.5537780E+00	-.3080784E-02	-.56	1
616	.5547000E+00	.5616121E+00	-.6912145E-02	-1.23	1
617	.5608000E+00	.5695281E+00	.8728055E-02	1.53	1
618	.3455000E+00	.3529218E+00	-.7421817E-02	-2.10	1
619	.3857000E+00	.3934301E+00	-.7730096E-02	-1.98	1
620	.4254000E+00	.4231298E+00	.1570151E-02	.37	1
621	.4555000E+00	.4532281E+00	.2271932E-02	.50	1
622	.4925000E+00	.4917256E+00	.7740002E-03	.16	1
623	.5342000E+00	.5298456E+00	.4554213E-02	.86	1
624	.5438000E+00	.5375381E+00	.6261853E-02	1.16	1
625	.5494000E+00	.5455312E+00	.3868825E-02	.71	1
626	.5501000E+00	.5536239E+00	-.3523933E-02	-.64	1
627	.2925000E+00	.2957529E+00	-.3252913E-02	-1.10	1
628	.3190000E+00	.3237508E+00	-.4750782E-02	-1.47	1
629	.3473000E+00	.3446647E+00	.2635282E-02	.76	1
630	.3665000E+00	.3645825E+00	.1917467E-02	.53	1
631	.3885000E+00	.3912767E+00	-.2776652E-02	-.71	1
632	.4140000E+00	.4185651E+00	-.4565077E-02	-1.09	1
633	.4415000E+00	.4450196E+00	-.3519600E-02	.79	1
634	.4721000E+00	.4744096E+00	-.2309572E-02	-.49	1
635	.5066000E+00	.5053786E+00	.1221406E-02	.24	1
636	.5159000E+00	.5117758E+00	-.4144229E-02	.81	1
637	.5240000E+00	.5181929E+00	.5807149E-02	1.12	1
638	.5315000E+00	.5246693E+00	.6810670E-02	1.30	1
639	.5385000E+00	.5312447E+00	.7255285E-02	1.37	1
640	.3005000E+00	.3046348E+00	-.4134770E-02	-1.36	1
641	.3310000E+00	.3358645E+00	-.4864492E-02	-1.45	1
642	.3601000E+00	.3592593E+00	.8406809E-03	.23	1
643	.3867000E+00	.3843456E+00	.2354423E-02	.61	1
644	.4112000E+00	.4114682E+00	-.2582159E-03	-.07	1
645	.4354000E+00	.4405154E+00	-.5215408E-02	-1.18	1
646	.4636500E+00	.4717097E+00	-.5209706E-02	-1.10	1
647	.5086000E+00	.5046634E+00	.3936579E-02	.78	1
648	.5182000E+00	.5114698E+00	.6730220E-02	1.32	1
649	.5259000E+00	.51832465E+00	.75533510E-02	1.46	1
650	.5328000E+00	.5252929E+00	.7507079E-02	1.43	1

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
651	.5402000E+00	.5323085E+00	.7891542E-02	1.48	1
652	.3082000E+00	.3088411E+00	-.6411234E-03	-.21	1
653	.3393000E+00	.3413580E+00	-.2057974E-02	-.60	1
654	.3698000E+00	.3657923E+00	.4107732E-02	1.12	1
655	.3958000E+00	.3920215E+00	.3378471E-02	.99	1
656	.4176000E+00	.4203970E+00	-.2796961E-02	-.67	1
657	.4460000E+00	.4509021E+00	-.4502118E-02	-1.09	1
658	.4797000E+00	.4834537E+00	-.3753728E-02	-.78	1
659	.5273000E+00	.5179586E+00	.9341374E-02	1.80	1
660	.5343000E+00	.5250860E+00	.9213954E-02	1.75	1
661	.3172000E+00	.3175167E+00	-.3167340E-03	-.10	1
662	.3511000E+00	.3522216E+00	-.1121630E-02	-.32	1
663	.3832000E+00	.37855402E+00	-.4659837E-02	1.23	1
664	.4074000E+00	.4068824E+00	.5176460E-03	.13	1
665	.4343000E+00	.4375976E+00	-.3297633E-02	-.75	1
666	.4667000E+00	.4706553E+00	-.3355267E-02	-.84	1
667	.5107000E+00	.5059580E+00	.4742015E-02	.94	1
668	.5196000E+00	.5132786E+00	.6221404E-02	1.23	1
669	.5286000E+00	.5206839E+00	.7916053E-02	1.52	1
670	.3270000E+00	.3298432E+00	-.2843203E-02	-.86	1
671	.3621000E+00	.3668166E+00	-.4766727E-02	-1.30	1
672	.3375000E+00	.33954227E+00	.2077255E-02	.53	1
673	.4247000E+00	.4263530E+00	-.1652993E-02	-.39	1
674	.4562000E+00	.4593795E+00	-.3779519E-02	-.82	1
675	.4940000E+00	.4962433E+00	-.2243293E-02	-.45	1
676	.5029000E+00	.5038021E+00	.9021059E-03	-.18	1
677	.2648000E+00	.27022749E+00	-.5474920E-02	-2.03	1
678	.2898000E+00	.2922069E+00	-.2406888E-02	-.82	1
679	.3133000E+00	.3099423E+00	.3357376E-02	1.08	1
680	.3333000E+00	.3294524E+00	.3847610E-02	1.17	1
681	.3508000E+00	.3508412E+00	-.4133619E-04	-.01	1
682	.3722000E+00	.3740291E+00	-.1829118E-02	-.49	1
683	.39564000E+00	.3981575E+00	-.2515674E-02	-.63	1
684	.4242000E+00	.4254071E+00	-.1207088E-02	-.28	1
685	.4510000E+00	.4534199E+00	-.2419898E-02	-.53	1
686	.4574000E+00	.4591984E+00	-.1798408E-02	-.35	1
687	.2750000E+00	.2764946E+00	-.1496028E-02	-.54	1
688	.3019000E+00	.3016598E+00	.2401513E-03	.08	1
689	.3259000E+00	.3218761E+00	.40223885E-02	1.25	1
690	.3449000E+00	.34460591E+00	.8309294E-03	.24	1
691	.3667000E+00	.3683722E+00	-.1672150E-02	-.45	1
692	.3915000E+00	.3947009E+00	-.3200860E-02	-.81	1
693	.4201000E+00	.4229450E+00	-.2845030E-02	-.67	1
694	.4525000E+00	.4530002E+00	-.5001871E-03	-.11	1
695	.4589000E+00	.4592201E+00	-.3201264E-03	-.07	1
696	.2783000E+00	.2795965E+00	-.1296528E-02	.46	1
697	.3054000E+00	.3060475E+00	-.6474779E-03	-.21	1
698	.3312000E+00	.3273032E+00	.3896789E-02	1.19	1
699	.3517000E+00	.3506392E+00	.1060831E-02	.30	1
700	.3749000E+00	.3761950E+00	-.1295042E-02	-.34	1

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
701	.4014000E+00	.4038817E+00	-.2481717E-02	-.61	1
702	.4317000E+00	.4335832E+00	-.1883200E-02	-.43	1
703	.4380000E+00	.4397554E+00	-.1755396E-02	-.40	1
704	.4446000E+00	.4460029E+00	-.1402923E-02	-.31	1
705	.4517000E+00	.4523250E+00	-.6249753E-03	-.14	1
706	.2865000E+00	.2862870E+00	.2129995E-03	.07	1
707	.3150000E+00	.3149260E+00	.7400523E-04	.02	1
708	.3425000E+00	.3380660E+00	.4434032E-02	1.31	1
709	.3654000E+00	.3635149E+00	.1885144E-02	.52	1
710	.3914000E+00	.3914106E+00	-.1057574E-04	-.00	1
711	.4209000E+00	.4216497E+00	-.7497280E-03	-.18	1
712	.4274000E+00	.4279673E+00	-.5672624E-03	-.13	1
713	.4339000E+00	.4343723E+00	-.4722798E-03	-.11	1
714	.4405000E+00	.4408638E+00	-.3637778E-03	-.08	1
715	.2987000E+00	.2962936E+00	.2406375E-02	.81	1
716	.3299000E+00	.3272512E+00	.2648752E-02	.81	1
717	.3571000E+00	.3526287E+00	.4471295E-02	1.27	1
718	.3831000E+00	.3806557E+00	.2434348E-02	.64	1
719	.4114000E+00	.4114726E+00	.3273626E-03	.08	1
720	.4178000E+00	.4179556E+00	-.1555999E-03	-.04	1
721	.4245000E+00	.4245429E+00	-.5428603E-03	-.13	1
722	.4307000E+00	.4312332E+00	-.5331605E-03	-.12	1
723	.2515000E+00	.2533875E+00	-.1887525E-02	-.74	1
724	.2724000E+00	.2704584E+00	.1941597E-02	.72	1
725	.2867000E+00	.2856938E+00	.1006236E-02	.35	1
726	.3021000E+00	.3029537E+00	-.8536977E-03	-.28	1
727	.3212000E+00	.3221678E+00	-.8677770E-03	-.30	1
728	.3417000E+00	.3431952E+00	.1495190E-02	.44	1
729	.3645000E+00	.3659080E+00	-.1408000E-02	-.38	1
730	.3915000E+00	.3901977E+00	.1302330E-02	.33	1
731	.3965000E+00	.3952365E+00	.1263502E-02	.32	1
732	.4015000E+00	.4003340E+00	.1165975E-02	.29	1
733	.4069000E+00	.4054896E+00	.1410393E-02	.35	1
734	.4125000E+00	.4107026E+00	.1797377E-02	.44	1
735	.4184000E+00	.4159725E+00	.2427534E-02	.58	1
736	.2572000E+00	.2581205E+00	.9205389E-03	-.36	1
737	.2798000E+00	.2784233E+00	.1476731E-02	.53	1
738	.2977000E+00	.2961395E+00	.1560479E-02	.53	1
739	.3163000E+00	.3160823E+00	.2177154E-03	.07	1
740	.3372000E+00	.3382105E+00	-.1010497E-02	-.30	1
741	.3606000E+00	.3623788E+00	-.1778838E-02	-.49	1
742	.3880000E+00	.3884493E+00	-.4492621E-03	-.12	1
743	.3940000E+00	.3938808E+00	.1192113E-03	.03	1
744	.4002000E+00	.3993827E+00	.8172842E-03	.20	1
745	.4066000E+00	.4049542E+00	.1645792E-02	.41	1
746	.4131000E+00	.4105945E+00	.2505544E-02	.61	1
747	.2604000E+00	.2609385E+00	.5384759E-03	-.21	1
748	.2838000E+00	.2825283E+00	.1271665E-02	.45	1
749	.3036000E+00	.3012841E+00	.2315947E-02	.77	1
750	.3233000E+00	.3223698E+00	.9301802E-03	.29	1

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
751	.3451000E+00	.3457508E+00	-.6508259E-03	-.19	1
752	.3704000E+00	.3712771E+00	-.8771317E-03	-.24	1
753	.3998000E+00	.3988049E+00	.9951317E-03	.25	1
754	.4062000E+00	.4045393E+00	.1660713E-02	.41	1
755	.2669000E+00	.2678555E+00	-.9554510E-03	-.36	1
756	.2922000E+00	.2916334E+00	.5666454E-03	.19	1
757	.3157000E+00	.3122733E+00	.3426688E-02	1.10	1
758	.3369000E+00	.3354720E+00	.1427991E-02	.43	1
759	.3613000E+00	.3611929E+00	.1071379E-03	.03	1
760	.3897000E+00	.3892716E+00	.4283546E-03	.11	1
761	.3958000E+00	.3951561E+00	.6439028E-03	.16	1
762	.2765000E+00	.2795542E+00	-.3054249E-02	-.109	1
763	.3034000E+00	.3055508E+00	-.2250781E-02	-.74	1
764	.3299000E+00	.3285282E+00	.1371777E-02	.42	1
765	.3538000E+00	.3543150E+00	-.5149773E-03	-.15	1
766	.3595000E+00	.3598198E+00	-.3197625E-03	-.09	1
767	.3647000E+00	.3654370E+00	-.7369711E-03	-.20	1
768	.3701000E+00	.3711650E+00	-.1065000E-02	-.29	1
769	.3757000E+00	.3770022E+00	-.1302240E-02	-.35	1
770	.3814000E+00	.3829471E+00	-.1547097E-02	-.40	1

FRIDAY, JUL 2, 1976

MAXIMUM RESIDUAL (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
576	.5211000E+00	.5040832E+00	.1701679E-01	3.98	1

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
1	.3265000E+00	.3115843E+00	.1491571E-01	4.79
2	.3426000E+00	.3346296E+00	.8970352E-02	2.68
3	.3605000E+00	.3572679E+00	.3232057E-02	.90
4	.3802000E+00	.3801138E+00	.8619309E-04	.02
5	.4021000E+00	.4064744E+00	-.4374432E-02	-1.08
6	.4315000E+00	.4351379E+00	-.3637855E-02	-.84
7	.4661000E+00	.4659642E+00	.1357892E-03	.03
8	.5010000E+00	.4988272E+00	.2172758E-02	.44
9	.5415000E+00	.5336168E+00	.7883199E-02	1.48
10	.5491000E+00	.5407972E+00	-.8302759E-02	1.54
11	.5504000E+00	.5480502E+00	.2349831E-02	.43
12	.5501000E+00	.5553749E+00	-.5274898E-02	-.95
13	.5536000E+00	.5627708E+00	-.9170762E-02	-1.63
14	.5398000E+00	.5203332E+00	.9466757E-02	2.96
15	.3458000E+00	.3494603E+00	-.3660280E-02	-1.05
16	.3704000E+00	.3734996E+00	-.3095570E-02	-.83
17	.3989000E+00	.4001141E+00	-.1214110E-02	-.30
18	.4295000E+00	.4293907E+00	.2092279E-03	.05
19	.4608000E+00	.4611965E+00	-.3965211E-03	-.09
20	.4952000E+00	.4953816E+00	-.1816360E-03	-.04
21	.5440000E+00	.5318093E+00	.1219069E-01	2.29
22	.5491000E+00	.5393531E+00	.9746882E-02	1.81
23	.5499000E+00	.5469809E+00	.2919102E-02	.53
24	.5499000E+00	.5546918E+00	-.4791795E-02	-.86
25	.5549000E+00	.5624850E+00	-.7584975E-02	-1.35
26	.3320000E+00	.3257524E+00	.6237646E-02	1.91
27	.3515000E+00	.3533257E+00	-.1825674E-02	-.52
28	.3814000E+00	.3812588E+00	.1411544E-03	.04
29	.4114000E+00	.4090162E+00	.2383811E-02	.58
30	.4406000E+00	.4395450E+00	.1055042E-02	.24
31	.4730000E+00	.4722981E+00	.7019189E-03	.15
32	.5128000E+00	.5083489E+00	.4451067E-02	.88
33	.5489000E+00	.5463263E+00	.3572696E-02	.65
34	.5510000E+00	.5541908E+00	-.3190846E-02	-.58
35	.5561000E+00	.5621429E+00	.6042877E-02	-1.07
36	.3435000E+00	.3368458E+00	.8454194E-02	2.51
37	.3728000E+00	.3694550E+00	.3345022E-02	.91
38	.4011000E+00	.3964171E+00	.4682883E-02	1.18
39	.4282000E+00	.4262844E+00	.1915621E-02	.45
40	.4568000E+00	.4591488E+00	-.2348786E-02	-.51
41	.4941000E+00	.4948589E+00	-.7588824E-03	-.15
42	.5441000E+00	.5322452E+00	.1085484E-01	2.04
43	.5490000E+00	.5412296E+00	.7770359E-02	1.44
44	.5502000E+00	.5493138E+00	.8862113E-03	.18
45	.3618000E+00	.3524002E+00	.9399819E-02	2.67
46	.3895000E+00	.3876612E+00	.1838837E-02	.47
47	.4200000E+00	.4190978E+00	.9022477E-03	.22
48	.4440000E+00	.4437276E+00	.2724296E-03	.06
49	.4850000E+00	.4847345E+00	.2655433E-03	.05
50	.5252000E+00	.5236379E+00	.1562059E-02	.30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
51	.5353000E+00	.5317780E+00	.3521954E-02	.66
52	.2986000E+00	.2928315E+00	.5768513E-02	1.97
53	.3170000E+00	.3158508E+00	.1149248E-02	.36
54	.3345000E+00	.3355070E+00	-.1007039E-02	-.30
55	.3545000E+00	.3555713E+00	-.1071294E-02	-.30
56	.3818000E+00	.3818115E+00	-.1145991E-04	-.00
57	.4091000E+00	.4083175E+00	.7825483E-03	.19
58	.4375000E+00	.4379268E+00	-.4268027E-02	-.10
59	.4667000E+00	.4673471E+00	.6471156E-02	-.14
60	.4960000E+00	.4963933E+00	.3639332E-02	.73
61	.5029000E+00	.5063073E+00	.3407324E-02	.67
62	.5100000E+00	.5104353E+00	.3043542E-02	.59
63	.5183000E+00	.5198472E+00	.1547327E-02	.30
64	.3036000E+00	.3026538E+00	.9462102E-03	.31
65	.3272000E+00	.3289141E+00	.1714253E-02	.52
66	.3527000E+00	.3510549E+00	.1645062E-02	.47
67	.3778000E+00	.3757274E+00	.2072551E-02	.55
68	.4018000E+00	.4029560E+00	-.1160618E-02	-.29
69	.4279000E+00	.4326090E+00	.4708987E-02	-1.09
70	.4579000E+00	.4645211E+00	.6621088E-02	-1.43
71	.4978000E+00	.4985621E+00	.7620561E-03	-.15
72	.5044000E+00	.5056151E+00	.1215137E-02	-.24
73	.5117000E+00	.5127478E+00	.1047793E-02	-.20
74	.3128000E+00	.3072220E+00	.5578026E-02	1.82
75	.3360000E+00	.3347727E+00	.1227332E-02	.37
76	.3615000E+00	.3579533E+00	.3546714E-02	.99
77	.3844000E+00	.3837686E+00	.6313987E-03	.16
78	.4101000E+00	.4122539E+00	.2153928E-02	-.52
79	.4384000E+00	.4432593E+00	.4459292E-02	-1.10
80	.4719000E+00	.4766275E+00	.4727458E-02	-.99
81	.4802000E+00	.4835719E+00	.3371942E-02	-.70
82	.4891000E+00	.4906042E+00	.1504235E-02	-.31
83	.4979000E+00	.4977723E+00	.1766609E-02	.04
84	.5061000E+00	.5049428E+00	.1171718E-02	.23
85	.5132000E+00	.5122181E+00	.9818802E-03	.19
86	.3260000E+00	.3197157E+00	.6284270E-02	1.97
87	.3472000E+00	.3462263E+00	.9727087E-03	.28
88	.3727000E+00	.3712898E+00	.1410176E-02	.38
89	.3992000E+00	.3992151E+00	.4849418E-03	.12
90	.4267000E+00	.4300360E+00	.3336023E-02	-.78
91	.4596000E+00	.4635887E+00	.3988688E-02	-.86
92	.4670000E+00	.4706117E+00	.3611675E-02	-.77
93	.4741000E+00	.4777357E+00	.3635732E-02	-.76
94	.4822000E+00	.4849598E+00	.2759605E-02	-.57
95	.4912000E+00	.4922821E+00	.1082074E-02	-.22
96	.5012000E+00	.4997020E+00	.1498045E-02	.30
97	.3384000E+00	.3293717E+00	.9028293E-02	2.74
98	.3623000E+00	.3614341E+00	.8656778E-03	.24
99	.3900000E+00	.3887294E+00	.1270618E-02	.33
100	.4171000E+00	.4192340E+00	.-2133990E-02	-.51

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
101	.4491000E+00	.4529553E+00	-.3855332E-02	-.85
102	.4558000E+00	.4600690E+00	-.4269049E-02	-.93
103	.4634000E+00	.4573021E+00	-.3902095E-02	-.84
104	.4712000E+00	.4746529E+00	-.3452872E-02	-.73
105	.4791000E+00	.4821198E+00	-.3019812E-02	-.63
106	.2671000E+00	.2574702E+00	-.3701501E-03	-.14
107	.2861000E+00	.2851084E+00	-.9916489E-03	.35
108	.3049000E+00	.3016112E+00	-.3288817E-02	1.09
109	.3231000E+00	.3205480E+00	.2552001E-02	.80
110	.3416000E+00	.3417655E+00	-.1654802E-03	-.05
111	.3635000E+00	.3650764E+00	-.1576350E-02	-.43
112	.3889000E+00	.3903218E+00	-.1421796E-02	-.36
113	.4186000E+00	.4173708E+00	-.1229176E-02	.29
114	.4238000E+00	.4229871E+00	-.8128604E-03	.19
115	.4294000E+00	.4286704E+00	-.7295985E-03	.17
116	.4352000E+00	.4344199E+00	.7801479E-03	.18
117	.4411000E+00	.4402348E+00	-.8652417E-03	.20
118	.4473000E+00	.4461144E+00	-.1185590E-02	.27
119	.2784000E+00	.2746377E+00	-.3762325E-02	1.37
120	.3000000E+00	.2955171E+00	-.4482928E-02	1.52
121	.3168000E+00	.3145043E+00	-.2295696E-02	.73
122	.3363000E+00	.3361264E+00	-.1733063E-03	.05
123	.3584000E+00	.3602599E+00	-.1859861E-02	-.52
124	.3838000E+00	.3867131E+00	-.2913108E-02	-.75
125	.4138000E+00	.4153173E+00	-.1517313E-02	-.37
126	.4205000E+00	.4212834E+00	-.7833859E-03	-.19
127	.4271000E+00	.4273288E+00	-.2287519E-03	-.05
128	.4338000E+00	.4334524E+00	-.3475674E-03	.08
129	.4410000E+00	.4396535E+00	-.1346518E-02	.31
130	.4488000E+00	.4459310E+00	.2869013E-02	.64
131	.2847000E+00	.2809889E+00	-.3711094E-02	1.32
132	.3052000E+00	.3002711E+00	-.4928904E-02	1.64
133	.3229000E+00	.3202983E+00	-.2601741E-02	.81
134	.3432000E+00	.3430632E+00	-.1368474E-03	.04
135	.3670000E+00	.3684488E+00	-.1448778E-02	-.39
136	.3943000E+00	.3962590E+00	-.1959020E-02	.49
137	.4259000E+00	.4263193E+00	-.4192901E-03	-.10
138	.4327000E+00	.4325880E+00	-.1120250E-03	.02
139	.4396000E+00	.4389397E+00	-.6603443E-03	.15
140	.2903000E+00	.2853784E+00	-.4921566E-02	1.72
141	.3126000E+00	.3097404E+00	-.2660031E-02	.92
142	.3345000E+00	.3316500E+00	-.2849953E-02	.86
143	.3575000E+00	.3565249E+00	.9751411E-03	.27
144	.3845000E+00	.3842461E+00	-.2531878E-02	.07
145	.4153000E+00	.4146037E+00	-.6963249E-03	.17
146	.4216000E+00	.4209744E+00	-.6255936E-03	.15
147	.4283000E+00	.4274416E+00	-.8583856E-03	.20
148	.3020000E+00	.2959427E+00	-.6057287E-02	2.05
149	.3250000E+00	.3226241E+00	-.2375936E-02	.74
150	.3496000E+00	.3467659E+00	-.2834132E-02	.82

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
151	.3760000E+00	.3742201E+00	.1779945E-02	.48
152	.4065000E+00	.4048417E+00	-.1658304E-02	.41
153	.4126000E+00	.4113248E+00	.1275185E-02	.31
154	.2520000E+00	.2507266E+00	-.1273443E-02	.51
155	.2647000E+00	.2634531E+00	.1246863E-02	.47
156	.2782000E+00	.2776609E+00	.5391446E-03	.19
157	.2939000E+00	.2946588E+00	-.7587617E-03	-.26
158	.3116000E+00	.3140928E+00	-.2492788E-02	-.79
159	.3340000E+00	.3357015E+00	-.1701524E-02	-.51
160	.3577000E+00	.3592289E+00	-.1589916E-02	-.44
161	.3858000E+00	.3847065E+00	-.1093521E-02	.28
162	.3908000E+00	.3899980E+00	.8019532E-03	.21
163	.3962000E+00	.3953563E+00	-.8430530E-03	.21
164	.4019000E+00	.4007824E+00	-.1117648E-02	.28
165	.2585000E+00	.2564120E+00	-.2088050E-02	.81
166	.2734000E+00	.2723797E+00	-.1020222E-02	.37
167	.2897000E+00	.2890718E+00	.6281552E-03	.22
168	.3083000E+00	.3087550E+00	-.4550243E-03	-.15
169	.3298000E+00	.3311050E+00	-.1305036E-02	-.39
170	.3539000E+00	.3558561E+00	-.1956149E-02	-.55
171	.3822000E+00	.3828033E+00	-.6033009E-03	.16
172	.3884400E+00	.3884414E+00	-.4140207E-04	-.01
173	.3948000E+00	.3941598E+00	-.6403610E-03	.16
174	.2619000E+00	.2595946E+00	-.2305370E-02	.89
175	.2783000E+00	.2768526E+00	-.1447361E-02	.52
176	.2956000E+00	.2945847E+00	-.1015311E-02	.34
177	.3160000E+00	.3154107E+00	.5893279E-03	.19
178	.3382000E+00	.3390128E+00	-.8128421E-03	-.24
179	.3639000E+00	.3651210E+00	-.1220951E-02	-.33
180	.3696000E+00	.3706239E+00	-.1023875E-02	-.28
181	.3754000E+00	.3762170E+00	-.8170173E-03	-.22
182	.3815000E+00	.3818990E+00	-.3989891E-03	.10
183	.3878000E+00	.3876685E+00	-.1315371E-03	.03
184	.2691000E+00	.2670985E+00	-.2001532E-02	.75
185	.2887000E+00	.2865484E+00	-.2151618E-02	.75
186	.3083000E+00	.3061613E+00	.2136653E-02	.70
187	.3304000E+00	.3290592E+00	.1300751E-02	.40
188	.3550000E+00	.3550371E+00	-.3705634E-04	-.01
189	.3605000E+00	.3605587E+00	-.5869163E-04	-.02
190	.3661000E+00	.3661869E+00	-.8687571E-04	-.02
191	.3719000E+00	.3719197E+00	-.1974037E-04	-.01
192	.3779000E+00	.3777555E+00	-.1444961E-03	.04
193	.2821000E+00	.2815412E+00	.5588450E-03	.20
194	.3033000E+00	.3011207E+00	-.21793278E-02	.72
195	.3236000E+00	.3229574E+00	.6325867E-03	.20
196	.3477000E+00	.3484827E+00	-.7826901E-03	-.22
197	.3529000E+00	.3539955E+00	-.1095506E-02	.31
198	.3584000E+00	.3596383E+00	-.1238287E-02	-.34
199	.3641000E+00	.3654084E+00	-.1308420E-02	-.36
200	.3057000E+00	.3054602E+00	-.2397693E-03	.08

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
201	.3284000E+00	.3257072E+00	.2692846E-02	.83
202	.3476000E+00	.3460557E+00	.1543301E-02	.45
203	.3715000E+00	.3725652E+00	-.1069179E-02	-.29
204	.3930000E+00	.3967088E+00	-.3703756E-02	-.93
205	.4240000E+00	.4271334E+00	-.3133381E-02	-.73
206	.4592000E+00	.4586574E+00	.5425640E-03	.12
207	.4919000E+00	.4933128E+00	-.1412839E-02	-.29
208	.5292000E+00	.5302091E+00	-.1009106E-02	-.19
209	.5419000E+00	.5378458E+00	.4054232E-02	.75
210	.5488000E+00	.5455660E+00	.3233986E-02	.59
211	.5498000E+00	.5533690E+00	-.3569021E-02	-.64
212	.5094000E+00	.5180095E+00	-.8609478E-02	-2.71
213	.3344000E+00	.3414976E+00	.7097559E-02	-2.08
214	.3620000E+00	.3643315E+00	-.2331542E-02	-.64
215	.3920000E+00	.3907923E+00	.1207720E-02	.31
216	.4220000E+00	.4205849E+00	.1415132E-02	.34
217	.4503000E+00	.4534128E+00	-.3112829E-02	-.69
218	.4854000E+00	.4890347E+00	-.3634675E-02	-.74
219	.5325000E+00	.5272547E+00	.5245276E-02	.99
220	.5439000E+00	.5351958E+00	.8704171E-02	1.63
221	.5494000E+00	.5432332E+00	.6166821E-02	1.14
222	.5502000E+00	.5513657E+00	-.1165660E-02	-.21
223	.3174000E+00	.3238065E+00	-.6406452E-02	-1.98
224	.3455000E+00	.3485848E+00	-.3084804E-02	-.88
225	.3743000E+00	.3724587E+00	.1841320E-02	.49
226	.4040000E+00	.4000622E+00	.3937778E-02	.88
227	.4350000E+00	.4342317E+00	.7683300E-03	.18
228	.4650000E+00	.4687020E+00	-.3701983E-02	-.79
229	.5026000E+00	.5023699E+00	.2301644E-03	.05
230	.5495000E+00	.5421396E+00	.7360422E-02	1.36
231	.5498000E+00	.5504014E+00	.6014202E-03	-.11
232	.3264000E+00	.3354824E+00	.9175635E-03	.27
233	.3647000E+00	.3624527E+00	.2247307E-02	.62
234	.3835000E+00	.3882095E+00	.5290516E-02	1.36
235	.4180000E+00	.4152021E+00	.2697918E-02	.65
236	.4480000E+00	.4475614E+00	.4385848E-03	.10
237	.4892000E+00	.4880256E+00	.1164413E-02	.24
238	.4987000E+00	.4957604E+00	.2339633E-02	.59
239	.5068000E+00	.5036068E+00	.3193212E-02	.63
240	.5156000E+00	.5115731E+00	.4026914E-02	.79
241	.5257000E+00	.5196576E+00	.6042434E-02	1.16
242	.5361000E+00	.5277858E+00	.8241401E-02	1.56
243	.3512000E+00	.3515973E+00	.1602707E-02	.46
244	.3807000E+00	.3808874E+00	-.1873661E-03	-.05
245	.4070000E+00	.4088759E+00	-.1875884E-02	-.46
246	.4382000E+00	.4411687E+00	-.2958719E-02	-.67
247	.4759000E+00	.4774495E+00	.1549481E-02	-.32
248	.4854000E+00	.4851530E+00	.2470342E-03	.05
249	.4939000E+00	.4929996E+00	.9004170E-03	.18
250	.5022000E+00	.5009870E+00	.1213025E-02	.24

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
251	.5103000E+00	.5091129E+00	.1187121E-02	.23
252	.5189000E+00	.5173751E+00	.1524874E-02	.29
253	.2848000E+00	.2896095E+00	-.4809502E-02	-1.66
254	.3048000E+00	.3076086E+00	-.2808616E-02	-.91
255	.3275000E+00	.3267166E+00	.7834483E-03	.24
256	.3474000E+00	.3475700E+00	-.1700144E-03	-.05
257	.3734000E+00	.3720009E+00	.1399059E-02	.38
258	.3985000E+00	.3980157E+00	-.5156597E-03	-.13
259	.4261000E+00	.4283979E+00	-.2297919E-02	-.54
260	.4579000E+00	.4615215E+00	.3631547E-02	.79
261	.4896000E+00	.4936085E+00	.4088470E-02	.81
262	.4965000E+00	.5005710E+00	.4071047E-02	.81
263	.2948000E+00	.3003916E+00	.5591619E-02	-.86
264	.3197000E+00	.3216319E+00	.1931930E-02	-.60
265	.3445000E+00	.3425068E+00	.1993210E-02	.58
266	.3664000E+00	.3667630E+00	-.1630003E-03	-.10
267	.3913000E+00	.3941099E+00	.2809912E-02	.71
268	.4213000E+00	.4242670E+00	.2967009E-02	.70
269	.4521000E+00	.4570080E+00	.4980801E-02	-.07
270	.4912000E+00	.4921503E+00	.9503345E-03	.19
271	.4981000E+00	.4994533E+00	.1353289E-02	.27
272	.3015000E+00	.3053277E+00	-.3827666E-02	-.25
273	.3269000E+00	.3278582E+00	-.9582082E-03	-.29
274	.3505000E+00	.3497730E+00	.7269985E-03	.21
275	.3736000E+00	.3751720E+00	-.1572016E-02	-.42
276	.4019000E+00	.4027711E+00	-.1871086E-02	-.46
277	.4310000E+00	.4352852E+00	-.4285177E-02	-.98
278	.4652000E+00	.4694822E+00	-.4282234E-02	-.91
279	.4732000E+00	.4766264E+00	.3426415E-02	-.72
280	.4816000E+00	.4838690E+00	.2268962E-02	-.47
281	.4901000E+00	.4912085E+00	-.1108600E-02	-.23
282	.3116000E+00	.3151819E+00	.3581917E-02	-.14
283	.3365000E+00	.3395044E+00	.3404364E-02	-.00
284	.3633000E+00	.3637021E+00	.4020723E-03	.11
285	.3909000E+00	.3912110E+00	.3110049E-03	-.08
286	.4195000E+00	.4221457E+00	.2645713E-02	.63
287	.4522000E+00	.4562071E+00	.4007105E-02	.88
288	.4597000E+00	.4633721E+00	.3672064E-02	.79
289	.4676000E+00	.4706504E+00	.3050382E-02	.65
290	.4760000E+00	.4780404E+00	.2040404E-02	.43
291	.3263000E+00	.3286304E+00	.2330413E-02	.71
292	.3533000E+00	.3556727E+00	.2372677E-02	.67
293	.3810000E+00	.3817021E+00	.7021112E-03	-.18
294	.4100000E+00	.4117904E+00	.1790419E-02	-.43
295	.4418000E+00	.4455255E+00	.3825504E-02	-.86
296	.4490000E+00	.4528123E+00	.3812317E-02	-.84
297	.4565000E+00	.4601334E+00	.3633387E-02	-.79
298	.2613000E+00	.2643714E+00	.3071354E-02	-.16
299	.2780000E+00	.2756786E+00	.3213974E-03	.12
300	.2955000E+00	.2929393E+00	.2560718E-02	.87

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
301	.3128000E+00	.3112994E+00	.1500630E-02	.48
302	.3331000E+00	.3323458E+00	.7541856E-03	.23
303	.3547000E+00	.3557831E+00	-.1083059E-02	-.30
304	.3806000E+00	.3813930E+00	-.7929944E-03	-.21
305	.4117000E+00	.4090072E+00	.2692799E-02	.66
306	.4171000E+00	.4147582E+00	.2341776E-02	.56
307	.4230000E+00	.4205830E+00	.2417001E-02	.57
308	.4292000E+00	.4264806E+00	.2719388E-02	.64
309	.4356000E+00	.4324502E+00	.3149820E-02	.73
310	.2711000E+00	.2724987E+00	-.1398693E-02	-.51
311	.2892000E+00	.2890471E+00	.1528602E-03	.05
312	.3076000E+00	.3057922E+00	.8077825E-03	.26
313	.3278000E+00	.3278376E+00	-.3757907E-04	-.01
314	.3501000E+00	.3518000E+00	-.1700009E-02	-.48
315	.3763000E+00	.3783796E+00	-.2079631E-02	-.55
316	.4072000E+00	.4073483E+00	-.1483256E-02	-.04
317	.4139000E+00	.4134123E+00	.4876677E-03	.12
318	.4212000E+00	.4195634E+00	.1636607E-02	.39
319	.4284000E+00	.4258003E+00	.2599688E-02	.61
320	.2745000E+00	.2763303E+00	-.1830348E-02	-.66
321	.2956000E+00	.2941690E+00	.1430975E-02	.49
322	.3141000E+00	.3129540E+00	.1145964E-02	.37
323	.3351000E+00	.3351422E+00	-.4220128E-04	-.01
324	.3590000E+00	.3603568E+00	-.1356789E-02	-.38
325	.3874000E+00	.3882934E+00	-.8934064E-03	-.23
326	.3936000E+00	.3941858E+00	-.5858080E-03	-.15
327	.4000000E+00	.4001760E+00	-.1759793E-03	-.04
328	.4066000E+00	.4062624E+00	.3376062E-03	.08
329	.4135000E+00	.4124426E+00	.1056411E-02	.26
330	.4205000E+00	.4187182E+00	.1781834E-02	.43
331	.2825000E+00	.2841998E+00	-.1699848E-02	-.60
332	.3044000E+00	.3042304E+00	.1695659E-03	.06
333	.3265000E+00	.3248994E+00	.1601644E-02	.49
334	.3499000E+00	.3491964E+00	.7035600E-03	.20
335	.3773000E+00	.3767547E+00	.5533344E-03	.15
336	.3833000E+00	.3826176E+00	.6824309E-03	.18
337	.3895000E+00	.3886034E+00	.8965751E-03	.23
338	.3959000E+00	.3947022E+00	.1197828E-02	.30
339	.4026000E+00	.4009118E+00	.1688152E-02	.42
340	.4095000E+00	.4072306E+00	.2269415E-02	.56
341	.2929000E+00	.2953246E+00	-.2424608E-02	-.82
342	.3172000E+00	.3176750E+00	-.4750067E-03	-.15
343	.3424000E+00	.3405747E+00	.1825341E-02	.54
344	.3691000E+00	.3674521E+00	.1647882E-02	.45
345	.3750000E+00	.3732687E+00	.1731284E-02	.46
346	.3811000E+00	.3792249E+00	.1875094E-02	.49
347	.3873000E+00	.3853178E+00	.1982215E-02	.51
348	.3937000E+00	.3915446E+00	.2155403E-02	.55
349	.2456000E+00	.2477510E+00	-.2150951E-02	-.87
350	.2555000E+00	.2561047E+00	-.6046723E-03	-.24

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
351	.2705000E+00	.2692867E+00	.1213251E-02	.45
352	.2863000E+00	.2860336E+00	.2664017E-03	.09
353	.3042000E+00	.3057047E+00	-.1504720E-02	-.49
354	.3253000E+00	.3279168E+00	.2616832E-02	.80
355	.3506000E+00	.3524070E+00	-.1807016E-02	-.51
356	.3797000E+00	.3789803E+00	.7196586E-03	.19
357	.3849000E+00	.3845310E+00	.36889723E-03	.10
358	.3905000E+00	.3901578E+00	.3421902E-03	.09
359	.2521000E+00	.2542962E+00	-.2296158E-02	-.90
360	.2651000E+00	.2659911E+00	.8910774E-03	-.34
361	.2819000E+00	.2816576E+00	.2424475E-03	.09
362	.3009000E+00	.3010897E+00	-.1896748E-03	-.06
363	.3228000E+00	.3235676E+00	.8767820E-03	.27
364	.3472000E+00	.3490313E+00	-.1831272E-02	-.52
365	.3761000E+00	.3768802E+00	.7802154E-03	.21
366	.3824000E+00	.3827304E+00	-.3303867E-03	-.09
367	.2557000E+00	.2579457E+00	-.2246701E-02	-.87
368	.2701000E+00	.2708319E+00	.7318511E-03	.27
369	.2881000E+00	.2875338E+00	.5617402E-03	.20
370	.3087000E+00	.3081122E+00	.5868141E-03	.19
371	.3323000E+00	.3319525E+00	.3475485E-03	.10
372	.3575000E+00	.3586639E+00	-.1063936E-02	-.30
373	.3634000E+00	.3643250E+00	.9249890E-03	.25
374	.3694000E+00	.3700877E+00	-.6877260E-03	-.19
375	.3756000E+00	.3759504E+00	.3503948E-03	-.09
376	.2634000E+00	.2660421E+00	.2643072E-02	-.99
377	.2807000E+00	.2811201E+00	.4201269E-03	-.15
378	.3012000E+00	.2997095E+00	.1490550E-02	.50
379	.3238000E+00	.3223943E+00	.1405705E-02	.44
380	.3490000E+00	.3485692E+00	.4308018E-03	.12
381	.3545000E+00	.3541849E+00	.3151230E-03	.09
382	.3602000E+00	.3599210E+00	.2790322E-03	.08
383	.2737000E+00	.2788561E+00	-.5156077E-02	-1.85
384	.2967000E+00	.2952529E+00	.4470515E-03	.15
385	.3173000E+00	.3170740E+00	.2260017E-03	.07
386	.3419000E+00	.3423332E+00	-.4382179E-03	-.13
387	.3475000E+00	.3478645E+00	-.3645105E-03	-.10
388	.2936000E+00	.2919529E+00	.1647099E-02	.56
389	.3129000E+00	.3129582E+00	-.5815664E-04	-.02
390	.3347000E+00	.3339769E+00	.7230337E-03	.22
391	.3605000E+00	.3610157E+00	.5157224E-03	.14
392	.3864000E+00	.3862246E+00	.1753644E-03	.05
393	.4193000E+00	.4168285E+00	.2471495E-02	.59
394	.4488000E+00	.4500828E+00	-.1282818E-02	-.29
395	.4844000E+00	.4859797E+00	-.1397757E-02	-.29
396	.5174000E+00	.5238179E+00	-.6417936E-02	-1.23
397	.5285000E+00	.5316868E+00	.3186801E-02	.60
398	.5401000E+00	.5396417E+00	.4583151E-03	.08
399	.3018000E+00	.3054620E+00	-.3661962E-02	-1.20
400	.3281000E+00	.3297084E+00	-.1608426E-02	-.49

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
401	.3556000E+00	.3532116E+00	.2388427E-02	.68
402	.3846000E+00	.3804280E+00	.4171952E-02	1.10
403	.4131000E+00	.4110506E+00	.2039448E-02	.50
404	.4395000E+00	.4448088E+00	.5306798E-02	-1.19
405	.4778000E+00	.4814199E+00	.3619871E-02	.75
406	.5189000E+00	.5206995E+00	.1799456E-02	.35
407	.5315000E+00	.5288603E+00	.2639692E-02	.50
408	.3108000E+00	.3116268E+00	.8267993E-03	.27
409	.3382000E+00	.3371635E+00	.1036506E-02	.31
410	.3665000E+00	.3617066E+00	.4893425E-02	1.35
411	.3954000E+00	.3900658E+00	.5324156E-02	1.37
412	.4210000E+00	.4203570E+00	.6430040E-03	.15
413	.4528000E+00	.4570538E+00	.4253757E-02	.93
414	.4953000E+00	.4951229E+00	.1771051E-03	.04
415	.5054000E+00	.5030738E+00	.2326169E-02	.46
416	.5147000E+00	.5111336E+00	.3566395E-02	.70
417	.5232000E+00	.5193900E+00	.3899187E-02	.75
418	.5332000E+00	.5277574E+00	.5625896E-02	1.07
419	.3263000E+00	.3238953E+00	.2404684E-02	.74
420	.3538000E+00	.3516239E+00	.2176084E-02	.62
421	.3820000E+00	.3790499E+00	.3950088E-02	1.04
422	.4092000E+00	.4085191E+00	.6809006E-03	.17
423	.4405000E+00	.4427394E+00	.2239409E-02	.51
424	.4795000E+00	.4803900E+00	.7893511E-03	.16
425	.4832000E+00	.4883073E+00	.8926991E-03	.18
426	.4992000E+00	.4963492E+00	.2850833E-02	.57
427	.5081000E+00	.5045137E+00	.3586253E-02	.71
428	.5176000E+00	.5127993E+00	.4800690E-02	.94
429	.3393000E+00	.3405707E+00	.1270654E-02	.37
430	.3693000E+00	.3706191E+00	.1319070E-02	.36
431	.3997000E+00	.3992768E+00	.4232072E-03	.11
432	.4302000E+00	.43223254E+00	.2125355E-02	.49
433	.4671000E+00	.4694460E+00	.2346042E-02	.50
434	.4761000E+00	.4773271E+00	.1227095E-02	.26
435	.4856000E+00	.4853544E+00	.2456243E-03	.05
436	.2747000E+00	.2765333E+00	.1833335E-02	.66
437	.2919000E+00	.2959096E+00	.4009555E-02	-1.35
438	.3168000E+00	.3149087E+00	.1891257E-02	.60
439	.3400000E+00	.3369729E+00	.3027093E-02	.90
440	.3632000E+00	.36118415E+00	.1358474E-02	.38
441	.3879000E+00	.3884443E+00	.5442512E-03	.14
442	.4187000E+00	.4190267E+00	.3267156E-03	.08
443	.4523000E+00	.4509729E+00	.1327067E-02	.29
444	.4580000E+00	.4576115E+00	.3885495E-03	.08
445	.4641000E+00	.46443307E+00	.2307089E-03	.05
446	.4704000E+00	.4711298E+00	.7297701E-03	.15
447	.4770000E+00	.4786077E+00	.1007772E-02	.21
448	.4838000E+00	.4849637E+00	.1163701E-02	.24
449	.2884000E+00	.2882753E+00	.1247351E-03	.04
450	.3109000E+00	.3108927E+00	.7317071E-05	.00

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
451	.3341000E+00	.3323763E+00	.1723730E-02	.52
452	.3559000E+00	.3571257E+00	.1225707E-02	-.34
453	.3820000E+00	.3849103E+00	.2910311E-02	-.76
454	.4123000E+00	.4154723E+00	.3172258E-02	-.76
455	.4452000E+00	.4485966E+00	.3396638E-02	-.76
456	.4526000E+00	.4555129E+00	.2912941E-02	-.64
457	.4601000E+00	.4625234E+00	.2423336E-02	-.52
458	.4685000E+00	.46956267E+00	.1126893E-02	-.24
459	.4770000E+00	.4768218E+00	.1782202E-03	.04
460	.4855000E+00	.4841075E+00	.1392498E-02	-.29
461	.2942000E+00	.2935792E+00	.6208246E-03	.21
462	.3178000E+00	.3174858E+00	.3131758E-03	.10
463	.3399000E+00	.3400103E+00	.1103446E-03	.03
464	.3645000E+00	.3659026E+00	.1402586E-02	-.38
465	.3923000E+00	.3949333E+00	.2639348E-02	-.67
466	.4233000E+00	.4268583E+00	.3558290E-02	-.83
467	.4587000E+00	.4614387E+00	.2738735E-02	-.59
468	.4668000E+00	.4686576E+00	.1857648E-02	-.40
469	.4754000E+00	.4759744E+00	.5743833E-03	-.12
470	.3026000E+00	.3040260E+00	.1425959E-02	-.47
471	.3287000E+00	.3301255E+00	.1425513E-02	-.43
472	.3546000E+00	.3545319E+00	.6805208E-04	.02
473	.3817000E+00	.3825341E+00	.8341077E-03	-.22
474	.4125000E+00	.4139065E+00	.1406508E-02	-.34
475	.4456000E+00	.4483728E+00	.2727251E-02	-.62
476	.4532000E+00	.4556158E+00	.2415845E-02	-.53
477	.3163000E+00	.3180349E+00	.1734936E-02	-.55
478	.3437000E+00	.3464543E+00	.2754307E-02	-.79
479	.3730000E+00	.3730925E+00	.9246825E-04	.02
480	.4032000E+00	.4036740E+00	.4740028E-03	-.12
481	.4091000E+00	.4102435E+00	.11143537E-02	-.28
482	.4152000E+00	.4169581E+00	.11758088E-02	-.42
483	.4216000E+00	.4238151E+00	.2215113E-02	-.92
484	.4281000E+00	.4308121E+00	.2712141E-02	-.63
485	.4351000E+00	.4379468E+00	.2846768E-02	-.65
486	.2542000E+00	.25215757E+00	.2042489E-02	.81
487	.2690000E+00	.2675311E+00	.1468935E-02	.55
488	.2848000E+00	.2834241E+00	.1375856E-02	.49
489	.3036000E+00	.3021170E+00	.1482967E-02	.49
490	.3241000E+00	.3233164E+00	.7836121E-03	.24
491	.3464000E+00	.3467761E+00	.3761313E-03	-.11
492	.3727000E+00	.3732051E+00	.3949477E-03	.11
493	.4046000E+00	.3997516E+00	.4848397E-02	1.21
494	.4104000E+00	.4054598E+00	.4940220E-02	1.22
495	.4166000E+00	.4112388E+00	.5361210E-02	1.30
496	.4232000E+00	.4170878E+00	.6112210E-02	1.47
497	.2623000E+00	.2612447E+00	.1055336E-02	.40
498	.2795000E+00	.2788594E+00	.3594156E-03	-.13
499	.2983000E+00	.2982369E+00	.6310635E-04	.02
500	.3197000E+00	.3196151E+00	.8494449E-04	.03

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
501	.3423000E+00	.3437304E+00	-.1430396E-02	.42
502	.3687000E+00	.3703325E+00	-.1632517E-02	.44
503	.4006000E+00	.3992202E+00	.1379803E-02	.35
504	.4078000E+00	.4052572E+00	.2542824E-02	.63
505	.4152000E+00	.4113779E+00	.3822137E-02	.93
506	.2667000E+00	.2654442E+00	.1255819E-02	.47
507	.2846000E+00	.2853492E+00	-.7491638E-03	.26
508	.3053000E+00	.3047656E+00	.5334247E-03	.18
509	.3274000E+00	.3272875E+00	.1124589E-03	.03
510	.3515000E+00	.3526550E+00	-.1155040E-02	.33
511	.3802000E+00	.3806142E+00	-.4141556E-03	.11
512	.3856000E+00	.3854980E+00	.2007127E-05	.00
513	.3931000E+00	.3924756E+00	.6243556E-03	.16
514	.4000000E+00	.3985457E+00	.1454276E-02	.36
515	.2754000E+00	.2739062E+00	.1493786E-02	.55
516	.2953000E+00	.2986031E+00	-.7031017E-03	.24
517	.3191000E+00	.3173034E+00	.17986572E-02	.57
518	.3429000E+00	.3419343E+00	.9565878E-03	.28
519	.3704000E+00	.3696374E+00	.7625512E-03	.21
520	.3764000E+00	.3755222E+00	.8777823E-03	.23
521	.3826000E+00	.3815170E+00	.1082961E-02	.28
522	.3891000E+00	.3876201E+00	.1479920E-02	.38
523	.2868000E+00	.2855915E+00	.1208544E-02	.42
524	.3096000E+00	.3100082E+00	-.4081598E-03	.13
525	.3356000E+00	.3335402E+00	.2059788E-02	.62
526	.3629000E+00	.3607505E+00	.2149528E-02	.60
527	.3688000E+00	.3666100E+00	.2190049E-02	.60
528	.2363000E+00	.2353394E+00	-.9943148E-04	.04
529	.2471000E+00	.2467776E+00	.1224468E-03	.13
530	.2622000E+00	.2608085E+00	.1391459E-02	.53
531	.2788000E+00	.2782139E+00	.5861389E-03	.21
532	.2973000E+00	.2984460E+00	-.1146026E-02	.38
533	.3187000E+00	.3211576E+00	.24575639E-02	.77
534	.3438000E+00	.3461041E+00	-.2304111E-02	.67
535	.3733000E+00	.3731014E+00	.1986376E-03	.05
536	.3787000E+00	.3787336E+00	-.3361505E-04	.01
537	.2439000E+00	.2440045E+00	-.1044523E-03	.04
538	.2572000E+00	.2576238E+00	.4237721E-03	.16
539	.2743000E+00	.2741392E+00	.1608418E-03	.06
540	.2939000E+00	.2942298E+00	-.3287515E-03	.11
541	.3165000E+00	.3173779E+00	.8779025E-03	.28
542	.3410000E+00	.3432319E+00	-.2231892E-02	.65
543	.3464000E+00	.3487038E+00	-.2303768E-02	.66
544	.3519000E+00	.3542718E+00	.2371807E-02	.67
545	.3577000E+00	.3599344E+00	-.2234393E-02	.62
546	.3638000E+00	.3656900E+00	.1889898E-02	.52
547	.2479300E+00	.2479229E+00	-.2285866E-04	.01
548	.2525000E+00	.2528324E+00	-.3324092E-03	.13
549	.2809000E+00	.2803877E+00	.5122712E-03	.18
550	.3018000E+00	.3016211E+00	.1788740E-03	.06

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
551	.3254000E+00	.3260214E+00	-.6214354E-03	.19
552	.3517000E+00	.3532324E+00	-.1532420E-02	.43
553	.3575000E+00	.3589878E+00	-.1487765E-02	.41
554	.2564000E+00	.2566118E+00	.2117620E-03	.08
555	.2736000E+00	.2737132E+00	-.1132174E-03	.04
556	.2943000E+00	.2931515E+00	.1148548E-02	.39
557	.3178000E+00	.3164948E+00	.1305233E-02	.41
558	.3227000E+00	.3215842E+00	.1115847E-02	.35
559	.3278000E+00	.3288054E+00	.9945502E-03	.30
560	.3328000E+00	.3321556E+00	.6444476E-03	.19
561	.3379000E+00	.3376316E+00	.2684489E-03	.08
562	.3432000E+00	.3432307E+00	-.3071447E-04	.01
563	.2675000E+00	.2698582E+00	.2485249E-02	.92
564	.2875000E+00	.2894065E+00	.1906520E-02	.66
565	.3115000E+00	.3110765E+00	.4235118E-03	.14
566	.3162000E+00	.3159402E+00	.2598137E-03	.08
567	.3211000E+00	.3209688E+00	.1312073E-03	.04
568	.3268000E+00	.3261577E+00	-.1576744E-03	.05
569	.3156000E+00	.3120274E+00	.3572610E-02	1.14
570	.3465000E+00	.3454345E+00	.1065549E-02	.31
571	.3750000E+00	.3679785E+00	.7021460E-02	1.91
572	.3965000E+00	.3903955E+00	.6104549E-02	1.56
573	.4116000E+00	.4162401E+00	-.4640099E-02	1.11
574	.4374000E+00	.4438814E+00	-.6481361E-02	1.46
575	.4734000E+00	.4732710E+00	.1290145E-03	.03
576	.5211000E+00	.5043416E+00	.1675836E-01	3.32
577	.5474000E+00	.5370245E+00	.1037550E-01	1.93
578	.5496000E+00	.5437487E+00	.5851286E-02	1.08
579	.5502000E+00	.5505343E+00	-.3343033E-03	.06
580	.5505000E+00	.5573808E+00	.68807755E-02	-1.23
581	.5543000E+00	.5642877E+00	-.9987651E-02	-1.77
582	.5598000E+00	.5712545E+00	-.1145446E-01	-2.01
583	.3165000E+00	.3226570E+00	.6157009E-02	-1.91
584	.3504000E+00	.3574230E+00	.7022960E-02	-1.96
585	.3818000E+00	.3826676E+00	-.8675990E-03	-1.23
586	.4050000E+00	.4094359E+00	-.4435939E-02	-1.08
587	.4356000E+00	.4381966E+00	.2596574E-02	-.59
588	.4701000E+00	.4689802E+00	.1119787E-02	-.24
589	.5100000E+00	.5017286E+00	.8271403E-02	1.65
590	.5482000E+00	.5363639E+00	.1183610E-01	2.21
591	.5495000E+00	.5435104E+00	.5889593E-02	1.10
592	.5500000E+00	.5507286E+00	.7226174E-03	-.13
593	.5507000E+00	.5580179E+00	.7317931E-02	-1.21
594	.5555000E+00	.5653778E+00	.9877755E-02	-1.75
595	.5611000E+00	.5728075E+00	-.1170751E-01	-2.04
596	.3200000E+00	.3277183E+00	.7718256E-02	-2.36
597	.3545000E+00	.3637744E+00	-.9274439E-02	-2.55
598	.3882000E+00	.3900590E+00	.1859011E-02	-.48
599	.4170000E+00	.4179702E+00	.9701551E-03	-.23
600	.4487000E+00	.4479829E+00	.7170521E-03	-.16

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
601	.4808000E+00	.4801235E+00	.6764182E-03	.14
602	.5217000E+00	.5143280E+00	.7371969E-02	.43
603	.5500000E+00	.5505130E+00	.5130297E-03	.09
604	.5509000E+00	.5575803E+00	.7080272E-02	-1.27
605	.5566000E+00	.5655227E+00	.8922733E-02	-1.58
606	.5629000E+00	.5731398E+00	.1023978E-01	-1.79
607	.3346000E+00	.3382092E+00	.3609176E-02	-1.07
608	.3707000E+00	.3764573E+00	.5757263E-02	-1.53
609	.4078000E+00	.4046248E+00	.3175250E-02	.78
610	.4378000E+00	.4346458E+00	.3154187E-02	.73
611	.4672000E+00	.4669942E+00	.2057587E-03	.04
612	.5026000E+00	.5015822E+00	.9178218E-03	.18
613	.5488000E+00	.5386317E+00	.1016827E-01	1.89
614	.5489000E+00	.5462847E+00	.2615334E-02	.48
615	.5507000E+00	.5540235E+00	.3323472E-02	.60
616	.5547000E+00	.5618474E+00	.7147382E-02	-1.27
617	.5608000E+00	.5697556E+00	.8955643E-02	-1.57
618	.3455000E+00	.3532031E+00	.7703070E-02	-2.18
619	.3857000E+00	.3937710E+00	.8070973E-02	-2.05
620	.4254000E+00	.4241702E+00	.1229813E-02	.29
621	.4555000E+00	.4535530E+00	.1946990E-02	.43
622	.4925000E+00	.4920194E+00	.4805676E-03	.10
623	.5342000E+00	.5293908E+00	.4299245E-02	.81
624	.5418000E+00	.5377845E+00	.6015544E-02	1.12
625	.5494000E+00	.5457685E+00	.3631476E-02	.67
626	.5501000E+00	.5538520E+00	.3752034E-02	.68
627	.2925000E+00	.2960535E+00	.3553472E-02	-1.20
628	.3190000E+00	.3240929E+00	.5052889E-02	-1.57
629	.3473000E+00	.3450150E+00	.2284999E-02	.66
630	.3665000E+00	.3649332E+00	.1566807E-02	.43
631	.3885000E+00	.3916220E+00	.3121979E-02	-.80
632	.4140000E+00	.4189009E+00	.4900891E-02	-1.17
633	.4415000E+00	.4453437E+00	.3843639E-02	-.86
634	.4721000E+00	.4747187E+00	.2618651E-02	-.55
635	.5066000E+00	.5056702E+00	.9298070E-03	.18
636	.5159000E+00	.5120436E+00	.3856399E-02	.75
637	.5240000E+00	.5184768E+00	.5523176E-02	1.07
638	.5315000E+00	.5249694E+00	.6503640E-02	1.24
639	.5385000E+00	.5315207E+00	.6979283E-02	1.31
640	.3005000E+00	.3049160E+00	.4415961E-02	-1.45
641	.3310000E+00	.3361966E+00	.5196576E-02	-1.55
642	.3601000E+00	.3596031E+00	.4969141E-03	.14
643	.3857000E+00	.3846919E+00	.2008102E-02	.52
644	.4112000E+00	.4118113E+00	.6111323E-03	-.15
645	.4354000E+00	.4409510E+00	.5550965E-02	-1.26
646	.4665000E+00	.4720342E+00	.5534175E-02	-1.17
647	.5086000E+00	.5049738E+00	.3626222E-02	.72
648	.5182000E+00	.5117770E+00	.6423016E-02	1.26
649	.5259000E+00	.51865604E+00	.7249563E-02	1.40
650	.5328000E+00	.5255935E+00	.7206490E-02	1.37

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
651	.5402000E+00	.5322605E+00	.7594410E-02	1.43
652	.3082000E+00	.3091116E+00	.9162812E-03	.30
653	.3393000E+00	.3416871E+00	.2387127E-02	-.70
654	.3699000E+00	.3661336E+00	.3766429E-02	1.03
655	.3959000E+00	.3923652E+00	.3534813E-02	.90
656	.4176000E+00	.4207368E+00	.3136570E-02	-.75
657	.4460000E+00	.4512334E+00	.5232407E-02	-1.16
658	.4787000E+00	.4837727E+00	.4072682E-02	-.84
659	.5273000E+00	.5182620E+00	.9038022E-02	1.74
660	.5343000E+00	.5253859E+00	.8914078E-02	1.70
661	.3172000E+00	.3177855E+00	.5854675E-03	-.18
662	.3511000E+00	.3525482E+00	.1448218E-02	-.41
663	.3832000E+00	.3788776E+00	.4322423E-02	1.14
664	.4074000E+00	.4072191E+00	.1808885E-03	.04
665	.4343000E+00	.4379263E+00	.3626532E-02	-.83
666	.4667000E+00	.47099703E+00	.4270270E-02	-.91
667	.5107000E+00	.5062546E+00	.4445354E-02	.88
668	.5196000E+00	.5135711E+00	.6028908E-02	1.17
669	.5288000E+00	.5209721E+00	.7627777E-02	1.46
670	.3270000E+00	.3301130E+00	.3112001E-02	-.94
671	.3621000E+00	.3671956E+00	.5095568E-02	-1.39
672	.3975000E+00	.3957567E+00	.1743348E-02	.44
673	.4247000E+00	.4286677E+00	.1977562E-02	-.46
674	.4562000E+00	.4602852E+00	.4048516E-02	-.89
675	.4940000E+00	.49855225E+00	.2522486E-02	-.51
676	.5029000E+00	.5040752E+00	.1175232E-02	-.23
677	.2648000E+00	.2705689E+00	.5768946E-02	-2.13
678	.2898000E+00	.2925381E+00	.2738100E-02	-.94
679	.3133000E+00	.3102821E+00	.3016917E-02	.97
680	.3333000E+00	.3297956E+00	.1503172E-02	1.06
681	.3508000E+00	.3511851E+00	.3851460E-03	.11
682	.3722000E+00	.3743896E+00	.2169641E-02	-.58
683	.3964000E+00	.3952506E+00	.1285059E-02	-.71
684	.4242000E+00	.4257344E+00	.1534446E-02	-.36
685	.4510000E+00	.4537380E+00	.27379367E-02	.60
686	.4574000E+00	.4595144E+00	.2114429E-02	-.46
687	.2750000E+00	.2787767E+00	.1776657E-02	-.64
688	.3019000E+00	.3019870E+00	.8700895E-04	-.03
689	.3259000E+00	.3222164E+00	.3683609E-02	1.14
690	.3449000E+00	.3444152E+00	.4847916E-03	.14
691	.3667000E+00	.3687197E+00	.2019713E-02	-.55
692	.3915000E+00	.3950466E+00	.3546585E-02	.90
693	.4201000E+00	.4232863E+00	.3186301E-02	-.75
694	.4525000E+00	.4533348E+00	.8347952E-03	-.18
695	.4585000E+00	.4595532E+00	.6531631E-03	-.14
696	.2783000E+00	.2798726E+00	.1572584E-02	-.56
697	.3054000E+00	.3063722E+00	.9731671E-03	-.32
698	.3312000E+00	.3276425E+00	.3557518E-02	1.09
699	.3517000E+00	.3509841E+00	.7158951E-03	.20
700	.3749000E+00	.3765408E+00	.1640766E-02	-.44

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
701	.4014000E+00	.4042246E+00	-.2824634E-02	-.70
702	.4317000E+00	.4339204E+00	-.2220414E-02	-.51
703	.4330000E+00	.4400912E+00	-.2091165E-02	-.48
704	.4446000E+00	.4463372E+00	-.1737152E-02	-.39
705	.4517000E+00	.4526576E+00	-.9575713E-03	-.21
706	.2865000E+00	.2865570E+00	-.5702017E-04	-.02
707	.3150000E+00	.3152495E+00	-.2495077E-03	-.08
708	.3425000E+00	.3384017E+00	.4098262E-02	1.21
709	.3654000E+00	.3638533E+00	.1546722E-02	.43
710	.3914000E+00	.3917456E+00	-.3455780E-03	-.09
711	.4209000E+00	.4219767E+00	-.1076746E-02	-.26
712	.4274000E+00	.4282922E+00	-.8922168E-03	-.21
713	.4339000E+00	.4346950E+00	-.7950271E-03	-.18
714	.4405000E+00	.4411842E+00	-.6841798E-03	-.15
715	.2987000E+00	.2965608E+00	.2139163E-02	.72
716	.3299000E+00	.3275731E+00	.2326879E-02	.71
717	.3571000E+00	.3529557E+00	.4142922E-02	1.17
718	.3831000E+00	.3809880E+00	.2112007E-02	.55
719	.4118000E+00	.4117807E+00	.1932935E-04	.00
720	.4178000E+00	.4182600E+00	-.4599608E-03	-.11
721	.4240000E+00	.4248433E+00	-.8433048E-03	-.20
722	.4307000E+00	.4315295E+00	-.8294537E-03	-.19
723	.2515000E+00	.2537022E+00	-.2202164E-02	.87
724	.2724000E+00	.2708016E+00	.1598398E-02	.59
725	.2867000E+00	.2860350E+00	.6650385E-03	.23
726	.3021000E+00	.3032839E+00	-.1183925E-02	-.39
727	.3212000E+00	.3224809E+00	-.1280855E-02	-.40
728	.3417000E+00	.3434362E+00	-.1785215E-02	-.52
729	.3645000E+00	.3661728E+00	-.1672815E-02	-.46
730	.3915000E+00	.3904326E+00	.1067383E-02	.27
731	.3965000E+00	.3954651E+00	.1034934E-02	.26
732	.4015000E+00	.4005561E+00	.9439157E-03	.24
733	.4069000E+00	.4057050E+00	.1194968E-02	.29
734	.4125000E+00	.4109113E+00	.1588713E-02	.39
735	.4184000E+00	.4161742E+00	.2225752E-02	.53
736	.2592000E+00	.2584277E+00	-.1227743E-02	-.48
737	.2799000E+00	.2787684E+00	.1131621E-02	.41
738	.2977000E+00	.2964861E+00	.12133863E-02	.41
739	.3163000E+00	.3164204E+00	-.12037373E-03	-.04
740	.3372000E+00	.3385333E+00	-.1333290E-02	-.39
741	.3606000E+00	.3626810E+00	.2081027E-02	.57
742	.3880000E+00	.3887264E+00	-.7263865E-03	-.19
743	.3940000E+00	.3941524E+00	-.1524174E-03	-.04
744	.4002000E+00	.3996487E+00	.5513031E-03	.14
745	.4066000E+00	.4052144E+00	.1385607E-02	.34
746	.4131000E+00	.4108487E+00	.2251301E-02	.55
747	.2604000E+00	.2612426E+00	-.8425593E-03	-.32
748	.2838000E+00	.2828734E+00	.9265740E-03	.33
749	.3036000E+00	.3016311E+00	.1968882E-02	.65
750	.3233000E+00	.3227082E+00	.5918418E-03	.18

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
751	.3451000E+00	.3460732E+00	-.9732327E-03	-.28
752	.3704000E+00	.3715780E+00	-.1177956E-02	-.32
753	.3998000E+00	.3990794E+00	.7206111E-03	.18
754	.4062000E+00	.4048080E+00	.1391968E-02	.34
755	.2669000E+00	.2681539E+00	-.1253865E-02	-.47
756	.2922000E+00	.2919766E+00	.2233631E-03	.08
757	.3157000E+00	.3126172E+00	.3082757E-02	.99
758	.3369000E+00	.3358042E+00	.1095798E-02	.33
759	.3613000E+00	.3615049E+00	-.2049145E-03	-.06
760	.3897000E+00	.3895569E+00	.1430524E-03	.04
761	.3958000E+00	.3954354E+00	.3646446E-03	.09
762	.2765000E+00	.2798459E+00	-.3345907E-02	-.20
763	.3034000E+00	.3059885E+00	.2588496E-02	.85
764	.3299000E+00	.3288608E+00	.1039172E-02	.32
765	.3538000E+00	.3546272E+00	-.8271623E-03	-.23
766	.3595000E+00	.3601265E+00	.6265018E-03	-.17
767	.3647000E+00	.3657379E+00	-.1037867E-02	-.28
768	.3701000E+00	.3714597E+00	-.1359674E-02	-.37
769	.3757000E+00	.3772903E+00	.1590329E-02	.42
770	.3814000E+00	.3832283E+00	-.1828252E-02	-.48

NADC-77036-30

FRIDAY, JUL 2, 1976

MAXIMUM RESIDUAL (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
576	.5211000E+00	.5043416E+00	.1675836E-01	3.32

FRIDAY, JUL 2, 1976

STANDARD DEVIATION (TOTAL) = .2348197741E-02

STANDARD DEVIATION (WITHIN) = .2326239423E-02

TREATMENT NO.	STANDARD DEVIATION (WITHIN)
1	.2803346997E-02
2	.1812706065E-02

NADC-77036-30

FRIDAY, JUL 2, 1976

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TRANSGENERATED
DATA INPUT
CASE NUMBER    1           GROUP NUMBER   1
.1298922E-02-.6494611E-01-.5000000E+02-.5455456E+01 .1091091E+00 .4909465E-03 .3430000E+03
.3779645E+000. .2500000E+04 .3247306E-010. .0. .8575000E+06-.1889822E+02
.4123937E-010. .0. .4455303E+000. .-1715000E+050. .0.
0. .0. .3265000E+00
CASE NUMBER    2           GROUP NUMBER   1
.3535534E+00-.1767767E+02-.5000000E+02-.3535534E+02 .7071068E+00 .1336306E+000. .3430000E+03
.3779645E+000. .2500000E+04 .8838835E+030. .0. .8575000E+06-.1889822E+02
.2672612E+000. .0. .1212688E+030. .-1715000E+050. .0.
0. .0. .3436000E+00
CASE NUMBER    3           GROUP NUMBER   1
.1035926E+01-.5179630E+02-.5000000E+02-.5059174E+02 .1011835E+01 .3915432E+000. .3430000E+03
.3779645E+000. .2500000E+04 .2589815E+040. .0. .8575000E+06-.1889822E+02
.3824376E+000. .0. .3553226E+030. .-1715000E+050. .0.
0. .0. .3605000E+00
CASE NUMBER    4           GROUP NUMBER   1
.1837117E+01-.9185587E+02-.5000000E+02-.6123724E+02 .1224745E+01 .6843651E+000. .3430000E+03
.3779645E+000. .2500000E+04 .4592793E+040. .0. .8575000E+06-.1889822E+02
.4629100E+000. .0. .6301312E+030. .-1715000E+050. .0.
0. .0. .3802000E+00
CASE NUMBER    5           GROUP NUMBER   1
.2828427E+01-.1414214E+03-.5000000E+02-.7071068E+02 .1414214E+01 .1069045E+010. .3430000E+03
.3779645E+000. .2500000E+04 .7071068E+040. .0. .8575000E+06-.1889822E+02
.5345225E+000. .0. .9701505E+030. .-1715000E+050. .0.
0. .0. .4021000E+00
CASE NUMBER    6           GROUP NUMBER   1
.3952847E+01-.1976424E+03-.5000000E+02-.7905694E+02 .1581139E+01 .1494036E+010. .3430000E+03
.3779645E+000. .2500000E+04 .9882118E+040. .0. .8575000E+06-.1889822E+02
.5976143E+000. .0. .1355827E+040. .-1715000E+050. .0.
0. .0. .4315000E+00
CASE NUMBER    7           GROUP NUMBER   1
.5186152E+01-.2598076E+03-.5000000E+02-.8660254E+02 .1732051E+01 .1963961E+010. .3430000E+03
.3779645E+000. .2500000E+04 .1299038E+050. .0. .8575000E+06-.1889822E+02
.6546537E+000. .0. .1782280E+040. .-1715000E+050. .0.
0. .0. .4661000E+00
CASE NUMBER    8           GROUP NUMBER   1
.6547900E+01-.3273950E+03-.5000000E+02-.9354143E+02 .1870829E+01 .2474874E+010. .3430000E+03
.3779645E+000. .2500000E+04 .1636975E+050. .0. .8575000E+06-.1889822E+02
.7071068E+000. .0. .2245930E+040. .-1715000E+050. .0.
0. .0. .5010000E+00

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FRIDAY, JUL 2, 1976

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TRANSGENERATED
DATA INPUT
CASE NUMBER    9           GROUP NUMBER   1
.8000000E+01-.4000000E+03-.5000000E+02-.1000000E+03 .2000000E+01 .3023716E+010. .3430000E+03
.3779645E+000. .2500000E+04 .2000000E+050. .0. .8575000E+06-.1889822E+02
.7559289E+000. .0. .2744000E+040. .-1715000E+050. .0.
0. .0. .5415000E+00
CASE NUMBER    10          GROUP NUMBER   1
.8301867E+01-.4150934E+03-.5000000E+02-.1012423E+03 .2024846E+01 .3137811E+010. .3430000E+03
.3779645E+000. .2500000E+04 .2075467E+050. .0. .8575000E+06-.1889822E+02
.7653197E+000. .0. .2847540E+040. .-1715000E+050. .0.
0. .0. .5491000E+00
CASE NUMBER    11          GROUP NUMBER   1
.8607438E+01-.4303719E+03-.5000000E+02-.1024695E+03 .2049390E+01 .3253306E+010. .3430000E+03
.3779645E+000. .2500000E+04 .2151860E+050. .0. .8575000E+06-.1889822E+02
.77459567E+000. .0. .2952351E+040. .-1715000E+050. .0.
0. .0. .5504000E+00
CASE NUMBER    12          GROUP NUMBER   1
.8916670E+01-.4458335E+03-.5000000E+02-.1035822E+03 .2073644E+01 .3370184E+010. .3430000E+03
.3779645E+000. .2500000E+04 .2229167E+050. .0. .8575000E+06-.1889822E+02
.7837638E+000. .0. .3058418E+040. .-1715000E+050. .0.
0. .0. .5501000E+00
CASE NUMBER    13          GROUP NUMBER   1
.8229518E+01-.4614759E+03-.5000000E+02-.1048809E+03 .2097618E+01 .3488430E+010. .3430000E+03
.3779645E+000. .2500000E+04 .2307739E+050. .0. .8575000E+06-.1889822E+02
.7928250E+000. .0. .3165725E+040. .-1715000E+050. .0.
0. .0. .5536000E+00
CASE NUMBER    14          GROUP NUMBER   1
0. .0. .-5000000E+020. .0. .0. .0. .0. .7290000E+03
.3333333E+000. .2500000E+040. .0. .0. .1822500E+07-.1666667E+02
0. .0. .0. .0. .-3645000E+050. .0.
0. .0. .3298000E+00
CASE NUMBER    15          GROUP NUMBER   1
.3535534E+00-.1767767E+02-.5000000E+02-.3535534E+02 .7071068E+00 .1178511E+000. .7290000E+03
.3333333E+000. .2500000E+04 .8838835E+030. .0. .1822500E+07-.1666667E+02
.2357023E+000. .0. .2577404E+030. .-3645000E+050. .0.
0. .0. .3458000E+00
CASE NUMBER    16          GROUP NUMBER   1
.1000000E+01-.5000000E+02-.5000000E+02-.5000000E+02 .1000000E+01 .3333333E+000. .7290000E+03
.3333333E+000. .2500000E+04 .2500000E+040. .0. .1822500E+07-.1666667E+02
.3333333E+000. .0. .7290000E+030. .-3645000E+050. .0.
0. .0. .3704000E+00

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NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	17	GROUP NUMBER	1
.1837117E+01-.9185587E+02-.5000000E+02-.6123724E+02.1224745E+01.6123724E+000.	.7290000E+03		
.3333333E+000.	.2500000E+04 .4592793E+040.	0.	.1822500E+07-.1666667E+02
.4082483E+000.	0.	.1339259E+040.	-.3645000E+050.
0.	0.	.3989000E+000.	0.
CASE NUMBER	18	GROUP NUMBER	1
.2828427E+01-.1414214E+03-.5000000E+02-.7071068E+02.1414214E+01.9428090E+000.	.7290000E+03		
.3333333E+000.	.2500000E+04 .7071068E+040.	0.	.1822500E+07-.1666667E+02
.4714045E+000.	0.	.2061923E+040.	-.3645000E+050.
0.	0.	.4295000E+000.	0.
CASE NUMBER	19	GROUP NUMBER	1
.3952847E+01-.1976424E+03-.5000000E+02-.7905694E+02.1581139E+01.1317616E+010.	.7290000E+03		
.3333333E+000.	.2500000E+04 .9882118E+040.	0.	.1822500E+07-.1666667E+02
.5270463E+000.	0.	.2881626E+040.	-.3645000E+050.
0.	0.	.4608000E+000.	0.
CASE NUMBER	20	GROUP NUMBER	1
.5196152E+01-.2598076E+03-.5000000E+02-.8660254E+02.1732051E+01.1732051E+010.	.7290000E+03		
.3333333E+000.	.2500000E+04 .1299038E+050.	0.	.1822500E+07-.1666667E+02
.5773503E+000.	0.	.378795E+040.	-.3645000E+050.
0.	0.	.4952000E+000.	0.
CASE NUMBER	21	GROUP NUMBER	1
.6547906E+01-.3273950E+03-.5000000E+02-.8354143E+02.1870829E+01.2182633E+010.	.7290000E+03		
.3333333E+000.	.2500000E+04 .1636975E+050.	0.	.1822500E+07-.1666667E+02
.6236096E+000.	0.	.4773419E+040.	-.3645000E+050.
0.	0.	.5440000E+000.	0.
CASE NUMBER	22	GROUP NUMBER	1
.6830520E+01-.3415260E+03-.5000000E+02-.9486833E+02.1897367E+01.2276840E+010.	.7290000E+03		
.3333333E+000.	.2500000E+04 .1707630E+050.	0.	.1822500E+07-.1666667E+02
.6324555E+000.	0.	.4579449E+040.	-.3645000E+050.
0.	0.	.5491000E+000.	0.
CASE NUMBER	23	GROUP NUMBER	1
.7117092E+01-.3558546E+03-.5000000E+02-.9617692E+02.1923538E+01.2372364E+010.	.7290000E+03		
.3333333E+000.	.2500000E+04 .1779273E+050.	0.	.1822500E+07-.1666667E+02
.64117795E+000.	0.	.5188360E+040.	-.3645000E+050.
0.	0.	.5499000E+000.	0.
CASE NUMBER	24	GROUP NUMBER	1
.7407554E+01-.3703782E+03-.5000000E+02-.9746794E+02.1949359E+01.2469188E+010.	.7290000E+03		
.3333333E+000.	.2500000E+04 .1851191E+050.	0.	.1822500E+07-.1666667E+02
.6497863E+000.	0.	.5400114E+040.	-.3645000E+050.
0.	0.	.5499000E+000.	0.

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	25	GROUP NUMBER	1
.7701883E+01-.3850941E+03-.5000000E+02-.9874209E+02.1974842E+01.2567294E+010.	.7290000E+03		
.3333333E+000.	.2500000E+04 .1925471E+050.	0.	.1822500E+07-.1666667E+02
.6582808E+000.	0.	.5614673E+040.	-.3645000E+050.
0.	0.	.5549000E+000.	0.
CASE NUMBER	26	GROUP NUMBER	1
.0.	-.5000000E+020.	0.	0.
.3162278E+000.	.2500000E+040.	0.	.1000000E+04
0.	0.	0.	.2500000E+07-.1581139E+02
0.	0.	.3320000E+000.	0.
CASE NUMBER	27	GROUP NUMBER	1
.2923368E+000-.1461685E+02-.5000000E+02-.3318419E+02.5636838E+000.9244505E-010.	.1000000E+04		
.3162278E+000.	.2500000E+04 .7308423E+010.	0.	.2500000E+07-.1581139E+02
.2098752E+000.	0.	.2923369E+030.	-.5000000E+050.
0.	0.	.3515000E+000.	0.
CASE NUMBER	28	GROUP NUMBER	1
.1000000E+01-.5000000E+02-.5000000E+02-.1000000E+02.1000000E+01.3162278E+000.	.1000000E+04		
.3162278E+000.	.2500000E+04 .2500000E+040.	0.	.2500000E+07-.1581139E+02
.3162278E+000.	0.	.1000000E+040.	-.5000000E+050.
0.	0.	.3814000E+000.	0.
CASE NUMBER	29	GROUP NUMBER	1
.1837117E+01-.9185587E+02-.5000000E+02-.6123724E+02.1224745E+01.5809475E+000.	.1000000E+04		
.3162278E+000.	.2500000E+04 .4592793E+040.	0.	.2500000E+07-.1581139E+02
.3872983E+000.	0.	.1837117E+040.	-.5000000E+050.
0.	0.	.4114000E+000.	0.
CASE NUMBER	30	GROUP NUMBER	1
.2828427E+01-.1414214E+03-.5000000E+02-.7071068E+02.1414214E+01.8944272E+000.	.1000000E+04		
.3162278E+000.	.2500000E+04 .7071068E+040.	0.	.2500000E+07-.1581139E+02
.4472136E+000.	0.	.2828427E+040.	-.5000000E+050.
0.	0.	.4406000E+000.	0.
CASE NUMBER	31	GROUP NUMBER	1
.3938738E+01-.1969369E+03-.5000000E+02-.7896277E+02.1579255E+01.1245538E+010.	.1000000E+04		
.3162278E+000.	.2500000E+04 .9846845E+040.	0.	.2500000E+07-.1581139E+02
.4994044E+000.	0.	.3938738E+040.	-.5000000E+050.
0.	0.	.4730000E+000.	0.
CASE NUMBER	32	GROUP NUMBER	1
.5196152E+01-.2598076E+03-.5000000E+02-.8660254E+02.1732051E+01.1643168E+010.	.1000000E+04		
.3162278E+000.	.2500000E+04 .1299038E+050.	0.	.2500000E+07-.1581139E+02
.5477226E+000.	0.	.5196152E+040.	-.5000000E+050.
0.	0.	.5128000E+000.	0.

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT

CASE NUMBER	33	GROUP NUMBER	1
.6547900E+01	.3273950E+03	.5000000E+02	.9354143E+02 .1870829E+01 .2070628E+010 .1000000E+04
.3162278E+000	.	.2500000E+04	.1636975E+050 0 .2500000E+07-.1581139E+02
.5916080E+000	0.	0.	.6547900E+040 -.5000000E+050 0.
0.	0.	0.	.5499000E+00
CASE NUMBER	34	GROUP NUMBER	1
.6830520E+01	.3415260E+03	.5000000E+02	.9486833E+02 .1897367E+01 .2160000E+010 .1000000E+04
.3162278E+000	.	.2500000E+04	.1707630E+050 0 .2500000E+07-.1581139E+02
.6082763E+000	0.	0.	.6830520E+040 -.5000000E+050 0.
0.	0.	0.	.5510000E+00
CASE NUMBER	35	GROUP NUMBER	1
.7117092E+01	.3558546E+03	.5000000E+02	.9617692E+02 .1923538E+01 .2250622E+010 .1000000E+04
.3162278E+000	.	.2500000E+04	.1779273E+050 0 .2500000E+07-.1581139E+02
.6082763E+000	0.	0.	.7117092E+040 -.5000000E+050 0.
0.	0.	0.	.5561000E+00
CASE NUMBER	36	GROUP NUMBER	1
0.	0.	.5000000E+020.	0. 0. .1728000E+04
.2886751E+000	.	.2500000E+040.	0. 0. .4320000E+07-.1443376E+02
0.	0.	0.	0. -.8640000E+050. 0.
0.	0.	0.	.3453000E+00
CASE NUMBER	37	GROUP NUMBER	1
.3535534E+000	.17677767E+02	.5000000E+02	.3535534E+02 .7071068E+00 .1020621E+000 .1728000E+04
.2886751E+000	.	.2500000E+04	.8838835E+030 0 .4320000E+07-.1443376E+02
.2041241E+000	0.	0.	.6109403E+030 -.8640000E+050. 0.
0.	0.	0.	.3728000E+00
CASE NUMBER	38	GROUP NUMBER	1
.1000000E+01	.5000000E+02	.5000000E+02	.1000000E+01 .2886751E+000 .1728000E+04
.2886751E+000	.	.2500000E+04	.2500000E+040. 0. .4320000E+07-.1443376E+02
.2886751E+000	0.	0.	.1728000E+040 -.8640000E+050. 0.
0.	0.	0.	.4011000E+00
CASE NUMBER	39	GROUP NUMBER	1
.1837117E+01	.9185587E+02	.5000000E+02	.6123724E+02 .1224745E+01 .5303301E+000 .1728000E+04
.2886751E+000	.	.2500000E+04	.4592793E+040 0 .4320000E+07-.1443376E+02
.3535534E+000	0.	0.	.3174539E+040 -.8640000E+050. 0.
0.	0.	0.	.4282000E+00
CASE NUMBER	40	GROUP NUMBER	1
.2828427E+01	.1414214E+03	.5000000E+02	.7071068E+02 .1414214E+01 .8164966E+000 .1728000E+04
.2886751E+000	.	.2500000E+04	.7071068E+040 0 .4320000E+07-.1443376E+02
.4082483E+000	0.	0.	.4887522E+040 -.8640000E+050. 0.
0.	0.	0.	.4568000E+00

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT

CASE NUMBER	41	GROUP NUMBER	1
.3952847E+01	.1976424E+03	.5000000E+02	.7905694E+02 .1581139E+01 .1141085E+010 .1728000E+04
.2886751E+000	.	.2500000E+04	.9882118E+040 0 .4320000E+07-.1443376E+02
.4564355E+000	0.	0.	.6830520E+040 -.8640000E+050. 0.
0.	0.	0.	.4941000E+00
CASE NUMBER	42	GROUP NUMBER	1
.5196152E+01	.2598076E+03	.5000000E+02	.8660254E+02 .1732051E+01 .1500000E+010 .1728000E+04
.2886751E+000	.	.2500000E+04	.1299038E+050 0 .4320000E+07-.1443376E+02
.5000000E+000	0.	0.	.8978951E+040 -.8640000E+050. 0.
0.	0.	0.	.5441000E+00
CASE NUMBER	43	GROUP NUMBER	1
.5458113E+01	.2729057E+03	.5000000E+02	.8803408E+02 .1760682E+01 .1575622E+010 .1728000E+04
.2886751E+000	.	.2500000E+04	.1364528E+050 0 .4320000E+07-.1443376E+02
.5082650E+000	0.	0.	.9431620E+040 -.8640000E+050. 0.
0.	0.	0.	.5490000E+00
CASE NUMBER	44	GROUP NUMBER	1
.5724334E+01	.2852167E+03	.5000000E+02	.8944272E+02 .1788854E+01 .1652473E+010 .1728000E+04
.2886751E+000	.	.2500000E+04	.1431084E+050 0 .4320000E+07-.1443376E+02
.5163978E+000	0.	0.	.9891649E+040 -.8640000E+050. 0.
0.	0.	0.	.5503000E+00
CASE NUMBER	45	GROUP NUMBER	1
0.	0.	.5000000E+020.	0. 0. .3048625E+04
.2626129E+000	.	.2500000E+040.	0. 0. .7621562E+07-.1313064E+02
0.	0.	0.	0. -.1524313E+060. 0.
0.	0.	0.	.3618000E+00
CASE NUMBER	46	GROUP NUMBER	1
.3598856E+000	.1799428E+02	.5000000E+02	.3556517E+02 .7113033E+00 .9451059E-010 .3048625E+04
.2626129E+000	.	.2500000E+04	.8997140E+030 0 .7621562E+07-.1313064E+02
.1867974E+000	0.	0.	.10971156E+040 -.1524313E+060. 0.
0.	0.	0.	.3895000E+00
CASE NUMBER	47	GROUP NUMBER	1
.1063147E+01	.5315733E+02	.5000000E+02	.5103104E+02 .1020621E+01 .2791960E+000 .3048625E+04
.2626129E+000	.	.2500000E+04	.2657867E+040 0 .7621562E+07-.1313064E+02
.2660281E+000	0.	0.	.3241135E+040 -.1524313E+060. 0.
0.	0.	0.	.4200000E+00
CASE NUMBER	48	GROUP NUMBER	1
.1696809E+01	.8484044E+02	.5000000E+02	.5963680E+02 .1192736E+01 .4456038E+000 .3048625E+04
.2626129E+000	.	.2500000E+04	.4242022E+040 0 .7621562E+07-.1313064E+02
.3132278E+000	0.	0.	.5172934E+040 -.1524313E+060. 0.
0.	0.	0.	.4440000E+00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	49	GROUP NUMBER	1			
.2828427E+01.	.1414214E+03.	.5000000E+02.	.7071058E+02.	.1414214E+01.	.7427814E+000.	.3048625E+04
.2626129E+000.	.2500000E+04	.7071068E+040.	0.	0.	.7621562E+07.	.1313064E+02
.3713907E+000.	0.	.8622814E+040.	0.	-.1524313E+060.	0.	
0.	0.	.4850000E+00				
CASE NUMBER	50	GROUP NUMBER	1			
.3952847E+01.	.1976424E+03.	.5000000E+02.	.7905694E+02.	.1581139E+01.	.1038068E+010.	.3048625E+04
.2626129E+000.	.2500000E+04	.9882118E+040.	0.	0.	.7621562E+07.	.1313064E+02
.4152274E+000.	0.	.1205075E+050.	0.	-.1524313E+060.	0.	
0.	0.	.5252000E+00				
CASE NUMBER	51	GROUP NUMBER	1			
.4192374E+01.	.2096187E+03.	.5000000E+02.	.8062258E+02.	.1612452E+01.	.1100971E+010.	.3048625E+04
.2626129E+000.	.2500000E+04	.1048094E+050.	0.	0.	.7621562E+07.	.1313064E+02
.4234505E+000.	0.	.1278098E+050.	0.	-.1524313E+060.	0.	
0.	0.	.5353000E+00				
CASE NUMBER	52	GROUP NUMBER	1			
0.	0.	0.	0.	0.	0.	.3430000E+03
.3779645E+000.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	.2986000E+00				
CASE NUMBER	53	GROUP NUMBER	1			
.3535534E+000.	0.	0.	.7071068E+00.	.1336306E+000.	0.	.3430000E+03
.3779645E+000.	0.	0.	0.	0.	0.	0.
.2672612E+000.	0.	.1212688E+030.	0.	0.	0.	0.
0.	0.	.3170000E+00				
CASE NUMBER	54	GROUP NUMBER	1			
.1000000E+010.	0.	0.	.1000000E+01.	.3779645E+000.	0.	.3430000E+03
.3779645E+000.	0.	0.	0.	0.	0.	0.
.3779645E+000.	0.	.3430000E+030.	0.	0.	0.	0.
0.	0.	.3345000E+00				
CASE NUMBER	55	GROUP NUMBER	1			
.1761105E+010.	0.	0.	.1207615E+01.	.6656350E+000.	0.	.3430000E+03
.3779645E+000.	0.	0.	0.	0.	0.	0.
.4564355E+000.	0.	.6040589E+030.	0.	0.	0.	0.
0.	0.	.3545000E+00				
CASE NUMBER	56	GROUP NUMBER	1			
.2828427E+010.	0.	0.	.1414214E+01.	.1069045E+010.	0.	.3430000E+03
.3779645E+000.	0.	0.	0.	0.	0.	0.
.5345225E+000.	0.	.8701505E+030.	0.	0.	0.	0.
0.	0.	.3818000E+00				

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	57	GROUP NUMBER	1			
.3952847E+010.	0.	0.	.1581139E+01.	.1494036E+010.	0.	.3430000E+03
.3779645E+000.	0.	0.	0.	0.	0.	0.
.5976143E+000.	0.	.1355827E+040.	0.	0.	0.	0.
0.	0.	.4091000E+00				
CASE NUMBER	58	GROUP NUMBER	1			
.5242615E+010.	0.	0.	.1737198E+01.	.1981522E+010.	0.	.3430000E+03
.3779645E+000.	0.	0.	0.	0.	0.	0.
.6565991E+000.	0.	.1798217E+040.	0.	0.	0.	0.
0.	0.	.4375000E+00				
CASE NUMBER	59	GROUP NUMBER	1			
.6547900E+010.	0.	0.	.1870829E+01.	.2474874E+010.	0.	.3430000E+03
.3779645E+000.	0.	0.	0.	0.	0.	0.
.7071058E+000.	0.	.2245930E+040.	0.	0.	0.	0.
0.	0.	.4667000E+00				
CASE NUMBER	60	GROUP NUMBER	1			
.8000000E+010.	0.	0.	.2000000E+01.	.3023716E+010.	0.	.3430000E+03
.3779645E+000.	0.	0.	0.	0.	0.	0.
.7559289E+000.	0.	.2744000E+040.	0.	0.	0.	0.
0.	0.	.4960000E+00				
CASE NUMBER	61	GROUP NUMBER	1			
.8301867E+010.	0.	0.	.2024845E+01.	.3137811E+010.	0.	.3430000E+03
.3779645E+000.	0.	0.	0.	0.	0.	0.
.7653197E+000.	0.	.2847540E+040.	0.	0.	0.	0.
0.	0.	.5029000E+00				
CASE NUMBER	62	GROUP NUMBER	1			
.8607439E+010.	0.	0.	.2049390E+01.	.3253306E+010.	0.	.3430000E+03
.3779645E+000.	0.	0.	0.	0.	0.	0.
.77455967E+000.	0.	.2952351E+040.	0.	0.	0.	0.
0.	0.	.5100000E+00				
CASE NUMBER	63	GROUP NUMBER	1			
.8916670E+010.	0.	0.	.2073644E+01.	.3370184E+010.	0.	.3430000E+03
.3779645E+000.	0.	0.	0.	0.	0.	0.
.7837638E+000.	0.	.3058418E+040.	0.	0.	0.	0.
0.	0.	.5183000E+00				
CASE NUMBER	64	GROUP NUMBER	1			
0.	0.	0.	0.	0.	0.	0.
.3333333E+000.	0.	0.	0.	0.	0.	0.
0.	0.	.3036000E+00				

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT
 CASE NUMBER 65 GROUP NUMBER 1
 .3535534E+000. 0. .7071068E+00 .1178511E+000. .7290000E+03
 .3333333E+000. 0. 0. 0. 0.
 .2357023E+000. 0. .2577404E+030. 0. 0.
 0. 0. .3272000E+00 0.
 CASE NUMBER 66 GROUP NUMBER 1
 .1000000E+010. 0. .1000000E+01 .3333333E+000. .7290000E+03
 .3333333E+000. 0. 0. 0. 0.
 .3333333E+000. 0. .7290000E+030. 0. 0.
 0. 0. .3527000E+00 0.
 CASE NUMBER 67 GROUP NUMBER 1
 .1837117E+010. 0. .1224745E+01 .6123724E+000. .7290000E+03
 .3333333E+000. 0. 0. 0. 0.
 .4082483E+000. 0. .1339259E+040. 0. 0.
 0. 0. .3777800E+00 0.
 CASE NUMBER 68 GROUP NUMBER 1
 .2828427E+010. 0. .1414214E+01 .9428090E+000. .7290000E+03
 .3333333E+000. 0. 0. 0. 0.
 .4714045E+000. 0. .2061923E+040. 0. 0.
 0. 0. .4018000E+00 0.
 CASE NUMBER 69 GROUP NUMBER 1
 .3952847E+010. 0. .1581139E+01 .1317516E+010. .7290000E+03
 .3333333E+000. 0. 0. 0. 0.
 .5270463E+000. 0. .2881626E+040. 0. 0.
 0. 0. .4279000E+00 0.
 CASE NUMBER 70 GROUP NUMBER 1
 .5196152E+010. 0. .1732051E+01 .1732051E+010. .7290000E+03
 .3333333E+000. 0. 0. 0. 0.
 .5773503E+000. 0. .3787995E+040. 0. 0.
 0. 0. .4579000E+00 0.
 CASE NUMBER 71 GROUP NUMBER 1
 .6547900E+010. 0. .1870829E+01 .2182633E+010. .7290000E+03
 .3333333E+000. 0. 0. 0. 0.
 .6236096E+000. 0. .4773419E+040. 0. 0.
 0. 0. .4978000E+00 0.
 CASE NUMBER 72 GROUP NUMBER 1
 .6830520E+010. 0. .1897367E+01 .2276840E+010. .7290000E+03
 .3333333E+000. 0. 0. 0. 0.
 .6324555E+000. 0. .4979449E+040. 0. 0.
 0. 0. .5644000E+00 0.

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT
 CASE NUMBER 73 GROUP NUMBER 1
 .7117092E+010. 0. .1923538E+01 .2372364E+010. .7290000E+03
 .3333333E+000. 0. 0. 0. 0.
 .6411795E+000. 0. .5188360E+040. 0. 0.
 0. 0. .5117000E+00 0.
 CASE NUMBER 74 GROUP NUMBER 1
 0. 0. 0. 0. .1000000E+04
 .3162278E+000. 0. 0. 0. 0.
 0. 0. 0. 0. 0.
 0. 0. .3128000E+00 0.
 CASE NUMBER 75 GROUP NUMBER 1
 .3535534E+000. 0. .7071068E+00 .1118034E+000. .1000000E+04
 .3162278E+000. 0. 0. 0. 0.
 .2236068E+000. 0. .3535534E+030. 0. 0.
 0. 0. .3360000E+00 0.
 CASE NUMBER 76 GROUP NUMBER 1
 .1000000E+010. 0. .1000000E+01 .3162278E+000. .1000000E+04
 .3162278E+000. 0. 0. 0. 0.
 .3162278E+000. 0. .1000000E+040. 0. 0.
 0. 0. .3615000E+00 0.
 CASE NUMBER 77 GROUP NUMBER 1
 .1837117E+010. 0. .1224745E+01 .5809475E+000. .1000000E+04
 .3162278E+000. 0. 0. 0. 0.
 .3872983E+000. 0. .1837117E+040. 0. 0.
 0. 0. .3844000E+00 0.
 CASE NUMBER 78 GROUP NUMBER 1
 .2828427E+010. 0. .1414214E+01 .8944272E+000. .1000000E+04
 .3162278E+000. 0. 0. 0. 0.
 .4472135E+000. 0. .2828427E+040. 0. 0.
 0. 0. .4101000E+00 0.
 CASE NUMBER 79 GROUP NUMBER 1
 .3952847E+010. 0. .1581139E+01 .1250000E+010. .1000000E+04
 .3162278E+000. 0. 0. 0. 0.
 .5000000E+000. 0. .3952847E+040. 0. 0.
 0. 0. .4384000E+00 0.
 CASE NUMBER 80 GROUP NUMBER 1
 .5196152E+010. 0. .1732051E+01 .1643168E+010. .1000000E+04
 .3162278E+000. 0. 0. 0. 0.
 .5477226E+000. 0. .5196152E+040. 0. 0.
 0. 0. .4719000E+00 0.

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	81	GROUP NUMBER	1	
.5458113E+010.	0.	0.	.1760682E+01 .1726007E+010.	.1000000E+04
.3162278E+000.	0.	0.	0.	0.
.5567764E+000.	0.	.5458113E+040.	0.	0.
0.	0.	.4802000E+00		
CASE NUMBER	82	GROUP NUMBER	1	
.5724334E+010.	0.	0.	.1788854E+01 .1810193E+010.	.1000000E+04
.3162278E+000.	0.	0.	0.	0.
.5656854E+000.	0.	.5724334E+040.	0.	0.
0.	0.	.4891000E+00		
CASE NUMBER	83	GROUP NUMBER	1	
.5994748E+010.	0.	0.	.1816590E+01 .1895706E+010.	.1000000E+04
.3162278E+000.	0.	0.	0.	0.
.5744563E+000.	0.	.5994748E+040.	0.	0.
0.	0.	.4979000E+00		
CASE NUMBER	84	GROUP NUMBER	1	
.6269290E+010.	0.	0.	.1843909E+01 .1982524E+010.	.1000000E+04
.3162278E+000.	0.	0.	0.	0.
.5830952E+000.	0.	.6269290E+040.	0.	0.
0.	0.	.5061000E+00		
CASE NUMBER	85	GROUP NUMBER	1	
.6547900E+010.	0.	0.	.1870829E+01 .2070628E+010.	.1000000E+04
.3162278E+000.	0.	0.	0.	0.
.5916080E+000.	0.	.6547900E+040.	0.	0.
0.	0.	.5132000E+00		
CASE NUMBER	86	GROUP NUMBER	1	
.1298922E+020.	0.	0.	.1091091E+00 .3749666E-030.	.1728000E+04
.2886751E+000.	0.	0.	0.	0.
.3149709E+010.	0.	.2244538E+010.	0.	0.
0.	0.	.3260000E+00		
CASE NUMBER	87	GROUP NUMBER	1	
.3535534E+000.	0.	0.	.7071068E+00 .1020621E+000.	.1728000E+04
.2886751E+000.	0.	0.	0.	0.
.2041241E+000.	0.	.6109403E+030.	0.	0.
0.	0.	.3472000E+00		
CASE NUMBER	88	GROUP NUMBER	1	
.1000000E+010.	0.	0.	.1000000E+01 .2886751E+000.	.1728000E+04
.2886751E+000.	0.	0.	0.	0.
.2886751E+000.	0.	.1728000E+040.	0.	0.
0.	0.	.3727000E+00		

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	89	GROUP NUMBER	1	
.1837117E+010.	0.	0.	.1224745E+01 .5303301E+000.	.1728000E+04
.2886751E+000.	0.	0.	0.	0.
.3535534E+000.	0.	.3174539E+040.	0.	0.
0.	0.	.3997000E+00		
CASE NUMBER	90	GROUP NUMBER	1	
.2828427E+010.	0.	0.	.1414214E+01 .8164956E+000.	.1728000E+04
.2886751E+000.	0.	0.	0.	0.
.4082483E+000.	0.	.4887522E+040.	0.	0.
0.	0.	.4267000E+00		
CASE NUMBER	91	GROUP NUMBER	1	
.3952847E+010.	0.	0.	.1581139E+01 .1141089E+010.	.1728000E+04
.2886751E+000.	0.	0.	0.	0.
.4564355E+000.	0.	.6830520E+040.	0.	0.
0.	0.	.4596000E+00		
CASE NUMBER	92	GROUP NUMBER	1	
.4192374E+010.	0.	0.	.1612452E+01 .1210234E+010.	.1728000E+04
.2886751E+000.	0.	0.	0.	0.
.4654747E+000.	0.	.7244422E+040.	0.	0.
0.	0.	.4670000E+00		
CASE NUMBER	93	GROUP NUMBER	1	
.4436553E+010.	0.	0.	.1643168E+01 .1280722E+010.	.1728000E+04
.2886751E+000.	0.	0.	0.	0.
.4743416E+000.	0.	.7666363E+040.	0.	0.
0.	0.	.4741000E+00		
CASE NUMBER	94	GROUP NUMBER	1	
.4685296E+010.	0.	0.	.1673320E+01 .1352528E+010.	.1728000E+04
.2886751E+000.	0.	0.	0.	0.
.4830459E+000.	0.	.8096192E+040.	0.	0.
0.	0.	.4822000E+00		
CASE NUMBER	95	GROUP NUMBER	1	
.4938522E+010.	0.	0.	.1702939E+01 .1425629E+010.	.1728000E+04
.2886751E+000.	0.	0.	0.	0.
.4915980E+000.	0.	.8533766E+040.	0.	0.
0.	0.	.4912000E+00		
CASE NUMBER	96	GROUP NUMBER	1	
.5196152E+010.	0.	0.	.1732051E+01 .1500000E+010.	.1728000E+04
.2886751E+000.	0.	0.	0.	0.
.5000000E+000.	0.	.8978951E+040.	0.	0.
0.	0.	.5012000E+00		

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	97		GROUP NUMBER	1	
0.	0.	0.	0.	0.	.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.
0.	0.	.3384000E+00			
CASE NUMBER	98		GROUP NUMBER	1	
.3535534E+000.	0.	0.	.7071068E+00	.9284757E-010.	.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
.1856953E+000.	0.	.1077852E-040.	0.	0.	0.
0.	0.	.3623000E+00			
CASE NUMBER	99		GROUP NUMBER	1	
.1000000E+010.	0.	0.	.1000000E+01	.2626129E+000.	.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
.2626129E+000.	0.	.3048625E+040.	0.	0.	0.
0.	0.	.3900000E+00			
CASE NUMBER	100		GROUP NUMBER	1	
.1837117E+010.	0.	0.	.1224745E+01	.4824506E+000.	.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
.3216333E+000.	0.	.5600682E+040.	0.	0.	0.
0.	0.	.4171000E+00			
CASE NUMBER	101		GROUP NUMBER	1	
.2828427E+010.	0.	0.	.1414214E+01	.7427814E+000.	.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
.3713907E+000.	0.	.8622814E+040.	0.	0.	0.
0.	0.	.4491000E+00			
CASE NUMBER	102		GROUP NUMBER	1	
.3043185E+010.	0.	0.	.1449138E+01	.7991806E+000.	.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
.3805622E+000.	0.	.9277542E+040.	0.	0.	0.
0.	0.	.4558000E+00			
CASE NUMBER	103		GROUP NUMBER	1	
.3263127E+010.	0.	0.	.1483240E+01	.8569392E+000.	.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
.3895178E+000.	0.	.9948052E+040.	0.	0.	0.
0.	0.	.4634000E+00			
CASE NUMBER	104		GROUP NUMBER	1	
.3488123E+010.	0.	0.	.1516575E+01	.9160259E+000.	.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
.3982721E+000.	0.	.1063398E+050.	0.	0.	0.
0.	0.	.4712000E+00			

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	105		GROUP NUMBER	1	
.3718064E+010.	0.	0.	.1549193E+01	.9764114E+000.	.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
.4068381E+000.	0.	.1133498E+050.	0.	0.	0.
0.	0.	.4791000E+00			
CASE NUMBER	106		GROUP NUMBER	1	
0.	0.	.1000000E+030.	0.	0.	.3430000E+03
.3779645E+000.	0.	.1000000E+050.	0.	.3430000E+07	.3779645E+02
0.	0.	0.	.3430000E+050.	0.	
0.	0.	.2671000E+00			
CASE NUMBER	107		GROUP NUMBER	1	
.2535534E+000	.3535534E+002	.1000000E+03	.2071068E+02	.7071068E+00	.1336306E+000
.3779645E+000.	0.	.1000000E+05	.3535534E+040.	0.	.3430000E+07
.2672612E+000.	0.	.1212688E+030.	0.	.3430000E+050.	0.
0.	0.	.2861000E+00			
CASE NUMBER	108		GROUP NUMBER	1	
.1000000E+01	.1000000E+03	.1000000E+03	.1000000E+03	.1000000E+01	.3430000E+03
.3779645E+000.	0.	.1000000E+05	.1000000E+050.	0.	.3430000E+07
.3779645E+000.	0.	.3430000E+030.	0.	.3430000E+050.	0.
0.	0.	.3049000E+00			
CASE NUMBER	109		GROUP NUMBER	1	
.1837117E+01	.1837117E+03	.1000000E+03	.1224745E+03	.1224745E+01	.6943651E+000
.3779645E+000.	0.	.1000000E+05	.1837117E+050.	0.	.3430000E+07
.4629100E+000.	0.	.6301312E+030.	0.	.3430000E+050.	0.
0.	0.	.3231000E+00			
CASE NUMBER	110		GROUP NUMBER	1	
.2828427E+01	.2828427E+03	.1000000E+03	.1414214E+03	.1414214E+01	.1069045E+010.
.3779645E+000.	0.	.1000000E+05	.2828427E+050.	0.	.3430000E+07
.5345225E+000.	0.	.9701505E+030.	0.	.3430000E+050.	0.
0.	0.	.3416000E+00			
CASE NUMBER	111		GROUP NUMBER	1	
.3952847E+01	.3952847E+03	.1000000E+03	.1581138E+03	.1581138E+01	.1494036E+010.
.3779645E+000.	0.	.1000000E+05	.3952847E+050.	0.	.3430000E+07
.5976143E+000.	0.	.1355827E+040.	0.	.3430000E+050.	0.
0.	0.	.3635000E+00			
CASE NUMBER	112		GROUP NUMBER	1	
.5196152E+01	.5196152E+03	.1000000E+03	.1732051E+03	.1732051E+01	.1963961E+010.
.3779645E+000.	0.	.1000000E+05	.5196152E+050.	0.	.3430000E+07
.6546537E+000.	0.	.1782280E+040.	0.	.3430000E+050.	0.
0.	0.	.3889000E+00			

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGERATED
DATA INPUT

CASE NUMBER	113	GROUP NUMBER	1		
.6547900E+01	.6547900E+03	.1000000E+03	.1870829E+03 .1870829E+01 .2474874E+010.	.3430000E+03	
.3779645E+000.	.1000000E+05	.6547900E+050.	0.	.3430000E+07 .3779645E+02	
.7071068E+000.	0.	.2245930E+040.	.3430000E+050.	0.	
0.	0.	.4186000E+00			
CASE NUMBER	114	GROUP NUMBER	1		
.6830520E+01	.6830520E+03	.1000000E+03	.1897367E+03 .1897367E+01 .2581694E+010.	.3430000E+03	
.3779645E+000.	.1000000E+05	.6830520E+050.	0.	.3430000E+07 .3779645E+02	
.7171372E+000.	0.	.2342868E+040.	.3430000E+050.	0.	
0.	0.	.4238000E+00			
CASE NUMBER	115	GROUP NUMBER	1		
.7117092E+01	.7117092E+03	.1000000E+03	.1923538E+03 .1923538E+01 .2490008E+010.	.3430000E+03	
.3779645E+000.	.1000000E+05	.7117092E+050.	0.	.3430000E+07 .3779645E+02	
.7270292E+000.	0.	.2441163E+040.	.3430000E+050.	0.	
0.	0.	.4294000E+00			
CASE NUMBER	116	GROUP NUMBER	1		
.7407564E+01	.7407564E+03	.1000000E+03	.1949359E+03 .1949359E+01 .2799796E+010.	.3430000E+03	
.3779645E+000.	.1000000E+05	.7407564E+050.	0.	.3430000E+07 .3779645E+02	
.7367848E+000.	0.	.2540794E+040.	.3430000E+050.	0.	
0.	0.	.4352000E+00			
CASE NUMBER	117	GROUP NUMBER	1		
.7701883E+01	.7701883E+03	.1000000E+03	.1974842E+03 .1974842E+01 .2911038E+010.	.3430000E+03	
.3779645E+000.	.1000000E+05	.7701883E+050.	0.	.3430000E+07 .3779645E+02	
.7464200E+000.	0.	.2617486E+040.	.3430000E+050.	0.	
0.	0.	.4411000E+00			
CASE NUMBER	118	GROUP NUMBER	1		
.8000000E+01	.8000000E+03	.1000000E+03	.2000000E+03 .2000000E+01 .3023716E+010.	.3430000E+03	
.3779645E+000.	.1000000E+05	.8000000E+050.	0.	.3430000E+07 .3779645E+02	
.7559289E+000.	0.	.2744000E+040.	.3430000E+050.	0.	
0.	0.	.4473000E+00			
CASE NUMBER	119	GROUP NUMBER	1		
0.	0.	.1000000E+030.	0.	0. .7290000E+03	
.3333333E+000.	.1000000E+050.	0.	0.	.7290000E+07 .3333333E+02	
0.	0.	0.	0.	.7290000E+050.	0.
CASE NUMBER	120	GROUP NUMBER	1		
.3535534E+00	.3535534E+02	.1000000E+03	.7071068E+02 .7071068E+00 .1178511E+000.	.7290000E+03	
.3333333E+000.	.1000000E+05	.3535534E+040.	0.	.7290000E+07 .3333333E+02	
.2357023E+000.	0.	.2577404E+030.	.7290000E+050.	0.	
0.	0.	.3000000E+00			

FRIDAY, JUL 2, 1976

TRANSGERATED
DATA INPUT

CASE NUMBER	121	GROUP NUMBER	1	
.1000000E+01	.1000000E+03	.1000000E+03	.1000000E+01 .3333333E+000.	.7290000E+03
.3333333E+000.	.1000000E+05	.1000000E+050.	0.	.7290000E+07 .3333333E+02
.3333333E+000.	0.	.7290000E+030.	.7290000E+050.	0.
0.	0.	.3168000E+00		
CASE NUMBER	122	GROUP NUMBER	1	
.1837117E+01	.1837117E+03	.1000000E+03	.1224745E+03 .1224745E+01 .6123724E+000.	.7290000E+03
.3333333E+000.	.1000000E+05	.1837117E+050.	0.	.7290000E+07 .3333333E+02
.4082483E+000.	0.	.1339259E+040.	.7290000E+050.	0.
0.	0.	.3363000E+00		
CASE NUMBER	123	GROUP NUMBER	1	
.2828427E+01	.2828427E+03	.1000000E+03	.1414214E+03 .1414214E+01 .9428090E+000.	.7290000E+03
.3333333E+000.	.1000000E+05	.2828427E+050.	0.	.7290000E+07 .3333333E+02
.4714045E+000.	0.	.2061923E+040.	.7290000E+050.	0.
0.	0.	.3584000E+00		
CASE NUMBER	124	GROUP NUMBER	1	
.3952847E+01	.3952847E+03	.1000000E+03	.1581139E+03 .1581139E+01 .1317616E+010.	.7290000E+03
.3333333E+000.	.1000000E+05	.3952847E+050.	0.	.7290000E+07 .3333333E+02
.5270463E+000.	0.	.2881626E+040.	.7290000E+050.	0.
0.	0.	.3838000E+00		
CASE NUMBER	125	GROUP NUMBER	1	
.5196152E+01	.5196152E+03	.1000000E+03	.1732051E+03 .1732051E+01 .1732051E+010.	.7290000E+03
.3333333E+000.	.1000000E+05	.5196152E+050.	0.	.7290000E+07 .3333333E+02
.5773503E+000.	0.	.3787995E+040.	.7290000E+050.	0.
0.	0.	.4138000E+00		
CASE NUMBER	126	GROUP NUMBER	1	
.5458113E+01	.5458113E+03	.1000000E+03	.1760682E+03 .1760682E+01 .1819371E+010.	.7290000E+03
.3333333E+000.	.1000000E+05	.5458113E+050.	0.	.7290000E+07 .3333333E+02
.5868939E+000.	0.	.3978965E+040.	.7290000E+050.	0.
0.	0.	.4205000E+00		
CASE NUMBER	127	GROUP NUMBER	1	
.5724334E+01	.5724334E+03	.1000000E+03	.1788854E+03 .1788854E+01 .1908111E+010.	.7290000E+03
.3333333E+000.	.1000000E+05	.5724334E+050.	0.	.7290000E+07 .3333333E+02
.5962848E+000.	0.	.4173040E+040.	.7290000E+050.	0.
0.	0.	.4271000E+00		
CASE NUMBER	128	GROUP NUMBER	1	
.5994748E+01	.5994748E+03	.1000000E+03	.1816590E+03 .1816590E+01 .1998249E+010.	.7290000E+03
.3333333E+000.	.1000000E+05	.5994748E+050.	0.	.7290000E+07 .3333333E+02
.6055301E+000.	0.	.4370171E+040.	.7290000E+050.	0.
0.	0.	.4338000E+00		

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT

CASE NUMBER	129	GROUP NUMBER	1			
.6269290E+01	.6269290E+03	.1000000E+03	.1843909E+03	.1843909E+01	.2089763E+010.	.7290000E+03
.3333333E+000.	.	.1000000E+05	.6269290E+050.	0.	.	.7290000E+07 .3333333E+02
.6146363E+000.	0.	.	.4570313E+040.	.	.7290000E+050.	0.
0.	0.	.	.4410000E+000	.	.	
CASE NUMBER	130	GROUP NUMBER	1			
.6547900E+01	.6547900E+03	.1000000E+03	.1870829E+03	.1870829E+01	.2182633E+010.	.7290000E+03
.3333333E+000.	.	.1000000E+05	.6547900E+050.	0.	.	.7290000E+07 .3333333E+02
.6236096E+000.	0.	.	.4773419E+040.	.	.7290000E+050.	0.
0.	0.	.	.4488000E+000	.	.	
CASE NUMBER	131	GROUP NUMBER	1			
.2628817E-02	.2628817E+00	.1000000E+03	.1380130E+02	.1380130E+00	.8313050E-030.	.1000000E+04
.3162278E+000.	.	.1000000E+05	.2628817E+020.	0.	.	.1000000E+08 .3162278E+02
.4364356E-010.	0.	.	.2628817E+010.	.	.1000000E+060.	0.
0.	0.	.	.2847000E+000	.	.	
CASE NUMBER	132	GROUP NUMBER	1			
.3535534E+000	.3535534E+02	.1000000E+03	.7071068E+02	.7071068E+00	.1118034E+000.	.1000000E+04
.3162278E+000.	.	.1000000E+05	.3535534E+040.	0.	.	.1000000E+08 .3162278E+02
.2236068E+000.	0.	.	.3535534E+030.	.	.1000000E+060.	0.
0.	0.	.	.3052000E+000	.	.	
CASE NUMBER	133	GROUP NUMBER	1			
.1000000E+01	.1000000E+03	.1000000E+03	.1000000E+03	.1000000E+01	.3162278E+000.	.1000000E+04
.3162278E+000.	.	.1000000E+05	.1000000E+050.	0.	.	.1000000E+08 .3162278E+02
.3162278E+000.	0.	.	.1000000E+040.	.	.1000000E+060.	0.
0.	0.	.	.3229000E+000	.	.	
CASE NUMBER	134	GROUP NUMBER	1			
.18371175E+01	.1837117E+03	.1000000E+03	.1224745E+03	.1224745E+01	.5809475E+000.	.1000000E+04
.3162278E+000.	.	.1000000E+05	.1837117E+050.	0.	.	.1000000E+08 .3162278E+02
.3872983E+000.	0.	.	.1837117E+040.	.	.1000000E+060.	0.
0.	0.	.	.3432000E+000	.	.	
CASE NUMBER	135	GROUP NUMBER	1			
.2828427E+01	.2828427E+03	.1000000E+03	.1414214E+03	.1414214E+01	.8944272E+000.	.1000000E+04
.3162278E+000.	.	.1000000E+05	.2828427E+050.	0.	.	.1000000E+08 .3162278E+02
.4472136E+000.	0.	.	.2828427E+040.	.	.1000000E+060.	0.
0.	0.	.	.3670000E+000	.	.	
CASE NUMBER	136	GROUP NUMBER	1			
.3952847E+01	.3952847E+03	.1000000E+03	.1581139E+03	.1581139E+01	.1250000E+010.	.1000000E+04
.3162278E+000.	.	.1000000E+05	.3952847E+050.	0.	.	.1000000E+08 .3162278E+02
.5000000E+000.	0.	.	.3952847E+040.	.	.1000000E+060.	0.
0.	0.	.	.3943000E+000	.	.	

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT

CASE NUMBER	137	GROUP NUMBER	1			
.5196152E+01	.5196152E+03	.1000000E+03	.1732051E+03	.1732051E+01	.1643168E+010.	.1000000E+04
.3162278E+000.	.	.1000000E+05	.5196152E+050.	0.	.	.1000000E+08 .3162278E+02
.5477226E+000.	0.	.	.5196152E+040.	.	.1000000E+060.	0.
0.	0.	.	.4253000E+000	.	.	
CASE NUMBER	138	GROUP NUMBER	1			
.5458113E+01	.5458113E+03	.1000000E+03	.1760682E+03	.1760682E+01	.1726007E+010.	.1000000E+04
.3162278E+000.	.	.1000000E+05	.5458113E+050.	0.	.	.1000000E+08 .3162278E+02
.55877764E+000.	0.	.	.5458113E+040.	.	.1000000E+060.	0.
0.	0.	.	.4327000E+000	.	.	
CASE NUMBER	139	GROUP NUMBER	1			
.5724334E+01	.5724334E+03	.1000000E+03	.1788854E+03	.1788854E+01	.1810193E+010.	.1000000E+04
.3162278E+000.	.	.1000000E+05	.5724334E+050.	0.	.	.1000000E+08 .3162278E+02
.5656854E+000.	0.	.	.5724334E+040.	.	.1000000E+060.	0.
0.	0.	.	.4396000E+000	.	.	
CASE NUMBER	140	GROUP NUMBER	1			
0.	0.	.	.1000000E+030.	0.	0.	.1728000E+04
.2886751E+000.	.	.1000000E+050.	0.	0.	.	.1728000E+08 .2886751E+02
0.	0.	.	0.	0.	.	.1728000E+060.
0.	0.	.	.2903000E+000	.	.	
CASE NUMBER	141	GROUP NUMBER	1			
.3535534E+000	.3535534E+02	.1000000E+03	.7071068E+02	.7071068E+00	.1020621E+000.	.1728000E+04
.2886751E+000.	.	.1000000E+05	.3535534E+040.	0.	.	.1728000E+08 .2886751E+02
.2041241E+000.	0.	.	.6109403E+030.	.	.1728000E+060.	0.
0.	0.	.	.3126000E+000	.	.	
CASE NUMBER	142	GROUP NUMBER	1			
.1000000E+01	.1000000E+03	.1000000E+03	.1000000E+03	.1000000E+01	.2886751E+000.	.1728000E+04
.2886751E+000.	.	.1000000E+05	.1000000E+050.	0.	.	.1728000E+08 .2886751E+02
.2886751E+000.	0.	.	.1728000E+040.	.	.1728000E+060.	0.
0.	0.	.	.3345000E+000	.	.	
CASE NUMBER	143	GROUP NUMBER	1			
.1837117E+01	.1837117E+03	.1000000E+03	.1224745E+03	.1224745E+01	.5303301E+000.	.1728000E+04
.2886751E+000.	.	.1000000E+05	.1837117E+050.	0.	.	.1728000E+08 .2886751E+02
.3535534E+000.	0.	.	.3174539E+040.	.	.1728000E+060.	0.
0.	0.	.	.3575000E+000	.	.	
CASE NUMBER	144	GROUP NUMBER	1			
.2828427E+01	.2828427E+03	.1000000E+03	.1414214E+03	.1414214E+01	.8164966E+000.	.1728000E+04
.2886751E+000.	.	.1000000E+05	.2828427E+050.	0.	.	.1728000E+08 .2886751E+02
.4082483E+000.	0.	.	.4887522E+040.	.	.1728000E+060.	0.
0.	0.	.	.3845000E+000	.	.	

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT
 CASE NUMBER 145 GROUP NUMBER 1
 .3952847E+01 .3952847E+03 .1000000E+03 .1581139E+03 .1581139E+01 .1141089E+010 .1728000E+04
 .2886751E+000 .1000000E+05 .3952847E+050 .0 .1728000E+08 .2886751E+02
 .4564355E+000 .0 .6830520E+040 .1728000E+060 .0
 0 .0 .4153000E+00
 CASE NUMBER 146 GROUP NUMBER 1
 .4192174E+01 .4192374E+03 .1000000E+03 .1612452E+03 .1612452E+01 .1210234E+010 .1728000E+04
 .2886751E+000 .1000000E+05 .4192374E+050 .0 .1728000E+08 .2886751E+02
 .4654747E+000 .0 .7244422E+040 .1728000E+060 .0
 0 .0 .4216000E+00
 CASE NUMBER 147 GROUP NUMBER 1
 .4436553E+01 .4436553E+03 .1000000E+03 .1643168E+03 .1643168E+01 .1280722E+010 .1728000E+04
 .2886751E+000 .1000000E+05 .4436553E+050 .0 .1728000E+08 .2886751E+02
 .4743416E+000 .0 .7566363E+040 .1728000E+060 .0
 0 .0 .4283000E+00
 CASE NUMBER 148 GROUP NUMBER 1
 0 .0 .1000000E+030 .0 .0 .0 .3048625E+04
 .2626129E+000 .1000000E+050 .0 .0 .3048625E+08 .2626129E+02
 0 .0 .0 .0 .0 .3048625E+060 .0
 0 .0 .3020000E+00
 CASE NUMBER 149 GROUP NUMBER 1
 .3535534E+00 .3535534E+02 .1000000E+03 .7071068E+02 .7071068E+00 .9284767E-010 .3048625E+04
 .2626129E+000 .1000000E+05 .3535534E+040 .0 .3048625E+08 .2626129E+02
 .1856953E+000 .0 .1077852E+040 .3048625E+060 .0
 0 .0 .3250000E+00
 CASE NUMBER 150 GROUP NUMBER 1
 .1000000E+01 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .2626129E+000 .3048625E+04
 .2626129E+000 .1000000E+05 .1000000E+050 .0 .3048625E+08 .2626129E+02
 .2626129E+000 .0 .3048625E+040 .3048625E+060 .0
 0 .0 .3496000E+00
 CASE NUMBER 151 GROUP NUMBER 1
 .1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+01 .4824506E+000 .3048625E+04
 .2626129E+000 .1000000E+05 .1837117E+050 .0 .3048625E+08 .2626129E+02
 .3216338E+000 .0 .5600682E+040 .3048625E+060 .0
 0 .0 .3760000E+00
 CASE NUMBER 152 GROUP NUMBER 1
 .2828427E+01 .2828427E+03 .1000000E+03 .1414214E+03 .1414214E+01 .7427814E+000 .3048625E+04
 .2626129E+000 .1000000E+05 .2828427E+050 .0 .3048625E+08 .2626129E+02
 .3713907E+000 .0 .8622814E+040 .3048625E+060 .0
 0 .0 .4065000E+00

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT
 CASE NUMBER 153 GROUP NUMBER 1
 .3043189E+01 .3043189E+03 .1000000E+03 .1449138E+03 .1449138E+01 .7991806E+000 .3048625E+04
 .2626129E+000 .1000000E+05 .3043189E+050 .0 .3048625E+08 .2626129E+02
 .1805622E+000 .0 .9277542E+040 .3048625E+060 .0
 0 .0 .4126000E+00
 CASE NUMBER 154 GROUP NUMBER 1
 0 .0 .2000000E+030 .0 .0 .0 .3430000E+03
 .3779645E+000 .4000000E+050 .0 .0 .1372000E+08 .7559289E+02
 0 .0 .0 .0 .0 .6860000E+050 .0
 0 .0 .2520000E+00
 CASE NUMBER 155 GROUP NUMBER 1
 .3535534E+00 .7071068E+02 .2000000E+03 .1414214E+03 .7071068E+00 .1338306E+000 .3430000E+03
 .3779645E+000 .4000000E+05 .1414214E+050 .0 .1372000E+08 .7559289E+02
 .26772612E+000 .0 .1212588E+030 .6860000E+050 .0
 0 .0 .2647000E+00
 CASE NUMBER 156 GROUP NUMBER 1
 .1000000E+01 .2000000E+03 .2000000E+03 .1000000E+01 .3779645E+000 .3430000E+03
 .3779645E+000 .4000000E+05 .4000000E+050 .0 .1372000E+08 .7559289E+02
 .3779645E+000 .0 .3430000E+030 .6860000E+050 .0
 0 .0 .2782000E+00
 CASE NUMBER 157 GROUP NUMBER 1
 .1837117E+01 .3874235E+03 .2000000E+03 .2449490E+03 .1224745E+01 .6943651E+000 .3430000E+03
 .3779645E+000 .4000000E+05 .7348469E+050 .0 .1372000E+08 .7559289E+02
 .4629100E+000 .0 .6301312E+030 .5860000E+050 .0
 0 .0 .2939000E+00
 CASE NUMBER 158 GROUP NUMBER 1
 .2828427E+01 .5656854E+03 .2000000E+03 .2828427E+03 .1414214E+01 .1069045E+010 .3430000E+03
 .3779645E+000 .4000000E+05 .1131371E+060 .0 .1372000E+08 .7559289E+02
 .5345225E+000 .0 .9701505E+030 .6860000E+050 .0
 0 .0 .3116000E+00
 CASE NUMBER 159 GROUP NUMBER 1
 .3952847E+01 .7905694E+03 .2000000E+03 .3162278E+03 .1581139E+01 .1494036E+010 .3430000E+03
 .3779645E+000 .4000000E+05 .1581139E+060 .0 .1372000E+08 .7559289E+02
 .5976143E+000 .0 .1355827E+040 .6860000E+050 .0
 0 .0 .3340000E+00
 CASE NUMBER 160 GROUP NUMBER 1
 .5196152E+01 .1039230E+04 .2000000E+03 .3464102E+03 .1732051E+01 .1963961E+010 .3430000E+03
 .3779645E+000 .4000000E+05 .2078461E+060 .0 .1372000E+08 .7559289E+02
 .6546537E+000 .0 .1782280E+040 .6860000E+050 .0
 0 .0 .3577000E+00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	161	GROUP NUMBER	1
.6547900E+01	.1309580E+04	.2000000E+03	.3741657E+03 .1870829E+01 .2474874E+010 .3430000E+03
.3779645E+000	.4000000E+05	.2619160E+060	0 .1372000E+08 .7559289E+02
.7071068E+000	0.	.2245930E+040	.6860000E+050 0.
0.	0.	.3858000E+00	
CASE NUMBER	162	GROUP NUMBER	1
.6830520E+01	.1366104E+04	.2000000E+03	.3794733E+03 .1897367E+01 .2581694E+010 .3430000E+03
.3779645E+000	.4000000E+05	.2732208E+060	0 .1372000E+08 .7559289E+02
.7171372E+000	0.	.2342868E+040	.6860000E+050 0.
0.	0.	.3908000E+00	
CASE NUMBER	163	GROUP NUMBER	1
.7117092E+01	.1423418E+04	.2000000E+03	.3847077E+03 .1923538E+01 .2690008E+010 .3430000E+03
.3779645E+000	.4000000E+05	.2846837E+060	0 .1372000E+08 .7559289E+02
.7270292E+000	0.	.2441163E+040	.6860000E+050 0.
0.	0.	.3952000E+00	
CASE NUMBER	164	GROUP NUMBER	1
.7407564E+01	.1481513E+04	.2000000E+03	.3898718E+03 .1949359E+01 .2799796E+010 .3430000E+03
.3779645E+000	.4000000E+05	.2963025E+060	0 .1372000E+08 .7559289E+02
.7367884E+000	0.	.2540794E+040	.6860000E+050 0.
0.	0.	.4019000E+00	
CASE NUMBER	165	GROUP NUMBER	1
0.	0.	.2000000E+030	0 .0 .7290000E+03
.3333333E+000	.4000000E+050	0 .0 .2916000E+08 .6666667E+02	
0.	0.	0 .0 .1458000E+060 0.	
0.	0.	.2585000E+00	
CASE NUMBER	166	GROUP NUMBER	1
.3535533E+000	.7071068E+02	.2000000E+03	.1414214E+03 .7071068E+00 .1178511E+000 .7290000E+03
.3333333E+000	.4000000E+05	.1414214E+050	0 .2916000E+08 .6666667E+02
.2357023E+000	0.	.2577404E+030	.1458000E+060 0.
0.	0.	.2734000E+00	
CASE NUMBER	167	GROUP NUMBER	1
.1000000E+01	.2000000E+03	.2000000E+03	.2000000E+03 .1000000E+01 .3333333E+000 .7290000E+03
.3333333E+000	.4000000E+05	.4000000E+050	0 .2916000E+08 .6666667E+02
.3333333E+000	0.	.7290000E+030	.1458000E+060 0.
0.	0.	.2897000E+00	
CASE NUMBER	168	GROUP NUMBER	1
.1837117E+01	.3674235E+03	.2000000E+03	.2449490E+03 .1224745E+01 .6123724E+000 .7290000E+03
.3333333E+000	.4000000E+05	.7348469E+050	0 .2916000E+08 .6666667E+02
.4082483E+000	0.	.1339259E+040	.1458000E+060 0.
0.	0.	.3083000E+00	

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	169	GROUP NUMBER	1
.2828427E+01	.5656854E+03	.2000000E+03	.2828427E+03 .1414214E+01 .9428090E+000 .7290000E+03
.3333333E+000	.4000000E+05	.1131371E+060	0 .2916000E+08 .6666667E+02
.4714045E+000	0.	.2061923E+040	.1458000E+060 0.
0.	0.	.3298000E+00	
CASE NUMBER	170	GROUP NUMBER	1
.3552847E+01	.7905694E+03	.2000000E+03	.3162278E+03 .1581139E+01 .1317616E+010 .7290000E+03
.3333333E+000	.4000000E+05	.1581139E+060	0 .2916000E+08 .6666667E+02
.5270463E+000	0.	.2881626E+040	.1458000E+060 0.
0.	0.	.3539000E+00	
CASE NUMBER	171	GROUP NUMBER	1
.5196152E+01	.1039230E+04	.2000000E+03	.3464102E+03 .1732051E+01 .1732051E+010 .7290000E+03
.3333333E+000	.4000000E+05	.2078461E+060	0 .2916000E+08 .6666667E+02
.5773503E+000	0.	.3787959E+040	.1458000E+060 0.
0.	0.	.3822000E+00	
CASE NUMBER	172	GROUP NUMBER	1
.5458113E+01	.1091623E+04	.2000000E+03	.3521363E+03 .1760682E+01 .1819371E+010 .7290000E+03
.3333333E+000	.4000000E+05	.2183245E+060	0 .2916000E+08 .6666667E+02
.5868939E+000	0.	.3978965E+040	.1458000E+060 0.
0.	0.	.3884000E+00	
CASE NUMBER	173	GROUP NUMBER	1
.5724334E+01	.1144867E+04	.2000000E+03	.3577709E+03 .1788854E+01 .1908111E+010 .7290000E+03
.3333333E+000	.4000000E+05	.2289734E+060	0 .2916000E+08 .6666667E+02
.5962848E+000	0.	.4173040E+040	.1458000E+060 0.
0.	0.	.3948000E+00	
CASE NUMBER	174	GROUP NUMBER	1
0.	0.	.2000000E+030	0 .0 .1000000E+04
.3162278E+000	.4000000E+050	0 .0 .4000000E+08 .6324555E+02	
0.	0.	0 .0 .2000000E+060 0.	
0.	0.	.2619000E+00	
CASE NUMBER	175	GROUP NUMBER	1
.3535534E+000	.7071068E+02	.2000000E+03	.1414214E+03 .7071068E+00 .1118034E+000 .1000000E+04
.3162278E+000	.4000000E+05	.1414214E+050	0 .4000000E+08 .6324555E+02
.2236068E+000	0.	.3535534E+030	.2000000E+060 0.
0.	0.	.2783000E+00	
CASE NUMBER	176	GROUP NUMBER	1
.1000000E+01	.2000000E+03	.2000000E+03	.2000000E+03 .1000000E+01 .3162278E+000 .1000000E+04
.3162278E+000	.4000000E+05	.4000000E+050	0 .4000000E+08 .6324555E+02
.3162278E+000	0.	.1000000E+040	.2000000E+060 0.
0.	0.	.2956000E+00	

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	177	GROUP NUMBER	1				
.1837117E+01	.3674235E+03	.2000000E+03	.2449490E+03	.1224745E+01	.5809475E+000	.1000000E+04	
.3162278E+000	.0	.4000000E+05	.7348469E+050	0.	0.	.4000000E+08	.6324555E+02
.3872983E+000	0.	0.	0.	.1837117E+040	.2000000E+060	0.	
0.	0.	0.	0.	.3160000E+00			
CASE NUMBER	178	GROUP NUMBER	1				
.2828427E+01	.5656854E+03	.2000000E+03	.2828427E+03	.1414214E+01	.8944272E+000	.1000000E+04	
.3162278E+000	.0	.4000000E+05	.1131371E+060	0.	0.	.4000000E+08	.6324555E+02
.4472136E+000	0.	0.	0.	.2828427E+040	.2000000E+060	0.	
0.	0.	0.	0.	.3382000E+00			
CASE NUMBER	179	GROUP NUMBER	1				
.3952847E+01	.7905694E+03	.2000000E+03	.3162278E+03	.1581139E+01	.1250000E+010	.1000000E+04	
.3162278E+000	.0	.4000000E+05	.1581139E+060	0.	0.	.4000000E+08	.6324555E+02
.5000000E+000	0.	0.	0.	.3952847E+040	.2000000E+060	0.	
0.	0.	0.	0.	.3839000E+00			
CASE NUMBER	180	GROUP NUMBER	1				
.4192374E+01	.8384748E+03	.2000000E+03	.3224903E+03	.1612452E+01	.1325745E+010	.1000000E+04	
.3162278E+000	.0	.4000000E+05	.1676950E+060	0.	0.	.4000000E+08	.6324555E+02
.5099020E+000	0.	0.	0.	.4192374E+040	.2000000E+060	0.	
0.	0.	0.	0.	.3696000E+00			
CASE NUMBER	181	GROUP NUMBER	1				
.4436553E+01	.8873105E+03	.2000000E+03	.3286335E+03	.1643168E+01	.1402961E+010	.1000000E+04	
.3162278E+000	.0	.4000000E+05	.1774621E+060	0.	0.	.4000000E+08	.6324555E+02
.5196152E+000	0.	0.	0.	.4436553E+040	.2000000E+060	0.	
0.	0.	0.	0.	.3754000E+00			
CASE NUMBER	182	GROUP NUMBER	1				
.4685296E+01	.9370592E+03	.2000000E+03	.3346640E+03	.1673320E+01	.1481621E+010	.1000000E+04	
.3162278E+000	.0	.4000000E+05	.1874118E+060	0.	0.	.4000000E+08	.6324555E+02
.5291503E+000	0.	0.	0.	.4685296E+040	.2000000E+060	0.	
0.	0.	0.	0.	.3815000E+00			
CASE NUMBER	183	GROUP NUMBER	1				
.4938522E+01	.9877044E+03	.2000000E+03	.3405877E+03	.1702939E+01	.1561698E+010	.1000000E+04	
.3162278E+000	.0	.4000000E+05	.1975409E+060	0.	0.	.4000000E+08	.6324555E+02
.5385165E+000	0.	0.	0.	.4938522E+040	.2000000E+060	0.	
0.	0.	0.	0.	.3878000E+00			
CASE NUMBER	184	GROUP NUMBER	1				
0.	0.	.2000000E+030	0.	0.	0.	.1728000E+04	
.2886751E+000	.0	.4000000E+050	0.	0.	0.	.6912000E+08	.5773503E+02
0.	0.	0.	0.	0.	.3456000E+060	0.	
0.	0.	0.	0.	.2691000E+00			

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	185	GROUP NUMBER	1				
.1535534E+00	.7071068E+02	.2000000E+03	.1414214E+03	.7071068E+00	.1020621E+000	.1728000E+04	
.2886751E+000	.0	.4000000E+05	.1414214E+050	0.	0.	.6912000E+08	.5773503E+02
.2041241E+000	0.	0.	.6109403E+030	.3456000E+060	0.		
0.	0.	0.	0.	.2887000E+00			
CASE NUMBER	186	GROUP NUMBER	1				
.1000000E+01	.2000000E+03	.2000000E+03	.2000000E+03	.1000000E+01	.2886751E+000	.1728000E+04	
.2886751E+000	.0	.4000000E+05	.4000000E+050	0.	0.	.6912000E+08	.5773503E+02
.2886751E+000	0.	0.	.1728000E+040	.3456000E+060	0.		
0.	0.	0.	0.	.3083000E+00			
CASE NUMBER	187	GROUP NUMBER	1				
.1837117E+01	.3674235E+03	.2000000E+03	.2449490E+03	.1224745E+01	.5303301E+000	.1728000E+04	
.2886751E+000	.0	.4000000E+05	.7348469E+050	0.	0.	.6912000E+08	.5773503E+02
.3535534E+000	0.	0.	.3174539E+040	.3456000E+060	0.		
0.	0.	0.	0.	.3304000E+00			
CASE NUMBER	188	GROUP NUMBER	1				
.2828427E+01	.5656854E+03	.2000000E+03	.2828427E+03	.1414214E+01	.8164966E+000	.1728000E+04	
.2886751E+000	.0	.4000000E+05	.1131371E+060	0.	0.	.6912000E+08	.5773503E+02
.4082483E+000	0.	0.	.4887522E+040	.3456000E+060	0.		
0.	0.	0.	0.	.3550000E+00			
CASE NUMBER	189	GROUP NUMBER	1				
.3043188E+01	.6086378E+03	.2000000E+03	.2898275E+03	.1449138E+01	.8784930E+000	.1728000E+04	
.2886751E+000	.0	.4000000E+05	.1212727E+060	0.	0.	.6912000E+08	.5773503E+02
.4183300E+000	0.	0.	.5258631E+040	.3456000E+060	0.		
0.	0.	0.	0.	.3605000E+00			
CASE NUMBER	190	GROUP NUMBER	1				
.3263127E+01	.6526255E+03	.2000000E+03	.2966479E+03	.1483240E+01	.9419837E+000	.1728000E+04	
.2886751E+000	.0	.4000000E+05	.1305251E+060	0.	0.	.6912000E+08	.5773503E+02
.4281744E+000	0.	0.	.5621684E+040	.3456000E+060	0.		
0.	0.	0.	0.	.3661000E+00			
CASE NUMBER	191	GROUP NUMBER	1				
.3480123E+01	.6976245E+03	.2000000E+03	.3033150E+03	.1516575E+01	.1006934E+010	.1728000E+04	
.2886751E+000	.0	.4000000E+05	.1395249E+060	0.	0.	.6912000E+08	.5773503E+02
.4377975E+000	0.	0.	.6022747E+040	.3456000E+060	0.		
0.	0.	0.	0.	.3719000E+00			
CASE NUMBER	192	GROUP NUMBER	1				
.3718064E+01	.7436128E+03	.2000000E+03	.3098387E+03	.1549193E+01	.1073313E+010	.1728000E+04	
.2886751E+000	.0	.4000000E+05	.1487226E+060	0.	0.	.6912000E+08	.5773503E+02
.4472136E+000	0.	0.	.6424815E+040	.3456000E+060	0.		
0.	0.	0.	0.	.3779000E+00			

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	GROUP NUMBER
.1707467E-02 .3414934E+00 .2000000E+03 .2390456E+02 .1195228E+00 .4484028E-030.	.3048625E+04
.2626129E+000. .4000000E+05 .6829868E-020. .0. .1219450E+09 .5252257E+02	
.3138823E-010. .0. .5205426E-010. .6097250E+060. .0.	
0. .0. .2821000E+00	
CASE NUMBER 194	GROUP NUMBER 1
.3535534E+00 .7071068E+02 .2000000E+03 .1414214E+03 .7071068E+00 .9284767E-010.	.3048625E+04
.2626129E+000. .4000000E+05 .1414214E+050. .0. .1219450E+09 .5252257E+02	
.1856953E+000. .0. .1077852E+040. .6097250E+060. .0.	
0. .0. .3033000E+00	
CASE NUMBER 195	GROUP NUMBER 1
.1000000E+01 .2000000E+03 .2000000E+03 .1000000E+01 .1000000E+01 .2626129E+000.	.3048625E+04
.2626129E+000. .4000000E+05 .4000000E+050. .0. .1219450E+09 .5252257E+02	
.2626129E+000. .0. .3048625E+040. .6097250E+060. .0.	
0. .0. .3235000E+00	
CASE NUMBER 196	GROUP NUMBER 1
.1837117E+01 .3674235E+03 .2000000E+03 .2449490E+03 .1224745E+01 .4824506E+000.	.3048625E+04
.2626129E+000. .4000000E+05 .7348469E+050. .0. .1219450E+09 .5252257E+02	
.3216338E+000. .0. .5600682E+040. .6097250E+060. .0.	
0. .0. .3477000E+00	
CASE NUMBER 197	GROUP NUMBER 1
.2023858E+01 .4047715E+03 .2000000E+03 .2529822E+03 .1264911E+01 .5314911E+000.	.3048625E+04
.2626129E+000. .4000000E+05 .8095431E+050. .0. .1219450E+09 .5252257E+02	
.3321819E+000. .0. .6169983E+040. .6097250E+060. .0.	
0. .0. .3529000E+00	
CASE NUMBER 198	GROUP NUMBER 1
.2216529E+01 .4433058E+03 .2000000E+03 .2607681E+03 .1303840E+01 .5820890E+000.	.3048625E+04
.2626129E+000. .4000000E+05 .8866115E+050. .0. .1219450E+09 .5252257E+02	
.3424053E+000. .0. .6757365E+040. .6097250E+060. .0.	
0. .0. .3584000E+00	
CASE NUMBER 199	GROUP NUMBER 1
.2414953E+01 .4829907E+03 .2000000E+03 .2683282E+03 .1341641E+01 .6341978E+000.	.3048625E+04
.2626129E+000. .4000000E+05 .9659814E+050. .0. .1219450E+09 .5252257E+02	
.3523321E+000. .0. .7362287E+040. .6097250E+060. .0.	
0. .0. .3641000E+00	
CASE NUMBER 200	GROUP NUMBER 2
0. .0. -.5000000E+020. .0. .0. .0. .3430000E+03	
.3779645E+000. .2500000E+040. .5832000E+04. .6803361E+01 .8575000E+06-.1889822E+02	
0. .0. .1800000E+020. .0. .0. .-1715000E+050. .0.	
0. .0. -.2916000E+06 .3057000E+00	

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	GROUP NUMBER
201	2
.3535534E+000-.1767767E+02-.5000000E+02-.3535534E+02 .7071068E+00 .1336306E+00 .1272792E+02 .3430000E+03	
.3779645E+000 .6363961E+01 .2500000E+04 .883835E+03 .5832000E+04 .6803361E+01 .8575000E+06-.1889822E+02	
.2672612E+000 .4123847E+04 .1800000E+02 .1212688E+03-.3181981E+03-.1715000E+05 .1509990E+05 .2061923E+04	
-.6363961E+03 .3181981E+05-.2916000E+06 .3284000E+00	
CASE NUMBER 202	GROUP NUMBER 2
.1000000E+01-.5000000E+02-.5000000E+02-.5000000E+02 .1000000E+01 .3779645E+00 .1800000E+02 .3430000E+03	
.3779645E+000 .1800000E+02 .2500000E+04 .2500000E+04 .5832000E+04 .6803361E+01 .8575000E+06-.1889822E+02	
.3779645E+000 .5832000E+04 .1800000E+02 .3430000E+03-.9000000E+03-.1715000E+05 .4500000E+05 .5832000E+04	
-.9000000E+03 .4500000E+05-.2916000E+06 .3476000E+00	
CASE NUMBER 203	GROUP NUMBER 2
.1936408E+01 .8682038E+02 .5000000E+02+.6232117E+02 .1246423E+01 .7318934E+00 .2243562E+02 .3430000E+03	
.3779645E+000 .3485534E+02 .2500000E+04 .4841020E+04 .5832000E+04 .6803361E+01 .8575000E+06-.1889822E+02	
.4711038E+00 .7268142E+04 .1800000E+02 .6641879E+03-.1742767E+04-.1715000E+05 .8713835E+05 .1129313E+05	
-.1121781E+04 .5608905E+04-.2916000E+06 .3715000E+00	
CASE NUMBER 204	GROUP NUMBER 2
.2828427E+01-.1414214E+03-.5000000E+02-.7071068E+02 .1414214E+01 .1069045E+01 .2545584E+02 .3430000E+03	
.3779645E+000 .5091116E+02 .2500000E+04 .7071068E+04 .5832000E+04 .6803361E+01 .8575000E+06-.1889822E+02	
.5345225E+000 .82476893E+04 .1800000E+02 .9701505E+03-.2545584E+04-.1715000E+05 .1272792E+06 .1649539E+05	
-.1272792E+04 .6363961E+05-.2916000E+06 .3930000E+00	
CASE NUMBER 205	GROUP NUMBER 2
.3981115E+01-.1990558E+03-.5000000E+02-.7924495E+02 .1584899E+01 .1504720E+01 .2852818E+02 .3430000E+03	
.3779645E+000 .7166008E+02 .2500000E+04 .9952788E+04 .5832000E+04 .6803361E+01 .8575000E+06-.1889822E+02	
.5990355E+000 .9243131E+04 .1800000E+02 .1365522E+04-.3583004E+04-.1715000E+05 .1791502E+06 .2321788E+05	
-.1426409E+04 .7132045E+05-.2916000E+06 .4240000E+00	
CASE NUMBER 206	GROUP NUMBER 2
.51961152E+01-.2598076E+03-.5000000E+02-.8660254E+02 .1732051E+01 .1963961E+01 .3117691E+02 .3430000E+03	
.3779645E+000 .9353074E+02 .2500000E+04 .1299038E+05 .5832000E+04 .6803361E+01 .8575000E+06-.1889822E+02	
.6546537E+000 .1010132E+05 .1800000E+02 .1782280E+04-.4676537E+04-.1715000E+05 .2338269E+06 .3030396E+05	
-.1558846E+04 .7794229E+05-.2916000E+06 .4592000E+00	
CASE NUMBER 207	GROUP NUMBER 2
.6547900E+01-.3273950E+03-.5000000E+02-.9354143E+02 .1870829E+01 .2474874E+01 .3367492E+02 .3430000E+03	
.3779645E+000 .1178522E+03 .2500000E+04 .1636975E+05 .5832000E+04 .6803361E+01 .8575000E+06-.1889822E+02	
.7071068E+000 .1091067E+05 .1800000E+02 .2245930E+04-.5893110E+04-.1715000E+05 .2946555E+06 .3818736E+05	
-.1683746E+04 .8418729E+05-.2916000E+06 .4919000E+00	
CASE NUMBER 208	GROUP NUMBER 2
.8000000E+01-.4000000E+03-.5000000E+02-.1000000E+03 .2000000E+01 .3023716E+01 .3600000E+02 .3430000E+03	
.3779645E+000 .1440000E+03 .2500000E+04 .2000000E+05 .5832000E+04 .6803361E+01 .8575000E+06-.1889822E+02	
.7559289E+000 .1166400E+05 .1800000E+02 .2744000E+04-.7200000E+04-.1715000E+05 .3600000E+06 .4665600E+05	
-.1800000E+04 .9000000E+05-.2916000E+06 .5292000E+00	

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	GROUP NUMBER	2
.8301867E+01-.4150934E+03-.5000000E+02-.1012423E+03 .2024846E+01 .3137811E+01 .3644722E+02 .3430000E+03		
.2779645E+00 .1494136E+03 .2500000E+04 .2075467E+05 .5832000E+04 .6803361E+01 .8575000E+06-.1889822E+02		
.7653197E+00 .1180890E+05 .1800000E+02 .2847540E+04-.7471681E+04-.1715000E+05 .3735840E+06 .4841649E+05		
-.1822361E+04 .9111806E+05-.2916000E+06 .5419000E+00		
CASE NUMBER	GROUP NUMBER	2
.8607439E+01-.4303719E+03-.5000000E+02-.1024695E+03 .2049390E+01 .3253205E+01 .3688902E+02 .3430000E+03		
.3779645E+00 .1549339E+03 .2500000E+04 .2151860E+05 .5832000E+04 .6803361E+01 .8575000E+06-.1889822E+02		
.7745956E+00 .1195204E+05 .1800000E+02 .2952351E+04-.7746695E+04-.1715000E+05 .3873347E+06 .5019858E+05		
-.1844451E+04 .9222256E+05-.2916000E+06 .5488000E+00		
CASE NUMBER	GROUP NUMBER	2
.8916670E+01-.4458335E+03-.5000000E+02-.1036822E+03 .2073644E+01 .3370184E+01 .3732559E+02 .3430000E+03		
.3779645E+00 .1605001E+03 .2500000E+04 .2229167E+05 .5832000E+04 .6803361E+01 .8575000E+06-.1889822E+02		
.7837628E+00 .1209349E+05 .1800000E+02 .3058418E+04-.8025003E+04-.1715000E+05 .4012501E+06 .5200202E+05		
-.1866280E+04 .9331399E+05-.2916000E+06 .5498000E+00		
CASE NUMBER	GROUP NUMBER	2
0. 0. -.5000000E+020. 0. 0. .7290000E+03		
.3333333E+000. .2500000E+040. .5832000E+04 .6000000E+01 .1822500E+07-.1666667E+02		
0. 0. .1800000E+020. 0. -.3645000E+050. 0.		
0. 0. -.2916000E+06 .3094000E+00		
CASE NUMBER	GROUP NUMBER	2
.3535534E+00-.1767776E+02-.5000000E+02-.7071068E+00 .1178511E+00 .1272792E+02 .7290000E+03		
.3333333E+00 .63639561E+01 .2500000E+04 .8838835E+03 .5832000E+04 .6000000E+01 .1822500E+07-.1666667E+02		
.2357023E+00 .4123847E+04 .1800000E+02 .2577404E+03-.3181981E+03-.3645000E+05 .1590990E+05 .2061923E+04		
-.63639561E+03 .3181981E+05-.2916000E+06 .3344000E+00		
CASE NUMBER	GROUP NUMBER	2
.1000000E+01-.5000000E+02-.5000000E+02 .1000000E+01 .3333333E+00 .1800000E+02 .7290000E+03		
.3333333E+00 .1800000E+02 .2500000E+04 .2500000E+04 .5832000E+04 .6000000E+01 .1822500E+07-.1666667E+02		
-.9000000E+03 .4500000E+05-.2916000E+06 .3620000E+00		
CASE NUMBER	GROUP NUMBER	2
.18371117E+01-.9185587E+02-.5000000E+02-.6123724E+02 .1224745E+01 .6123724E+00 .2204541E+02 .7290000E+03		
.3333333E+00 .3306811E+02 .2500000E+04 .4592793E+04 .5832000E+04 .6000000E+01 .1822500E+07-.1666667E+02		
.4082482E+00 .7142712E+04 .1800000E+02 .1339259E+04-.1653406E+04-.3645000E+05 .8267028E+05 .1071407E+05		
-.1102270E+04 .5611352E+05-.2916000E+06 .3920000E+00		
CASE NUMBER	GROUP NUMBER	2
.2828427E+01-.1414214E+03-.5000000E+02-.7071068E+02 .1414214E+01 .9428090E+00 .2545584E+02 .7290000E+03		
.3333333E+00 .5091169E+02 .2500000E+04 .7071068E+04 .5832000E+04 .6000000E+01 .1822500E+07-.1666667E+02		
.4714045E+00 .8247683E+04 .1800000E+02 .2061923E+04-.2545584E+04-.3645000E+05 .1272792E+06 .1649539E+05		
-.1272792E+04 .6363961E+05-.2916000E+06 .4220000E+00		

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	GROUP NUMBER	2
.3952847E+01-.1976424E+03-.5000000E+02-.7905694E+02 .1581139E+01 .2846050E+02 .7290000E+03		
.3333333E+00 .7115125E+02 .2500000E+04 .9882118E+04 .5832000E+04 .6000000E+01 .1822500E+07-.1666667E+02		
.5270463E+00 .9221202E+04 .1800000E+02 .2881626E+04-.3557562E+04-.3645000E+05 .1778781E+06 .2305300E+05		
-.1423025E+00 .7115125E+05-.2916000E+06 .4503000E+00		
CASE NUMBER	GROUP NUMBER	2
.5196152E+01-.2588076E+03-.5000000E+02-.8660254E+02 .1732051E+01 .1732051E+01 .3117691E+02 .7290000E+03		
.3333333E+00 .9353074E+02 .2500000E+04 .1299038E+05 .5832000E+04 .6000000E+01 .1822500E+07-.1666667E+02		
.5773503E+00 .1010132E+05 .1800000E+02 .3787995E+04-.4676537E+04-.3645000E+05 .2338269E+06 .3030396E+05		
-.1558846E+04 .7794229E+05-.2916000E+06 .4854000E+00		
CASE NUMBER	GROUP NUMBER	2
.6547900E+01-.3273950E+03-.5000000E+02-.9354143E+02 .1870829E+01 .2182633E+01 .3367492E+02 .7290000E+03		
.3333333E+00 .1178622E+02 .2500000E+04 .1636975E+04 .5832000E+04 .6000000E+01 .1822500E+07-.1666667E+02		
.6236096E+00 .1091067E+05 .1800000E+02 .4773419E+04-.5893110E+04-.3645000E+05 .2946555E+06 .3817373E+05		
-.1683746E+04 .8418729E+05-.2916000E+06 .5325000E+00		
CASE NUMBER	GROUP NUMBER	2
.6830520E+01-.3415260E+03-.5000000E+02-.9486833E+02 .1897367E+01 .2276840E+01 .3415260E+02 .7290000E+03		
.3333333E+00 .1229494E+02 .2500000E+04 .1707630E+05 .5832000E+04 .6000000E+01 .1822500E+07-.1666667E+02		
.6324555E+00 .1105544E+05 .1800000E+02 .4979449E+04-.6147468E+04-.3645000E+05 .3073734E+06 .3983559E+05		
-.1707630E+04 .8538150E+05-.2916000E+06 .5439000E+00		
CASE NUMBER	GROUP NUMBER	2
.717092E+01-.3415260E+03-.5000000E+02-.9617692E+02 .1923538E+01 .2372364E+01 .3462369E+02 .7290000E+03		
.3333333E+00 .1281077E+02 .2500000E+04 .1779273E+05 .5832000E+04 .6000000E+01 .1822500E+07-.1666667E+02		
.6411795E+00 .1121808E+05 .1800000E+02 .5400114E+04-.6405383E+04-.3645000E+05 .3202691E+06 .4150688E+05		
-.17311185E+04 .8655923E+05-.2916000E+06 .5494000E+00		
CASE NUMBER	GROUP NUMBER	2
.74075564E+01-.3703782E+03-.5000000E+02-.9746794E+02 .1949359E+01 .2469188E+01 .3508846E+02 .7290000E+03		
.3333333E+00 .1333361E+03 .2500000E+04 .1815189E+05 .5832000E+04 .6000000E+01 .1822500E+07-.1666667E+02		
.6497863E+00 .1136866E+05 .1800000E+02 .5400114E+04-.6666807E+04-.3645000E+05 .3333404E+06 .4320091E+05		
-.1754423E+04 .8772115E+05-.2916000E+06 .5502000E+00		
CASE NUMBER	GROUP NUMBER	2
0. 0. -.5000000E+020. 0. 0. .1000000E+04		
.3162278E+000. .2500000E+040. .5832000E+04 .5692100E+01 .2500000E+07-.1581139E+02		
0. 0. .1800000E+020. 0. -.5000000E+050. 0.		
0. 0. -.2916000E+06 .3174000E+00		
CASE NUMBER	GROUP NUMBER	2
.3535534E+00-.1767767E+02-.5000000E+02-.3535534E+02 .7071068E+00 .1118034E+00 .1272792E+02 .1000000E+04		
.3162278E+00 .63639561E+01 .2500000E+04 .8838835E+03 .5832000E+04 .5692100E+01 .2500000E+07-.1581139E+02		
.2236068E+00 .4123847E+04 .1800000E+02 .3535534E+03-.3181981E+03-.5000000E+05 .1590990E+05 .2061923E+04		
-.63639561E+03 .3181981E+05-.2916000E+06 .3455000E+00		

NADC-77036-30

FRIDAY, JUL 2, 1976

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TRANSGENERATED
DATA INPUT
CASE NUMBER 225 GROUP NUMBER 2
.1000000E+01-.5000000E+02-.5000000E+02-.5000000E+02 .1000000E+01 .3162278E+00 .1800000E+02 .1000000E+04
.3162278E+00 .1800000E+02 .2500000E+04 .2500000E+04 .5832000E+04 .5692100E+01 .2500000E+07-.1581139E+02
.3162278E+00 .5832000E+04 .1800000E+02 .1000000E+04-.9000000E+03-.5000000E+05 .4500000E+05 .5832000E+04
-.9000000E+03 .4500000E+05-.2916000E+06 .3743000E+00
CASE NUMBER 226 GROUP NUMBER 2
.1837117E+01-.9185587E+02-.5000000E+02-.6123724E+02 .1224745E+01 .5809475E+00 .2204541E+02 .1000000E+04
.3162278E+00 .3306811E+02 .2500000E+04 .4552793E+04 .5832000E+04 .5692100E+01 .2500000E+07-.1581139E+02
.3872983E+00 .7142712E+04 .1800000E+02 .1837117E+04-.1653406E+04-.5000000E+05 .8267028E+05 .1071407E+05
-.1102270E+04 .55111352E+05-.2916000E+06 .4040000E+00
CASE NUMBER 227 GROUP NUMBER 2
.2930041E+01-.1465021E+03-.5000000E+02-.7154752E+02 .1430950E+01 .9265604E+00 .2575711E+02 .1000000E+04
.3162278E+00 .5274074E+02 .2500000E+04 .7325103E+04 .5832000E+04 .5692100E+01 .2500000E+07-.1581139E+02
.4525062E+00 .8345303E+04 .1800000E+02 .2930041E+04-.2637037E+04-.5000000E+05 .1318519E+06 .1708800E+05
-.1287855E+04 .6439277E+05-.2916000E+06 .4350000E+00
CASE NUMBER 228 GROUP NUMBER 2
.4066322E+01-.2033161E+03-.5000000E+02-.7980631E+02 .1596126E+01 .1285884E+01 .2873027E+02 .1000000E+04
.3162278E+00 .7319379E+02 .2500000E+04 .1016580E+05 .5832000E+04 .5692100E+01 .2500000E+07-.1581139E+02
.5047394E+00 .9306608E+04 .1800000E+02 .4066322E+04-.3659689E+04-.5000000E+05 .1829845E+06 .2371479E+05
-.1436514E+04 .7182656E+05-.2916000E+06 .4650000E+00
CASE NUMBER 229 GROUP NUMBER 2
.5196152E+01-.2598076E+03-.5000000E+02-.8660254E+02 .1732051E+01 .1643168E+01 .3117691E+02 .1000000E+04
.3162278E+00 .9353074E+02 .2500000E+04 .1299038E+05 .5832000E+04 .5692100E+01 .2500000E+07-.1581139E+02
.5477226E+00 .1010132E+05 .1800000E+02 .5196152E+04-.4676537E+04-.5000000E+05 .2338269E+06 .3030396E+05
-.1558846E+04 .7794229E+05-.2916000E+06 .5026000E+00
CASE NUMBER 230 GROUP NUMBER 2
.6547900E+01-.3273950E+03-.5000000E+02-.9354143E+02 .1870829E+01 .2070628E+01 .3367492E+02 .1000000E+04
.3162278E+00 .1178622E+03 .2500000E+04 .1636975E+05 .5832000E+04 .5692100E+01 .2500000E+07-.1581139E+02
.5916080E+00 .1091067E+05 .1800000E+02 .6547900E+04-.5893110E+04-.5000000E+05 .2946555E+06 .3818736E+05
-.1683746E+04 .8418729E+05-.2916000E+06 .5495000E+00
CASE NUMBER 231 GROUP NUMBER 2
.6830520E+01-.3415260E+03-.5000000E+02-.9486833E+02 .1897367E+01 .2160000E+01 .3415260E+02 .1000000E+04
.3162278E+00 .1229494E+03 .2500000E+04 .1707630E+05 .5832000E+04 .5692100E+01 .2500000E+07-.1581139E+02
.6000000E+00 .1106544E+05 .1800000E+02 .6830520E+04-.6147468E+04-.5000000E+05 .3073734E+06 .3983559E+05
-.1707630E+04 .8538150E+05-.2916000E+06 .5498000E+00
CASE NUMBER 232 GROUP NUMBER 2
0. 0. -.5000000E+020. 0. 0. 0. 0. .1728000E+04
.2886751E+000. 2500000E+040. 5832000E+04 .5196152E+01 .4320000E+07-.1443376E+02
0. 0. 1800000E+020. 0. -.8640000E+050. 0.
0. 0. -.2916000E+06 .3364000E+00

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FRIDAY, JUL 2, 1976

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TRANSGENERATED
DATA INPUT
CASE NUMBER 233 GROUP NUMBER 2
.3535534E+00-.17677767E+02-.5000000E+02-.3525534E+02 .7071068E+00 .1020621E+00 .1272792E+02 .1728000E+04
.2886751E+00 .6363961E+01 .2500000E+04 .881835E+03 .5832000E+04 .5196152E+01 .4320000E+07-.1443376E+02
.2041241E+00 .4123847E+04 .1800000E+02 .6109403E+03-.3181981E+03-.8640000E+05 .1590990E+05 .2661923E+04
-.5363961E+03 .3181981E+05-.2916000E+06 .3647000E+00
CASE NUMBER 234 GROUP NUMBER 2
.1000000E+01-.5000000E+02-.5000000E+02-.1000000E+01 .2886751E+00 .1800000E+02 .1728000E+04
.2886751E+00 .1800000E+02 .2500000E+04 .2500000E+04 .5832000E+04 .5196152E+01 .4320000E+07-.1443376E+02
.2886751E+00 .5832000E+04 .1800000E+02 .1728000E+04-.9000000E+03-.8640000E+05 .4500000E+05 .5832000E+04
-.9000000E+03 .4500000E+05-.2916000E+06 .3935000E+00
CASE NUMBER 235 GROUP NUMBER 2
.1761105E+01-.8805524E+02-.5000000E+02-.6038704E+02 .1207615E+01 .5083872E+00 .2173705E+02 .1728000E+04
.2886751E+00 .3169989E+02 .2500000E+04 .4402762E+04 .5832000E+04 .5196152E+01 .4320000E+07-.1443376E+02
.3486803E+00 .7042808E+04 .1800000E+02 .2043189E+04-.1584994E+04-.8640000E+05 .7924971E+05 .1027076E+05
-.1086853E+04 .5434266E+05-.2916000E+06 .4180000E+00
CASE NUMBER 236 GROUP NUMBER 2
.2715549E+01-.1357775E+03-.5000000E+02-.8975723E+02 .1395145E+01 .7839116E+00 .2511260E+02 .1728000E+04
.2886751E+00 .4887898E+02 .2500000E+04 .6788874E+04 .5832000E+04 .5196152E+01 .4320000E+07-.1443376E+02
.4027433E+00 .8136484E+04 .1800000E+02 .4692469E+04-.2443995E+04-.8640000E+05 .1221997E+06 .1583708E+05
-.1255630E+04 .6278151E+05-.2916000E+06 .4480000E+00
CASE NUMBER 237 GROUP NUMBER 2
.3952847E+01-.1976424E+03-.5000000E+02-.7905694E+02 .1581139E+01 .1141089E+01 .2846050E+02 .1728000E+04
.2886751E+00 .7115125E+02 .2500000E+04 .9882118E+04 .5832000E+04 .5196152E+01 .4320000E+07-.1443376E+02
.4564355E+00 .9221202E+04 .1800000E+02 .6830520E+04-.3557562E+04-.8640000E+05 .1778781E+06 .2305300E+05
-.1423025E+04 .7115125E+05-.2916000E+06 .4892000E+00
CASE NUMBER 238 GROUP NUMBER 2
.4192374E+01-.2096187E+03-.5000000E+02-.8062258E+02 .1612452E+01 .1210234E+01 .2902413E+02 .1728000E+04
.2886751E+00 .7546273E+02 .2500000E+04 .1048094E+05 .5832000E+04 .5196152E+01 .4320000E+07-.1443376E+02
.4654747E+00 .9403817E+04 .1800000E+02 .7244422E+04-.3773137E+04-.8640000E+05 .18866568E+06 .2444993E+05
-.1451206E+04 .7256032E+05-.2916000E+06 .4987000E+00
CASE NUMBER 239 GROUP NUMBER 2
.4436553E+01-.2218276E+03-.5000000E+02-.8215838E+02 .1643168E+01 .1280722E+01 .2957702E+02 .1728000E+04
.2886751E+00 .7985795E+02 .2500000E+04 .1109138E+05 .5832000E+04 .5196152E+01 .4320000E+07-.1443376E+02
.4743416E+00 .9582954E+04 .1800000E+02 .7665363E+04-.3992897E+04-.8640000E+05 .1996449E+06 .2587398E+05
-.1478851E+04 .7394255E+05-.2916000E+06 .5068000E+00
CASE NUMBER 240 GROUP NUMBER 2
.4685296E+01-.2342648E+03-.5000000E+02-.8366600E+02 .1673320E+01 .1352528E+01 .3011976E+02 .1728000E+04
.2886751E+00 .8433533E+02 .2500000E+04 .1171324E+05 .5832000E+04 .5196152E+01 .4320000E+07-.1443376E+02
.4830459E+00 .9758803E+04 .1800000E+02 .8096192E+04-.4216767E+04-.8640000E+05 .2108383E+06 .2732465E+05
-.1505988E+04 .7529940E+05-.2916000E+06 .5156000E+00

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NADC-77036-30

FRIDAY, JUL 2, 1976

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TRANSGENERATED
DATA INPUT
CASE NUMBER 241          GROUP NUMBER 2
.4938522E+01-.2469261E+03-.5000000E+02-.8514693E+02 .1702639E+01 .1425629E+01 .3065290E+02 .1728000E+04
.2886751E+00 .8889340E+02 .2500000E+04 .1234631E+05 .5832000E+04 .5196152E+01 .4320000E+07-.1443376E+02
.4915960E+00 .9931538E+04 .1800000E+02 .8533766E+04-.4444670E+04-.8640000E+05 .2222335E+06 .2880146E+05
-.1532645E+04 .7663224E+05-.2916000E+06 .5257000E+00
CASE NUMBER 242          GROUP NUMBER 2
.5196152E+01-.2598076E+03-.5000000E+02-.8660254E+02 .1732051E+01 .1500000E+01 .3117691E+02 .1728000E+04
.2886751E+00 .9353074E+02 .2500000E+04 .1299038E+05 .5832000E+04 .5196152E+01 .4320000E+07-.1443376E+02
.5000000E+00 .1010132E+05 .1800000E+02 .8978951E+04-.4676537E+04-.8640000E+05 .2338269E+06 .3030396E+05
-.1558846E+04 .7794229E+05-.2916000E+06 .5361000E+00
CASE NUMBER 243          GROUP NUMBER 2
.0. 0. -.5000000E+020. 0. 0. 0. .3048625E+04
.2626129E+000. .2500000E+040. .5832000E+04 .4727032E+01 .7621562E+07-.1313064E+02
.0. 0. .1800000E+020. 0. -.1524313E+060. 0.
.0. -.2916000E+06 .3532000E+00
CASE NUMBER 244          GROUP NUMBER 2
.3535534E+00-.1767776E+02-.5000000E+02-.3535534E+02 .7071068E+00 .9284767E+01 .1272792E+02 .3048625E+04
.2626129E+00 .63639361E+01-.2500000E+04 .8838835E+03 .5832000E+04 .4727032E+01 .7621562E+07-.1313064E+02
.1856953E+00 .4123847E+04 .1800000E+02 .1077852E+04-.3181981E+03-.1524313E+06 .1590990E+05 .2061923E+04
-.6363951E+03 .3181981E+05-.2916000E+06 .3807000E+00
CASE NUMBER 245          GROUP NUMBER 2
.1000000E+01-.5000000E+02-.5000000E+02 .1000000E+01 .2626129E+00 .1800000E+02 .3048625E+04
.2626129E+00 .1800000E+02 .2500000E+04 .2500000E+04 .5832000E+04 .4727032E+01 .7621562E+07-.1313064E+02
.2626129E+00 .5832000E+04 .1800000E+02 .3048625E+04-.9000000E+03-.1524313E+06 .4500000E+05 .5832000E+04
-.9000000E+03 .4500000E+05-.2916000E+06 .4070000E+00
CASE NUMBER 246          GROUP NUMBER 2
.1837117E+01-.9185587E+02-.5000000E+02-.6123724E+02 .1224745E+01 .4824506E+00 .2204541E+02 .3048625E+04
.2626129E+00 .3306811E+02 .2500000E+04 .4592793E+04 .5832000E+04 .4727032E+01 .7621562E+07-.1313064E+02
.3216338E+00 .7142712E+04 .1800000E+02 .5600682E+04-.1653406E+04-.1524313E+06 .8267028E+05 .1071407E+05
-.1102270E+04 .5511352E+05-.2916000E+06 .4382000E+00
CASE NUMBER 247          GROUP NUMBER 2
.2828427E+01-.1414214E+03-.5000000E+02-.7071068E+02 .1414214E+01 .7427814E+00 .2545584E+02 .3048625E+04
.2626129E+00 .5091169E+02 .2500000E+04 .7071068E+04 .5832000E+04 .4727032E+01 .7621562E+07-.1313064E+02
.3713907E+00 .8247693E+04 .1800000E+02 .8622814E+04-.2545584E+04-.1524313E+06 .1272792E+06 .1649539E+05
-.1272792E+04 .63639361E+05-.2916000E+06 .4759000E+00
CASE NUMBER 248          GROUP NUMBER 2
.3043189E+01-.1521595E+03-.5000000E+02-.7245688E+02 .14491138E+01 .7991806E+00 .2608448E+02 .3048625E+04
.2626129E+00 .5477740E+02 .2500000E+04 .7607973E+04 .5832000E+04 .4727032E+01 .7621562E+07-.1313064E+02
.3805622E+00 .8451371E+04 .1800000E+02 .9277542E+04-.2738870E+04-.1524313E+06 .1369435E+06 .1774788E+05
-.1304224E+04 .6521120E+05-.2916000E+06 .4854000E+00

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FRIDAY, JUL 2, 1976

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TRANSGENERATED
DATA INPUT
CASE NUMBER 249          GROUP NUMBER 2
.3263127E+01-.1631564E+03-.5000000E+02-.7416198E+02 .1483240E+01 .855932E+00 .2669831E+02 .3048625E+04
.2626129E+00 .58736329E+02 .2500000E+04 .8157818E+04 .5832000E+04 .4727032E+01 .7621562E+07-.1313064E+02
.3895178E+00 .8650254E+04 .1800000E+02 .9948052E+04-.2936815E+04-.1524313E+06 .1468407E+06 .1903056E+05
-.1334916E+04 .6674579E+05-.2916000E+06 .4939000E+00
CASE NUMBER 250          GROUP NUMBER 2
.3488123E+01-.1744061E+03-.5000000E+02-.7582875E+02 .1516575E+01 .9162059E+00 .2729835E+02 .3048625E+04
.2626129E+00 .6278621E+02 .2500000E+04 .8720307E+04 .5832000E+04 .4727032E+01 .7621562E+07-.1313064E+02
.3982721E+00 .8844666E+04 .1800000E+02 .1063398E+05-.3139310E+04-.1524313E+06 .1569655E+06 .2034273E+05
-.1364918E+04 .9248588E+05-.2916000E+06 .5022000E+00
CASE NUMBER 251          GROUP NUMBER 2
.3718054E+01-.1859302E+03-.5000000E+02-.7745967E+02 .15491193E+01 .9764114E+00 .2788548E+02 .3048625E+04
.2626129E+00 .6692515E+02 .2500000E+04 .92951160E+04 .5832000E+04 .4727032E+01 .7621562E+07-.1313064E+02
.4058381E+00 .9034896E+04 .1800000E+02 .1133498E+05-.3346258E+04-.1524313E+06 .1673129E+06 .2168375E+05
-.1394274E+04 .6971370E+05-.2916000E+06 .5103000E+00
CASE NUMBER 252          GROUP NUMBER 2
.3952847E+01-.1976424E+03-.5000000E+02-.7905694E+02 .1581139E+01 .1038068E+01 .2846050E+02 .3048625E+04
.2626129E+00 .71115125E+02 .2500000E+04 .9882118E+04 .5832000E+04 .4727032E+01 .7621562E+07-.1313064E+02
.4152274E+00 .9221202E+04 .1800000E+02 .1205075E+05-.3557562E+04-.1524313E+06 .1778781E+06 .2305300E+05
-.1423025E+04 .71115125E+05-.2916000E+06 .5189000E+00
CASE NUMBER 253          GROUP NUMBER 2
.0. 0. 0. 0. 0. 0. .3430000E+03
.3779645E+000. 0. 0. 0. 0. 0. 0.
.0. 0. 1800000E+020. 0. 0. 0. 0.
.0. 0. 0. 2848000E+00. 0. 0. 0.
CASE NUMBER 254          GROUP NUMBER 2
.3535534E+000. 0. 0. 0. 0. 0. 0.
.3779645E+000. 0. 0. 0. 0. 0. 0.
.2672612E+00 .4123847E+04 .1800000E+02 .1212688E+030. 0. 0. 0.
.0. 0. 0. 3048000E+00. 0. 0. 0.
CASE NUMBER 255          GROUP NUMBER 2
.1026905E+010. 0. 0. 0. 0. 0. 0.
.3779645E+000. 1848429E+020. 0. 0. 0. 0. 0.
.3813242E+000. 5883841E+04 .1800000E+02 .3522284E+030. 0. 0. 0.
.0. 0. 0. 3275000E+00. 0. 0. 0.
CASE NUMBER 256          GROUP NUMBER 2
.1877117E+010. 0. 0. 0. 0. 0. 0.
.3779645E+000. 3306811E+020. 0. 0. 0. 0. 0.
.4629100E+00 .7142712E+04 .1800000E+02 .6301312E+030. 0. 0. 0.
.0. 0. 0. 3474000E+00. 0. 0. 0.

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NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	257	GROUP NUMBER	2
.2828427E+010.	0.	0.	.1414214E+01 .1059045E+01 .2545584E+02 .3430000E+03
.3779645E+00 .5091169E+020.	0.	0.	.5832000E+04 .6803361E+010. 0.
.5345225E+00 .8247693E+04 .1800000E+02 .9701505E+030.	0.	0.	0. .1649539E+05
0.	0.	0.	.3734000E+00
CASE NUMBER	258	GROUP NUMBER	2
.3952847E+010.	0.	0.	.1581139E+01 .1494036E+01 .2846050E+02 .3430000E+03
.3779645E+00 .7115125E+020.	0.	0.	.5832000E+04 .6803361E+010. 0.
.5976143E+00 .9221202E+04 .1800000E+02 .1355827E+040.	0.	0.	0. .2305300E+05
0.	0.	0.	.3985000E+00
CASE NUMBER	259	GROUP NUMBER	2
.5186152E+010.	0.	0.	.1732051E+01 .1963961E+01 .3117691E+02 .3430000E+03
.3779645E+00 .9353074E+020.	0.	0.	.5832000E+04 .6803361E+010. 0.
.6546537E+00 .1010132E+05 .1800000E+02 .1782280E+040.	0.	0.	0. .3030396E+05
0.	0.	0.	.4261000E+00
CASE NUMBER	260	GROUP NUMBER	2
.6614829E+010.	0.	0.	.1877181E+01 .2500170E+01 .3378926E+02 .3430000E+03
.3779645E+00 .1190569E+030.	0.	0.	.5832000E+04 .6803361E+010. 0.
.7095078E+00 .1094772E+05 .1800000E+02 .2268886E+040.	0.	0.	0. .3857768E+05
0.	0.	0.	.4579000E+00
CASE NUMBER	261	GROUP NUMBER	2
.8000000E+010.	0.	0.	.2000000E+01 .3023716E+01 .3600000E+02 .3430000E+03
.3779645E+00 .1440000E+030.	0.	0.	.5832000E+04 .6803361E+010. 0.
.7559289E+00 .1166400E+05 .1800000E+02 .2744000E+040.	0.	0.	0. .4665600E+05
0.	0.	0.	.4896000E+00
CASE NUMBER	262	GROUP NUMBER	2
.8301867E+010.	0.	0.	.2024846E+01 .3137811E+01 .3644722E+02 .3430000E+03
.3779645E+00 .1494336E+030.	0.	0.	.5832000E+04 .6803361E+010. 0.
.7653197E+00 .1180890E+05 .1800000E+02 .2847540E+040.	0.	0.	0. .4841649E+05
0.	0.	0.	.4965000E+00
CASE NUMBER	263	GROUP NUMBER	2
0.	0.	0.	0. 0. .7290000E+03
.3333333E+000.	0.	0.	.5832000E+04 .6000000E+010. 0.
0.	0.	0.	.1800000E+020. 0. 0. 0.
0.	0.	0.	.2948000E+00
CASE NUMBER	264	GROUP NUMBER	2
.3535534E+000.	0.	0.	.7071058E+00 .1178511E+00 .1272792E+02 .7290000E+03
.3333333E+000. .6363961E+010.	0.	0.	.5832000E+04 .6000000E+010. 0.
.2357023E+00 .4123847E+04 .1800000E+02 .2577404E+030.	0.	0.	0. .2061923E+04
0.	0.	0.	.3197000E+00

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	265	GROUP NUMBER	2
.1000000E+010.	0.	0.	.1000000E+01 .3333333E+00 .1800000E+02 .7290000E+03
.3333333E+00 .1800000E+020.	0.	0.	.5832000E+04 .6000000E+010. 0.
.3333333E+00 .5832000E+04 .1800000E+02 .7290000E+030.	0.	0.	0. .5832000E+04
0.	0.	0.	.3445000E+00
CASE NUMBER	266	GROUP NUMBER	2
.1837117E+010.	0.	0.	.1224745E+01 .6123724E+00 .2204541E+02 .7290000E+03
.3333333E+00 .3306811E+020.	0.	0.	.5832000E+04 .6000000E+010. 0.
.4082483E+00 .7142712E+04 .1800000E+02 .1339259E+040.	0.	0.	0. .1071407E+05
0.	0.	0.	.3664000E+00
CASE NUMBER	267	GROUP NUMBER	2
.2828427E+010.	0.	0.	.1414214E+01 .9428090E+00 .2545584E+02 .7290000E+03
.3333333E+00 .5091169E+020.	0.	0.	.5832000E+04 .6000000E+010. 0.
.4714045E+00 .8247693E+04 .1800000E+02 .2061923E+040.	0.	0.	0. .1649539E+05
0.	0.	0.	.3913000E+00
CASE NUMBER	268	GROUP NUMBER	2
.3952847E+010.	0.	0.	.1581139E+01 .1317616E+01 .2846050E+02 .7290000E+03
.3333333E+00 .7115125E+020.	0.	0.	.5832000E+04 .6000000E+010. 0.
.5270463E+00 .9221202E+04 .1800000E+02 .2881625E+040.	0.	0.	0. .2305300E+05
0.	0.	0.	.4213000E+00
CASE NUMBER	269	GROUP NUMBER	2
.5196152E+010.	0.	0.	.1732051E+01 .1732051E+01 .3117691E+02 .7290000E+03
.3333333E+00 .9353074E+020.	0.	0.	.5832000E+04 .6000000E+010. 0.
.5773503E+00 .1010132E+05 .1800000E+02 .3787995E+040.	0.	0.	0. .3030396E+05
0.	0.	0.	.4521000E+00
CASE NUMBER	270	GROUP NUMBER	2
.6547900E+010.	0.	0.	.1870829E+01 .2182633E+01 .3367492E+02 .7290000E+03
.3333333E+00 .1178622E+030.	0.	0.	.5832000E+04 .6000000E+010. 0.
.6236096E+00 .1091067E+05 .1800000E+02 .4773419E+040.	0.	0.	0. .3818736E+05
0.	0.	0.	.4912000E+00
CASE NUMBER	271	GROUP NUMBER	2
.6830520E+010.	0.	0.	.1897367E+01 .2275840E+01 .3415260E+02 .7290000E+03
.3333333E+00 .1229494E+030.	0.	0.	.5832000E+04 .6000000E+010. 0.
.6324555E+00 .1106544E+05 .1800000E+02 .4979449E+040.	0.	0.	0. .3983559E+05
0.	0.	0.	.4981000E+00
CASE NUMBER	272	GROUP NUMBER	2
0.	0.	0.	0. 0. .1000000E+04
.3162278E+000.	0.	0.	.5832000E+04 .5692100E+010. 0.
0.	0.	0.	.1800000E+020. 0. 0. 0.
0.	0.	0.	.3015000E+00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT
CASE NUMBER 273 GROUP NUMBER 2
.3535534E+000. 0. 0. .7071068E+00 .1118034E+01 .1272792E+02 .1000000E+04
.3162278E+00 .6363961E+010. 0. .5832000E+04 .5692100E+010. 0.
.2236068E+00 .4123847E+04 .1800000E+02 .3535534E+030. 0. 0. .2061923E+04
0. 0. 0. .3269000E+00
CASE NUMBER 274 GROUP NUMBER 2
.1000000E+010. 0. 0. .1000000E+01 .3162278E+00 .1800000E+02 .1000000E+04
.3162278E+00 .1800000E+020. 0. .5832000E+04 .5692100E+010. 0.
.3162278E+00 .5832000E+04 .1800000E+02 .1000000E+040. 0. 0. .5832000E+04
0. 0. 0. .3505000E+00
CASE NUMBER 275 GROUP NUMBER 2
.1837117E+010. 0. 0. .1224745E+01 .5809475E+00 .2204541E+02 .1000000E+04
.3162278E+00 .33065811E+020. 0. .5832000E+04 .5692100E+010. 0.
.3872983E+00 .7142712E+04 .1800000E+02 .1837117E+040. 0. 0. .1071407E+05
0. 0. 0. .3736000E+00
CASE NUMBER 276 GROUP NUMBER 2
.2828427E+010. 0. 0. .1414214E+01 .8944272E+00 .2545584E+02 .1000000E+04
.3162278E+00 .5091169E+020. 0. .5832000E+04 .5692100E+010. 0.
.4472136E+00 .8247693E+04 .1800000E+02 .2828427E+040. 0. 0. .1649539E+05
0. 0. 0. .4019000E+00
CASE NUMBER 277 GROUP NUMBER 2
.3952847E+010. 0. 0. .1581139E+01 .1250000E+01 .2846050E+02 .1000000E+04
.3162278E+00 .7115125E+020. 0. .5832000E+04 .5692100E+010. 0.
.5000000E+00 .9221202E+04 .1806000E+02 .3952847E+040. 0. 0. .2305300E+05
0. 0. 0. .4310000E+00
CASE NUMBER 278 GROUP NUMBER 2
.5196152E+010. 0. 0. .1732051E+01 .1643158E+01 .3117691E+02 .1000000E+04
.3162278E+00 .9353074E+020. 0. .5832000E+04 .5692100E+010. 0.
.5477226E+00 .1010132E+05 .1800000E+02 .5196152E+040. 0. 0. .3030396E+05
0. 0. 0. .4652000E+00
CASE NUMBER 279 GROUP NUMBER 2
.5458113E+010. 0. 0. .1760682E+01 .1726007E+01 .3169227E+02 .1000000E+04
.3162278E+00 .9824604E+020. 0. .5832000E+04 .5692100E+010. 0.
.5567764E+00 .1026830E+05 .1800000E+02 .5458113E+040. 0. 0. .3183172E+05
0. 0. 0. .4732000E+00
CASE NUMBER 280 GROUP NUMBER 2
.5724334E+010. 0. 0. .1788854E+01 .1810193E+01 .3219938E+02 .1000000E+04
.3162278E+00 .1030380E+030. 0. .5832000E+04 .5692100E+010. 0.
.5656854E+00 .1043260E+05 .1800000E+02 .5724334E+040. 0. 0. .3338432E+05
0. 0. 0. .4816000E+00

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT
CASE NUMBER 281 GROUP NUMBER 2
.59944748E+010. 0. 0. .1816590E+01 .1895706E+01 .3269862E+02 .1000000E+04
.3162278E+00 .1079055E+030. 0. .5832000E+04 .5692100E+010. 0.
.5744563E+00 .1059435E+05 .1800000E+02 .5994748E+040. 0. 0. .3496137E+05
0. 0. 0. .4901000E+00
CASE NUMBER 282 GROUP NUMBER 2
0. 0. 0. 0. 0. 0. .1728000E+04
.2886751E+000. 0. 0. .5832000E+04 .5196152E+010. 0.
0. 0. 1800000E+020. 0. 0. 0. 0.
0. 0. 0. .3116000E+00
CASE NUMBER 283 GROUP NUMBER 2
.3535534E+000. 0. 0. .7071068E+00 .1020621E+00 .1272792E+02 .1728000E+04
.2886751E+00 .6363961E+010. 0. .5832000E+04 .5196152E+010. 0.
.2041241E+00 .4123847E+04 .1800000E+02 .6109403E+030. 0. 0. .2061923E+04
0. 0. 0. .3365000E+00
CASE NUMBER 284 GROUP NUMBER 2
.1000000E+010. 0. 0. .1000000E+01 .2886751E+00 .1800000E+02 .1728000E+04
.2886751E+00 .1800000E+020. 0. .5832000E+04 .5196152E+010. 0.
.2886751E+00 .5832000E+04 .1800000E+02 .1728000E+040. 0. 0. .5832000E+04
0. 0. 0. .3633000E+00
CASE NUMBER 285 GROUP NUMBER 2
.1837117E+010. 0. 0. .1224745E+01 .5303301E+00 .2204541E+02 .1728000E+04
.2886751E+00 .3306811E+020. 0. .5832000E+04 .5196152E+010. 0.
.3535534E+00 .7142712E+04 .1800000E+02 .3174539E+040. 0. 0. .1071407E+05
0. 0. 0. .3909000E+00
CASE NUMBER 286 GROUP NUMBER 2
.2828427E+010. 0. 0. .1414214E+01 .8164966E+00 .2545584E+02 .1728000E+04
.2886751E+00 .5091169E+020. 0. .5832000E+04 .5196152E+010. 0.
.4082483E+00 .8247693E+04 .1800000E+02 .4887522E+040. 0. 0. .1649539E+05
0. 0. 0. .4195000E+00
CASE NUMBER 287 GROUP NUMBER 2
.3952847E+010. 0. 0. .1581139E+01 .1141089E+01 .2846050E+02 .1728000E+04
.2886751E+00 .7115125E+020. 0. .5832000E+04 .5196152E+010. 0.
.4564355E+00 .9221202E+04 .1800000E+02 .6830520E+040. 0. 0. .2305300E+05
0. 0. 0. .4522000E+00
CASE NUMBER 288 GROUP NUMBER 2
.4192374E+010. 0. 0. .1612452E+01 .1210234E+01 .2902413E+02 .1728000E+04
.2886751E+00 .7546273E+020. 0. .5832000E+04 .5196152E+010. 0.
.4654747E+00 .9403817E+04 .1800000E+02 .7244422E+040. 0. 0. .2444993E+05
0. 0. 0. .4597000E+00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	289	GROUP NUMBER	2			
.4426553E+010.	0.	.1643168E+01	.1280722E+01	.2957702E+02	.1728000E+04	
.2886751E+00	.7985795E+020.	0.	.5832000E+04	.5196152E+010.	0.	
.4743416E+00	.9582954E+04	.1800000E+02	.7666363E+040.	0.	.2587398E+05	
0.	0.	.4676000E+00				
CASE NUMBER	290	GROUP NUMBER	2			
.4685296E+010.	0.	0.	.1673320E+01	.1352528E+01	.3011976E+02	.1728000E+04
.2886751E+00	.8433533E+020.	0.	.5832000E+04	.5196152E+010.	0.	
.4830459E+00	.9758803E+04	.1800000E+02	.8096192E+040.	0.	.2732465E+05	
0.	0.	.4760000E+00				
CASE NUMBER	291	GROUP NUMBER	2			
0.	0.	0.	0.	0.	.3048625E+04	
.2626129E+000.	0.	0.	.5832000E+04	.4727032E+010.	0.	
0.	0.	.1800000E+020.	0.	0.	0.	
0.	0.	.3263000E+00				
CASE NUMBER	292	GROUP NUMBER	2			
.3535534E+000.	0.	0.	.7071068E+00	.9284767E+01	.1272792E+02	.3048625E+04
.2626129E+00	.8363961E+010.	0.	.5832000E+04	.4727032E+010.	0.	
.1856953E+00	.4123847E+04	.1800000E+02	.1077852E+040.	0.	.2061923E+04	
0.	0.	.3533000E+00				
CASE NUMBER	293	GROUP NUMBER	2			
.1000000E+010.	0.	0.	.1000000E+01	.2626129E+00	.1800000E+02	.3048625E+04
.2626129E+00	.1800000E+020.	0.	.5832000E+04	.4727032E+010.	0.	
.2626129E+00	.5832000E+04	.1800000E+02	.3048625E+040.	0.	.5832000E+04	
0.	0.	.3810000E+00				
CASE NUMBER	294	GROUP NUMBER	2			
.1837117E+010.	0.	0.	.1224745E+01	.4824506E+00	.2204541E+02	.3048625E+04
.2626129E+00	.3306811E+020.	0.	.5832000E+04	.4727032E+010.	0.	
.3216338E+00	.7142712E+04	.1800000E+02	.5600682E+040.	0.	.1071407E+05	
0.	0.	.4100000E+00				
CASE NUMBER	295	GROUP NUMBER	2			
.2828427E+010.	0.	0.	.1414214E+01	.7427814E+00	.2545584E+02	.3048625E+04
.2626129E+00	.50911169E+020.	0.	.5832000E+04	.4727032E+010.	0.	
.3713907E+00	.8247693E+04	.1800000E+02	.8622814E+040.	0.	.1649539E+05	
0.	0.	.4418000E+00				
CASE NUMBER	296	GROUP NUMBER	2			
.3043189E+010.	0.	0.	.1449138E+01	.7991806E+00	.2608448E+02	.3048625E+04
.2626129E+00	.5477740E+020.	0.	.5832000E+04	.4727032E+010.	0.	
.3805622E+00	.8451371E+04	.1800000E+02	.9277542E+040.	0.	.1774788E+05	
0.	0.	.4490000E+00				

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	297	GROUP NUMBER	2				
.3263127E+010.	0.	0.	.1483240E+01	.8569392E+00	.2669831E+02	.3048625E+04	
.2626129E+00	.5873629E+020.	0.	.5832000E+04	.4727032E+010.	0.		
.3895178E+00	.8650254E+04	.1800000E+02	.9948052E+040.	0.	.1903056E+05		
0.	0.	.4565000E+00					
CASE NUMBER	298	GROUP NUMBER	2				
0.	0.	.1000000E+030.	0.	0.	.3430000E+03		
.3779645E+000.	0.	.1000000E+050.	.5832000E+04	.6803361E+01	.3430000E+07		
0.	0.	.1800000E+020.	0.	.3430000E+050.	0.		
0.	0.	.5832000E+06	.2613000E+00				
CASE NUMBER	299	GROUP NUMBER	2				
.3535534E+000	.3535534E+02	.1000000E+03	.7071068E+02	.1336306E+00	.1272792E+02	.3430000E+03	
.3779645E+000	.6363961E+01	.1000000E+05	.3535534E+04	.5832000E+04	.6803361E+01	.3430000E+07	
.2672612E+00	.4123847E+04	.1800000E+02	.1212688E+03	.6363961E+03	.3430000E+05	.6363961E+05	
.1272792E+04	.1272792E+06	.5832000E+06	.2780000E+00		.2061923E+04		
CASE NUMBER	300	GROUP NUMBER	2				
.1000000E+01	.1000000E+03	.1000000E+03	.1000000E+03	.1000000E+01	.3779645E+00	.1800000E+02	.3430000E+03
.3779645E+00	.1800000E+02	.1000000E+05	.1000000E+05	.5832000E+04	.6803361E+01	.3430000E+07	
.3779645E+00	.5832000E+04	.1800000E+02	.3430000E+03	.1800000E+04	.3430000E+05	.1800000E+06	.5832000E+04
.1800000E+04	.1800000E+06	.5832000E+06	.2955000E+00				
CASE NUMBER	301	GROUP NUMBER	2				
.1837117E+01	.1837117E+03	.1000000E+03	.1224745E+03	.1224745E+01	.6943651E+00	.2204541E+02	.3430000E+03
.3779645E+00	.3306811E+02	.1000000E+05	.1837117E+05	.5832000E+04	.6803361E+01	.3430000E+07	
.4629100E+00	.7142712E+04	.1800000E+02	.6301312E+03	.3306811E+04	.3430000E+05	.3306811E+06	.1071407E+05
.2204541E+04	.2204541E+06	.5832000E+06	.3128000E+00				
CASE NUMBER	302	GROUP NUMBER	2				
.2828427E+01	.2828427E+03	.1000000E+03	.1414214E+03	.1414214E+01	.1069045E+01	.2545584E+02	.3430000E+03
.3779645E+00	.50911169E+02	.1000000E+05	.2828427E+05	.5832000E+04	.6803361E+01	.3430000E+07	
.5345225E+00	.8247693E+04	.1800000E+02	.9701505E+03	.50911169E+04	.3430000E+05	.50911169E+06	.1649539E+05
.2545584E+04	.2545584E+06	.5832000E+06	.3331000E+00				
CASE NUMBER	303	GROUP NUMBER	2				
.3952847E+01	.3952847E+03	.1000000E+03	.1581139E+03	.1581139E+01	.1494036E+01	.2846050E+02	.3430000E+03
.3779645E+00	.7115125E+02	.1000000E+05	.3252847E+05	.5832000E+04	.6803361E+01	.3430000E+07	
.5976143E+00	.9221202E+04	.1800000E+02	.1355827E+04	.7115125E+04	.3430000E+05	.7115125E+06	.2305300E+05
.2846050E+04	.2846050E+06	.5832000E+06	.3547000E+00				
CASE NUMBER	304	GROUP NUMBER	2				
.5196152E+01	.5196152E+03	.1000000E+03	.1732051E+03	.1732051E+01	.1963961E+01	.3117681E+02	.3430000E+03
.3779645E+00	.9353074E+02	.1000000E+05	.5196152E+05	.5832000E+04	.6803361E+01	.3430000E+07	
.6546537E+00	.1010132E+05	.1800000E+02	.1782280E+04	.9353074E+04	.3430000E+05	.9353074E+06	.3030396E+05
.3117691E+04	.3117691E+06	.5832000E+06	.3806000E+00				

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	GROUP NUMBER	2
.6547900E+01 .6547900E+03 .1000000E+03 .1870829E+03 .1870829E+01 .2474874E+01 .3367492E+02 .3430000E+03		
.3779645E+00 .1178622E+03 .1000000E+05 .6547900E+05 .5832000E+04 .6803361E+01 .3430000E+07 .3779645E+02		
.7071058E+00 .1091057E+05 .1800000E+02 .2245930E+04 .1178622E+05 .3430000E+05 .1178622E+07 .3818736E+05		
.3367492E+04 .3367492E+06 .5832000E+06 .4117000E+00		
CASE NUMBER	GROUP NUMBER	2
.6830520E+01 .6830520E+03 .1000000E+03 .1897367E+03 .1897367E+01 .2581694E+01 .3415260E+02 .3430000E+03		
.3779645E+00 .1229454E+03 .1000000E+05 .6830520E+05 .5832000E+04 .6803361E+01 .3430000E+07 .3779645E+02		
.7171372E+00 .1106544E+05 .1800000E+02 .2342868E+04 .1229454E+05 .3430000E+05 .1229454E+07 .3983559E+05		
.3415260E+04 .3415260E+06 .5832000E+06 .4171000E+00		
CASE NUMBER	GROUP NUMBER	2
.7117092E+01 .7117092E+03 .1000000E+03 .1923538E+03 .1923538E+01 .2690000E+01 .3462369E+02 .3430000E+03		
.3779645E+00 .1231077E+00 .1000000E+05 .7117092E+05 .5832000E+04 .6803361E+01 .3430000E+07 .3779645E+02		
.7270292E+00 .1121808E+05 .1800000E+02 .2441163E+04 .1281077E+05 .3430000E+05 .1281077E+07 .4150688E+05		
.3462369E+04 .3462369E+06 .5832000E+06 .4230000E+00		
CASE NUMBER	GROUP NUMBER	2
.7407564E+01 .7407564E+03 .1000000E+03 .1949359E+03 .1949359E+01 .2799796E+01 .3508846E+02 .3430000E+03		
.3779645E+00 .1333361E+03 .1000000E+05 .7407564E+05 .5832000E+04 .6803361E+01 .3430000E+07 .3779645E+02		
.7367884E+00 .1136866E+05 .1800000E+02 .25401794E+04 .1333361E+05 .3430000E+05 .1333361E+07 .4320091E+05		
.3508846E+04 .3508846E+06 .5832000E+06 .4292000E+00		
CASE NUMBER	GROUP NUMBER	2
.7701883E+01 .7701883E+03 .1000000E+03 .1974842E+03 .1974842E+01 .2911038E+01 .3554715E+02 .3430000E+03		
.3779645E+00 .1386339E+03 .1000000E+05 .7701883E+05 .5832000E+04 .6803361E+01 .3430000E+07 .3779645E+02		
.7464200E+00 .1151728E+05 .1800000E+02 .2641746E+04 .1386339E+05 .3430000E+05 .1386339E+07 .4491731E+05		
.3554715E+04 .3554715E+06 .5832000E+06 .4356000E+00		
CASE NUMBER	GROUP NUMBER	2
0. 0. .1000000E+030. 0. 0. 0. .7290000E+03		
.3333333E+000. .1000000E+050. 0. 5832000E+04 .6000000E+01 .7290000E+07 .3333333E+02		
0. 0. .1800000E+020. 0. 0. 7290000E+050. 0.		
0. 0. .5832000E+06 .2711000E+00		
CASE NUMBER	GROUP NUMBER	2
.3535534E+00 .3535534E+02 .1000000E+03 .7071068E+02 .7071068E+00 .1178511E+00 .1272792E+02 .7290000E+03		
.3333333E+00 .6363961E+01 .1000000E+05 .3535534E+04 .5832000E+04 .6000000E+01 .7290000E+07 .3333333E+02		
.2357023E+00 .4123847E+04 .1800000E+02 .2577404E+03 .6363961E+03 .7290000E+05 .6363961E+05 .2061923E+04		
.1272792E+04 .1272792E+06 .5832000E+06 .2892000E+00		
CASE NUMBER	GROUP NUMBER	2
.1000000E+01 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .3333333E+00 .1800000E+02 .7290000E+03		
.3333333E+00 .1800000E+02 .1000000E+05 .1000000E+05 .5832000E+04 .6000000E+01 .7290000E+07 .3333333E+02		
.3333333E+00 .5832000E+04 .1800000E+02 .7290000E+03 .1800000E+04 .7290000E+05 .1800000E+06 .5832000E+04		
.1800000E+04 .1800000E+06 .5832000E+06 .3076000E+00		

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	GROUP NUMBER	2
313		
.1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+00 .6123724E+00 .2204541E+02 .7290000E+03		
.3333333E+00 .3306811E+02 .1000000E+05 .1837117E+05 .5832000E+04 .6000000E+01 .7290000E+07 .3333333E+02		
.4082483E+00 .7142712E+04 .1800000E+02 .1329259E+04 .3306811E+04 .7290000E+05 .3306811E+06 .1071407E+05		
.2204541E+04 .2204541E+06 .5832000E+06 .3278000E+00		
314	GROUP NUMBER	2
.2828427E+01 .2828427E+03 .1000000E+03 .1414214E+03 .1414214E+00 .9428090E+00 .2545584E+02 .7290000E+03		
.3333333E+00 .5091169E+02 .1000000E+05 .2828427E+05 .5832000E+04 .6000000E+01 .7290000E+07 .3333333E+02		
.4714045E+00 .8247693E+04 .1800000E+02 .2061923E+04 .5091169E+04 .7290000E+05 .5091169E+06 .1649539E+05		
.2545584E+04 .2545584E+06 .5832000E+06 .3501000E+00		
315	GROUP NUMBER	2
.3952847E+01 .3952847E+03 .1000000E+03 .1581139E+03 .1581139E+00 .1317615E+01 .2846050E+02 .7290000E+03		
.3333333E+00 .7115125E+02 .1000000E+05 .3952847E+05 .5832000E+04 .6000000E+01 .7290000E+07 .3333333E+02		
.5270463E+00 .9221202E+04 .1800000E+02 .2881626E+04 .7115125E+04 .7290000E+05 .7115125E+06 .2305300E+05		
.2846050E+04 .2846050E+06 .5832000E+06 .3753000E+00		
316	GROUP NUMBER	2
.5196152E+01 .5196152E+03 .1000000E+03 .1732051E+03 .1732051E+00 .1732051E+01 .3117691E+02 .7290000E+03		
.3333333E+00 .9353074E+02 .1000000E+05 .5196152E+05 .5832000E+04 .6000000E+01 .7290000E+07 .3333333E+02		
.5773503E+00 .1010132E+05 .1800000E+02 .3787995E+04 .9353074E+04 .7290000E+05 .9353074E+06 .3030396E+05		
.3117691E+04 .3117691E+06 .5832000E+06 .4072000E+00		
317	GROUP NUMBER	2
.5458113E+01 .5458113E+03 .1000000E+03 .1760682E+03 .1760682E+00 .1819371E+01 .3169227E+02 .7290000E+03		
.3333333E+00 .9824604E+02 .1000000E+05 .5458113E+05 .5832000E+04 .6000000E+01 .7290000E+07 .3333333E+02		
.5868939E+00 .1026830E+05 .1800000E+02 .3978965E+04 .9824604E+04 .7290000E+05 .9824604E+06 .3183172E+05		
.3169227E+04 .3169227E+06 .5832000E+06 .4139000E+00		
318	GROUP NUMBER	2
.5724334E+01 .5724334E+03 .1000000E+03 .1788854E+03 .1788854E+00 .1908111E+01 .3219938E+02 .7290000E+03		
.3333333E+00 .5724334E+05 .1000000E+05 .5724334E+05 .5832000E+04 .6000000E+01 .7290000E+07 .3333333E+02		
.5962848E+00 .1043260E+05 .1800000E+02 .4173040E+04 .1030380E+05 .7290000E+05 .1030380E+07 .3338432E+05		
.3219938E+04 .3219938E+06 .5832000E+06 .4212000E+00		
319	GROUP NUMBER	2
.5994748E+01 .5994748E+03 .1000000E+03 .1816590E+03 .1816590E+00 .1998249E+01 .3269862E+02 .7290000E+03		
.3333333E+00 .1079055E+03 .1000000E+05 .5994748E+05 .5832000E+04 .6000000E+01 .7290000E+07 .3333333E+02		
.6055301E+00 .1059435E+05 .1800000E+02 .4370171E+04 .1079055E+05 .7290000E+05 .1079055E+07 .3496137E+05		
.3269862E+04 .3269862E+06 .5832000E+06 .4284000E+00		
320	GROUP NUMBER	2
0. 0. .1000000E+030. 0. 0. 0. .1000000E+04		
.3162278E+000. .1000000E+050. 0. 5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02		
0. 0. .1800000E+020. 0. 0. 1000000E+060. 0.		
0. 0. .5832000E+06 .2745000E+00		

NADC-77036-30

FRIDAY, JUL 2, 1976

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TRANSGENERATED
DATA INPUT

CASE NUMBER    321          GROUP NUMBER    2
.3535534E+00 .3535534E+02 .1000000E+03 .7071068E+02 .7071068E+00 .1118034E+00 .1272792E+02 .1000000E+04
.3162278E+00 .63639361E+01 .1000000E+05 .3535534E+04 .5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
.2236068E+00 .1423847E+04 .1800000E+02 .3535534E+03 .63639361E+03 .1000000E+06 .63639361E+05 .2061923E+04
.1272792E+04 .1272792E+06 .5832000E+06 .2956000E+00

CASE NUMBER    322          GROUP NUMBER    2
.1000000E+01 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .3162278E+00 .1800000E+02 .1000000E+04
.3162278E+00 .1800000E+02 .1000000E+05 .1000000E+05 .5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
.3162278E+00 .5832000E+04 .1800000E+02 .1000000E+04 .1800000E+04 .1000000E+06 .1800000E+06 .5832000E+04
.1800000E+04 .1800000E+06 .5832000E+06 .3141000E+00

CASE NUMBER    323          GROUP NUMBER    2
.1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+01 .58939475E+00 .2204541E+02 .1000000E+04
.3162278E+00 .3306811E+02 .1000000E+05 .1837117E+05 .5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
.3872983E+00 .7142712E+04 .1800000E+02 .1837117E+04 .3306811E+04 .1000000E+06 .3306811E+06 .1071407E+05
.2204541E+04 .2204541E+06 .5832000E+06 .3351000E+00

CASE NUMBER    324          GROUP NUMBER    2
.2828427E+01 .2828427E+03 .1000000E+03 .1414214E+03 .1414214E+01 .8944272E+00 .2545584E+02 .1000000E+04
.3162278E+00 .5091169E+02 .1000000E+05 .2828427E+05 .5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
.4472136E+00 .8247693E+04 .1800000E+02 .2828427E+04 .5091169E+04 .1000000E+06 .5091169E+06 .1649339E+05
.2545584E+04 .2545584E+06 .5832000E+06 .3590000E+00

CASE NUMBER    325          GROUP NUMBER    2
.3952847E+01 .3952847E+03 .1000000E+03 .1581139E+03 .1581139E+01 .1250000E+01 .2846050E+02 .1000000E+04
.3162278E+00 .71115125E+02 .1000000E+05 .3952847E+05 .5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
.5000000E+00 .9221202E+04 .1800000E+02 .3952847E+04 .71115125E+04 .1000000E+06 .71115125E+06 .2305300E+05
.2846050E+04 .2846050E+06 .5832000E+06 .3874000E+00

CASE NUMBER    326          GROUP NUMBER    2
.4192374E+01 .4192374E+03 .1000000E+03 .1612452E+03 .1612452E+01 .1325745E+01 .2902413E+02 .1000000E+04
.3162278E+00 .7546273E+02 .1000000E+05 .4192374E+05 .5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
.5099020E+00 .9403817E+04 .1800000E+02 .4192374E+04 .7546273E+04 .1000000E+06 .7546273E+06 .2444993E+05
.2902413E+04 .2902413E+06 .5832000E+06 .3936000E+00

CASE NUMBER    327          GROUP NUMBER    2
.4436553E+01 .4436553E+03 .1000000E+03 .1643168E+03 .1643168E+01 .1402961E+01 .2957702E+02 .1000000E+04
.3162278E+00 .7985795E+02 .1000000E+05 .4436553E+05 .5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
.5196152E+00 .9582954E+04 .1800000E+02 .4436553E+04 .7985795E+04 .1000000E+06 .7985795E+06 .2587398E+05
.2957702E+04 .2957702E+06 .5832000E+06 .4000000E+00

CASE NUMBER    328          GROUP NUMBER    2
.4685296E+01 .4685296E+03 .1000000E+03 .1673320E+03 .1673320E+01 .1481621E+01 .3011975E+02 .1000000E+04
.3162278E+00 .8433533E+02 .1000000E+05 .4685296E+05 .5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
.5291503E+00 .9758033E+04 .1800000E+02 .4685296E+04 .8433533E+04 .1000000E+06 .8433533E+06 .2732465E+05
.3011975E+04 .3011975E+06 .5832000E+06 .4066000E+00

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FRIDAY, JUL 2, 1976

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TRANSGENERATED
DATA INPUT
CASE NUMBER    329                                     GROUP NUMBER    2
.4938522E+01 .4938522E+03 .1000000E+03 .1702939E+03 .1702939E+01 .1561659E+01 .3065290E+02 .1000000E+04
.3162279E+00 .8889340E+02 .1000000E+05 .4938522E+05 .5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
.5385165E+00 .9931538E+04 .1800000E+02 .4938522E+04 .8889340E+04 .1000000E+06 .8889340E+06 .2880146E+05
.3065290E+04 .3065290E+06 .5832000E+06 .4135000E+00

CASE NUMBER    330                                     GROUP NUMBER    2
.5196152E+01 .5196152E+03 .1000000E+03 .1732051E+03 .1732051E+01 .1643168E+01 .3117691E+02 .1000000E+04
.3162278E+00 .9353074E+02 .1000000E+05 .5196152E+05 .5832000E+04 .5692100E+01 .1000000E+08 .3162273E+02
.5477226E+00 .1010132E+05 .1800000E+02 .5196152E+04 .9353074E+04 .1000000E+06 .9353074E+06 .3032936E+05
.3117691E+04 .3117691E+06 .5832000E+06 .4205000E+00

CASE NUMBER    331                                     GROUP NUMBER    2
0.          0.          .1000000E+030.          0.          0.          .1728000E+04
.2886751E+000.          .1000000E+050.          .5832000E+04 .5196152E+01 .1728000E+08 .2886751E+02
0.          0.          .1800000E+020.          0.          .1728000E+060.          0.

CASE NUMBER    332                                     GROUP NUMBER    2
.3535534E+00 .3535534E+02 .1000000E+03 .7071068E+02 .7071068E+00 .1020621E+00 .1272792E+02 .1728000E+04
.2886751E+00 .6363956E+01 .1000000E+05 .3535534E+04 .5832000E+04 .5196152E+01 .1728000E+08 .2886751E+02
.2041241E+00 .4123847E+04 .1800000E+02 .6109403E+03 .6363956E+03 .1728000E+06 .6363956E+05 .2061923E+04
.1272792E+04 .1272792E+06 .5832000E+06 .3044000E+00

CASE NUMBER    333                                     GROUP NUMBER    2
.1000000E+01 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .2886751E+00 .1800000E+02 .1728000E+04
.2886751E+00 .1800000E+02 .1000000E+05 .1000000E+05 .5832000E+04 .5196152E+01 .1728000E+08 .2886751E+02
.2886751E+00 .5832000E+04 .1800000E+02 .1728000E+04 .1800000E+04 .1728000E+06 .1800000E+06 .5832000E+04
.1800000E+04 .1800000E+06 .5832000E+06 .3265000E+00

CASE NUMBER    334                                     GROUP NUMBER    2
.1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+01 .5303301E+00 .-2204541E+02 .1728000E+04
.2886751E+00 .3306811E+02 .1000000E+05 .1837117E+05 .5832000E+04 .5196152E+01 .1728000E+08 .2886751E+02
.3535534E+00 .7142121E+04 .1800000E+02 .3174539E+04 .3306811E+04 .1728000E+06 .3306811E+06 .1071407E+05
.2204541E+04 .2204541E+06 .5832000E+06 .3499000E+00

CASE NUMBER    335                                     GROUP NUMBER    2
.2828427E+01 .2828427E+03 .1000000E+03 .1414214E+03 .1414214E+01 .8164956E+00 .2545584E+02 .1728000E+04
.2886751E+00 .5051169E+02 .1000000E+05 .2828427E+05 .5832000E+04 .5196152E+01 .1728000E+08 .2886751E+02
.4082483E+00 .8247653E+04 .1800000E+02 .4887522E+04 .5091169E+04 .1728000E+06 .5091169E+06 .1649539E+05
.2545558E+04 .2545558E+06 .5832000E+06 .3773000E+00

CASE NUMBER    336                                     GROUP NUMBER    2
.3043189E+01 .3043189E+03 .1000000E+03 .1449138E+03 .1449138E+01 .8784930E+00 .2608448E+02 .1728000E+04
.2886751E+00 .5577740E+02 .1000000E+05 .3043189E+05 .5832000E+04 .5196152E+01 .1728000E+08 .2886751E+02
.4183300E+00 .8451371E+04 .1800000E+02 .5258631E+04 .5477740E+04 .1728000E+06 .5477740E+06 .1774788E+05
.2608448E+00 .2608448E+06 .5832000E+06 .3833000E+00

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NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	GROUP NUMBER
.3263127E+01 .3263127E+03 .1000000E+03 .1483240E+03 .1483240E+01 .9419837E+00 .2669831E+02 .1728000E+04	2
.2886751E+00 .5873629E+02 .1000000E+05 .3263127E+05 .5832000E+04 .5196152E+01 .1728000E+08 .2886751E+02	
.4281744E+00 .8650254E+04 .1800000E+02 .5638634E+04 .5873629E+04 .1728000E+06 .5873629E+06 .1903056E+05	
.2669831E+04 .2669831E+06 .5832000E+06 .3895000E+00	
CASE NUMBER	GROUP NUMBER
.3488123E+01 .3488123E+03 .1000000E+03 .1516575E+03 .1516575E+01 .1006934E+01 .2729835E+02 .1728000E+04	2
.2886751E+00 .6692515E+02 .1000000E+05 .3488123E+05 .5832000E+04 .5196152E+01 .1728000E+08 .2886751E+02	
.4377975E+00 .8844666E+04 .1800000E+02 .6027476E+04 .6278621E+04 .1728000E+06 .6278621E+06 .2034273E+05	
.2729835E+04 .2729835E+06 .5832000E+06 .3959000E+00	
CASE NUMBER	GROUP NUMBER
.3718064E+01 .3718064E+03 .1000000E+03 .1549193E+03 .1549193E+01 .1073313E+01 .2788548E+02 .1728000E+04	2
.2886751E+00 .3718064E+02 .1000000E+05 .3718064E+05 .5832000E+04 .5196152E+01 .1728000E+08 .2886751E+02	
.4472136E+00 .9034896E+04 .1800000E+02 .6424815E+04 .6692515E+04 .1728000E+06 .6692515E+06 .2168375E+05	
.2788548E+04 .2788548E+06 .5832000E+06 .4095000E+00	
CASE NUMBER	GROUP NUMBER
.3952847E+01 .3952847E+03 .1000000E+03 .1581139E+03 .1581139E+01 .1141089E+01 .2846050E+02 .1728000E+04	2
.2886751E+00 .7115125E+02 .1000000E+05 .3952847E+05 .5832000E+04 .5196152E+01 .1728000E+08 .2886751E+02	
.4564355E+00 .9221202E+04 .1800000E+02 .6830520E+04 .7115125E+04 .1728000E+06 .7115125E+06 .2305300E+05	
.2846050E+04 .2846050E+06 .5832000E+06 .4095000E+00	
CASE NUMBER	GROUP NUMBER
0. 0. .1000000E+030. 0. 0. 0. .3048625E+04	2
.2626129E+000. .1000000E+050. 0. 0. .3048625E+04 .4727032E+01 .3048625E+08 .2626129E+02	
0. 0. .1800000E+020. 0. 0. .3048625E+060. 0. .3048625E+060.	
0. 0. .5832000E+06 .2929000E+00	
CASE NUMBER	GROUP NUMBER
.3535534E+00 .3535534E+02 .1000000E+03 .7071068E+02 .7071068E+00 .9284767E+01 .1272792E+02 .3048625E+04	2
.2626129E+00 .6363961E+01 .1000000E+05 .3535534E+04 .5832000E+04 .4727032E+01 .3048625E+08 .2626129E+02	
.1855953E+00 .4123847E+04 .1800000E+02 .1077852E+04 .6363961E+03 .3048625E+06 .6363961E+05 .2061923E+04	
.1272792E+04 .1272792E+06 .5832000E+06 .3172000E+00	
CASE NUMBER	GROUP NUMBER
.1000000E+01 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .2626129E+00 .1800000E+02 .3048625E+04	2
.2626129E+00 .1800000E+02 .1000000E+05 .1000000E+05 .5832000E+04 .4727032E+01 .3048625E+08 .2626129E+02	
.2626129E+00 .5832000E+04 .1800000E+02 .3048625E+04 .1800000E+04 .3048625E+06 .1800000E+06 .5832000E+04	
.1800000E+04 .1800000E+06 .5832000E+06 .3424000E+00	
CASE NUMBER	GROUP NUMBER
.1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+01 .4824506E+00 .2204541E+02 .3048625E+04	2
.2626129E+00 .3306811E+02 .1000000E+05 .1837117E+05 .5832000E+04 .4727032E+01 .3048625E+08 .2626129E+02	
.3216338E+00 .7142712E+04 .1800000E+02 .560682E+04 .3306811E+04 .3048625E+06 .3306811E+06 .1071407E+05	
.2204541E+04 .2204541E+06 .5832000E+06 .3691000E+00	

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	GROUP NUMBER
CASE NUMBER	GROUP NUMBER
.2023858E+01 .2023858E+03 .1000000E+03 .1264911E+03 .1264911E+01 .5314911E+00 .2276840E+02 .3048625E+04	2
.2626129E+00 .3642944E+02 .1000000E+05 .2023858E+05 .5832000E+04 .4727032E+01 .3048625E+08 .2626129E+02	
.3321819E+00 .7375951E+04 .1800000E+02 .6168983E+04 .3642944E+04 .3048625E+06 .3642944E+06 .1180314E+05	
.2276840E+00 .2276840E+06 .5832000E+06 .3750000E+00	
CASE NUMBER	GROUP NUMBER
.2216529E+01 .2216529E+03 .1000000E+03 .1303840E+03 .1303840E+01 .5820890E+00 .2346913E+02 .3048625E+04	2
.2626129E+00 .3989752E+02 .1000000E+05 .2216529E+05 .5832000E+04 .4727032E+01 .3048625E+08 .2626129E+02	
.3424053E+00 .7603598E+04 .1800000E+02 .5757365E+04 .3989752E+04 .3048625E+06 .3989752E+06 .1292680E+05	
.2346913E+04 .2346913E+06 .5832000E+06 .3811000E+00	
CASE NUMBER	GROUP NUMBER
.2414953E+01 .2414953E+03 .1000000E+03 .1341641E+03 .1341641E+01 .6341978E+00 .2414953E+02 .3048625E+04	2
.2626129E+00 .4346911E+02 .1000000E+05 .1837117E+05 .5832000E+04 .4727032E+01 .3048625E+08 .2626129E+02	
.3523321E+00 .7824494E+04 .1800000E+02 .7362287E+04 .3436911E+04 .3048625E+06 .4346911E+06 .1408401E+05	
.2414953E+04 .2414953E+06 .5832000E+06 .3873000E+00	
CASE NUMBER	GROUP NUMBER
.26118969E+01 .26118969E+03 .1000000E+03 .1378405E+03 .1378405E+01 .6877750E+00 .2481129E+02 .3048625E+04	2
.2626129E+00 .4714145E+02 .1000000E+05 .26118969E+05 .5832000E+04 .4727032E+01 .3048625E+08 .2626129E+02	
.3619869E+00 .8038857E+04 .1800000E+02 .7984255E+04 .4714145E+04 .3048625E+06 .4714145E+06 .1527383E+05	
.2481129E+04 .2481129E+06 .5832000E+06 .3937000E+00	
CASE NUMBER	GROUP NUMBER
0. 0. .2000000E+030. 0. 0. 0. .3430000E+03	2
.3779645E+000. .4000000E+050. 0. 0. .5832000E+04 .6803361E+01 .1372000E+08 .7559289E+02	
0. 0. .1800000E+020. 0. 0. .5860000E+050. 0. .5860000E+050.	
0. 0. .1166400E+07 .2456000E+00	
CASE NUMBER	GROUP NUMBER
.3535534E+00 .7071068E+02 .2000000E+03 .1414214E+03 .7071068E+00 .1336306E+00 .1272792E+02 .3430000E+03	2
.3779645E+00 .6363961E+01 .4000000E+05 .1414214E+05 .5832000E+04 .6803361E+01 .1372000E+08 .7559289E+02	
.2672612E+00 .4123847E+04 .1800000E+02 .1212688E+03 .1272792E+04 .6860000E+05 .2545584E+05 .2061923E+04	
.2545584E+04 .5091169E+06 .1166400E+07 .2555000E+00	
CASE NUMBER	GROUP NUMBER
.1000000E+01 .2000000E+03 .2000000E+03 .2000000E+03 .1000000E+01 .3779645E+00 .1800000E+02 .3430000E+03	2
.3779645E+00 .1800000E+02 .4000000E+05 .4000000E+05 .5832000E+04 .6803361E+01 .1372000E+08 .7559289E+02	
.3779645E+00 .5832000E+04 .1800000E+02 .3430000E+03 .3600000E+04 .6860000E+05 .7200000E+06 .5832000E+04	
.3600000E+04 .7200000E+06 .1166400E+07 .2705000E+00	
CASE NUMBER	GROUP NUMBER
.1837117E+01 .3674235E+03 .2000000E+03 .2449490E+03 .1224745E+01 .6943651E+00 .2204541E+02 .3430000E+03	2
.3779645E+00 .3306811E+02 .4000000E+05 .7348469E+05 .5832000E+04 .6803361E+01 .1372000E+08 .7559289E+02	
.4629100E+00 .7142712E+04 .1800000E+02 .6301312E+03 .6613622E+04 .6860000E+05 .1322724E+07 .1071407E+05	
.4409082E+04 .8818162E+06 .1166400E+07 .2863000E+00	

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	GROUP NUMBER
.2828427E+01 .5656854E+03 .2000000E+03 .2828427E+03 .1414214E+01 .1069045E+01 .2545584E+02 .3430000E+03	2
.3779645E+00 .5091169E+02 .4000000E+05 .1131371E+06 .5832000E+04 .6803361E+01 .1372000E+08 .7559289E+02	
.5345225E+00 .8247693E+04 .1800000E+02 .9701505E+03 .1018234E+05 .6860000E+05 .2036468E+07 .1649539E+05	
.5091169E+04 .1018234E+07 .1166400E+07 .3042000E+00	
CASE NUMBER	354
.3952847E+01 .7905694E+03 .2000000E+03 .3162278E+03 .1581139E+01 .1494036E+01 .2846050E+02 .3430000E+03	2
.3779645E+00 .7115125E+02 .4000000E+05 .1581139E+06 .5832000E+04 .6803361E+01 .1372000E+08 .7559289E+02	
.5976143E+00 .9221202E+04 .1800000E+02 .1355627E+04 .1423025E+05 .6860000E+05 .2846050E+07 .2305300E+05	
.5682100E+04 .1138420E+07 .1166400E+07 .3253000E+00	
CASE NUMBER	355
.5196152E+01 .1039230E+04 .2000000E+03 .3464102E+03 .1732051E+01 .1963961E+01 .3117691E+02 .3430000E+03	2
.3779645E+00 .9353074E+02 .4000000E+05 .2078461E+06 .5832000E+04 .6803361E+01 .1372000E+08 .7559289E+02	
.6546537E+00 .1010132E+05 .1800000E+02 .1782280E+04 .1870615E+05 .6860000E+05 .3741230E+07 .3030396E+05	
.6235333E+04 .1247077E+07 .1166400E+07 .3506000E+00	
CASE NUMBER	356
.6547900E+01 .1209580E+04 .2000000E+03 .3741657E+03 .1870829E+01 .2474874E+01 .3367492E+02 .3430000E+03	2
.3779645E+00 .1178622E+03 .4000000E+05 .2619160E+06 .5832000E+04 .6803361E+01 .1372000E+08 .7559289E+02	
.7071068E+00 .1091057E+05 .1800000E+02 .2245930E+04 .2357244E+05 .6860000E+05 .4714488E+07 .3818736E+05	
.6734933E+04 .1346987E+07 .1166400E+07 .3797000E+00	
CASE NUMBER	357
.6830520E+01 .1386104E+04 .2000000E+03 .3794733E+03 .1897367E+01 .2581694E+01 .3415260E+02 .3430000E+03	2
.3779645E+00 .1229494E+03 .4000000E+05 .2772208E+06 .5832000E+04 .6803361E+01 .1372000E+08 .7559289E+02	
.7171372E+00 .1106544E+05 .1800000E+02 .2242868E+04 .2458987E+05 .6860000E+05 .4917974E+07 .3983559E+05	
.6830520E+04 .1366104E+07 .1166400E+07 .3849000E+00	
CASE NUMBER	358
.7117059E+01 .1423418E+04 .2000000E+03 .3847077E+03 .1923538E+01 .2690008E+01 .3462369E+02 .3430000E+03	2
.3779645E+00 .1281077E+03 .4000000E+05 .2346337E+06 .5832000E+04 .6803361E+01 .1372000E+08 .7559289E+02	
.7270252E+00 .1121808E+05 .1800000E+02 .2441163E+04 .2562153E+05 .6860000E+05 .5124306E+07 .4150688E+05	
.6924738E+04 .1384948E+07 .1166400E+07 .3905000E+00	
CASE NUMBER	359
0. 0. .2000000E+030. 0. 0. 0. .7290000E+03	2
0. .3333333E+000. .4000000E+050. .5832000E+04 .6000000E+01 .2916000E+08 .6666667E+02	
0. 0. .1800000E+020. 0. 0. 0. .1458000E+060. 0.	
0. 0. .1166400E+07 .2521000E+00	
CASE NUMBER	360
.3535534E+00 .7071068E+02 .2000000E+03 .1414214E+03 .7071068E+00 .1178511E+01 .1272792E+02 .7290000E+03	2
.3333333E+00 .6363961E+01 .4000000E+05 .1414214E+05 .5832000E+04 .6000000E+01 .2916000E+08 .6666667E+02	
.2357023E+00 .4123847E+04 .1800000E+02 .2577404E+03 .1272792E+04 .1458000E+06 .2545584E+06 .2061923E+04	
.2545584E+04 .5091169E+06 .1166400E+07 .2651000E+00	

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	GROUP NUMBER
361	2
.1000000E+01 .2000000E+03 .2000000E+03 .2000000E+03 .1000000E+01 .3333333E+00 .1800000E+02 .7290000E+03	
.3333333E+00 .1800000E+02 .4000000E+05 .4000000E+05 .5832000E+04 .6000000E+01 .2916000E+08 .6666667E+02	
.3333333E+00 .5832000E+04 .1800000E+02 .7290000E+03 .3500000E+04 .1458000E+06 .7200000E+06 .5832000E+04	
.3600000E+04 .7200000E+06 .1166400E+07 .2819000E+00	
CASE NUMBER	362
.1837117E+01 .3674235E+03 .2000000E+03 .2449490E+03 .1224745E+01 .6123724E+00 .2204541E+02 .7290000E+03	2
.3333333E+00 .3306811E+02 .4000000E+05 .7348469E+05 .5832000E+04 .6000000E+01 .2916000E+08 .6666667E+02	
.4082483E+00 .7142712E+04 .1800000E+02 .1339259E+04 .6613622E+04 .1458000E+06 .1322724E+07 .1071407E+05	
.4409082E+04 .8818163E+06 .1166400E+07 .3009000E+00	
CASE NUMBER	363
.2828427E+01 .5656854E+03 .2000000E+03 .2828427E+03 .1414214E+01 .9428090E+00 .2545584E+02 .7290000E+03	2
.3333333E+00 .3306811E+02 .4000000E+05 .1131371E+05 .5832000E+04 .6000000E+01 .2916000E+08 .6666667E+02	
.4714045E+00 .8247693E+04 .1800000E+02 .2061923E+04 .1018234E+05 .1458000E+06 .2036468E+07 .1649539E+05	
.5091169E+04 .1018234E+07 .1166400E+07 .3228000E+00	
CASE NUMBER	364
.3952847E+01 .7905694E+03 .2000000E+03 .3162278E+03 .1581139E+01 .1317616E+01 .2846050E+02 .7290000E+03	2
.3333333E+00 .7115125E+02 .4000000E+05 .1581139E+06 .5832000E+04 .6000000E+01 .2916000E+08 .6666667E+02	
.5270463E+00 .9221202E+04 .1800000E+02 .2881626E+04 .1423025E+05 .1458000E+06 .2846050E+07 .2305300E+05	
.5692100E+04 .1138420E+07 .1166400E+07 .3472000E+00	
CASE NUMBER	365
.5196152E+01 .1039230E+04 .2000000E+03 .3464102E+03 .1732051E+01 .1732051E+01 .3117691E+02 .7290000E+03	2
.3333333E+00 .9353074E+02 .4000000E+05 .2078461E+06 .5832000E+04 .6000000E+01 .2916000E+08 .6666667E+02	
.5773503E+00 .1010132E+05 .1800000E+02 .3787995E+04 .1870615E+05 .1458000E+06 .3741230E+07 .3030396E+05	
.6235333E+04 .1247077E+07 .1166400E+07 .3761000E+00	
CASE NUMBER	366
.5458113E+01 .10911623E+04 .2000000E+03 .3521363E+03 .1760682E+01 .1819371E+01 .3169227E+02 .7290000E+03	2
.3333333E+00 .9824604E+02 .4000000E+05 .2183245E+06 .5832000E+04 .6000000E+01 .2916000E+08 .6666667E+02	
.5868939E+00 .1026830E+05 .1800000E+02 .3978965E+04 .1964921E+05 .1458000E+06 .3929842E+07 .3183172E+05	
.6338454E+04 .1267691E+07 .1166400E+07 .3824000E+00	
CASE NUMBER	367
0. 0. .2000000E+030. 0. 0. 0. .1000000E+04	2
0. .3162278E+000. .4000000E+050. .5832000E+04 .5692100E+01 .4000000E+08 .6324555E+02	
0. 0. .1800000E+020. 0. 0. 0. .2000000E+060. 0.	
0. 0. .1166400E+07 .2557000E+00	
CASE NUMBER	368
.3535534E+00 .7071068E+02 .2000000E+03 .1414214E+03 .7071068E+00 .1118034E+01 .1272792E+02 .1000000E+04	2
.3162278E+00 .6363961E+01 .4000000E+05 .1414214E+05 .5832000E+04 .5692100E+01 .4000000E+08 .6324555E+02	
.2236068E+00 .4123847E+04 .1800000E+02 .3535534E+03 .1272792E+04 .2000000E+06 .2545584E+06 .2061923E+04	
.2545584E+04 .5091169E+06 .1166400E+07 .2701000E+00	

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	GROUP NUMBER
.1000000E+01 .2000000E+03 .2000000E+03 .2000000E+03 .1000000E+01 .3162278E+00 .1800000E+02 .1000000E+04	2
.3162278E+00 .1800000E+02 .4000000E+05 .4000000E+05 .5832000E+04 .5692100E+01 .4000000E+08 .6324555E+02	
.3162278E+00 .5832000E+04 .1800000E+02 .1000000E+04 .3600000E+04 .2000000E+06 .7200000E+06 .5832000E+04	
.3600000E+04 .7200000E+06 .1166400E+07 .2881000E+00	
CASE NUMBER	GROUP NUMBER
.1837117E+01 .3574235E+03 .2000000E+03 .2449490E+03 .1224745E+01 .5809475E+00 .2204541E+02 .1000000E+04	2
.3162278E+00 .3306811E+02 .4000000E+05 .7348468E+05 .5832000E+04 .5692100E+01 .4000000E+08 .6324555E+02	
.3872983E+00 .7142712E+04 .1800000E+02 .1837117E+04 .6613622E+04 .2000000E+06 .1322724E+07 .1071407E+05	
.4409082E+04 .8818163E+06 .1166400E+07 .3087000E+00	
CASE NUMBER	GROUP NUMBER
.2828427E+01 .5656854E+03 .2000000E+03 .2828427E+03 .1414214E+01 .8944272E+00 .2545584E+02 .1000000E+04	2
.3162278E+00 .5091169E+00 .4000000E+05 .1131371E+06 .5832000E+04 .5692100E+01 .4000000E+08 .6324555E+02	
.4472136E+00 .8247693E+04 .1800000E+02 .2828427E+04 .1018234E+05 .2000000E+06 .2036468E+07 .1649539E+05	
.5091169E+04 .1018234E+07 .1166400E+07 .3323000E+00	
CASE NUMBER	GROUP NUMBER
.3952847E+01 .7905694E+03 .2000000E+03 .3162278E+03 .1581139E+01 .1250000E+01 .2846050E+02 .1000000E+04	2
.3162278E+00 .7115125E+02 .4000000E+05 .1581139E+06 .5832000E+04 .5692100E+01 .4000000E+08 .6324555E+02	
.5000000E+00 .9221202E+04 .1800000E+02 .3952847E+04 .1423925E+05 .2000000E+06 .2846050E+07 .2305300E+05	
.56892100E+04 .138420E+07 .1166400E+07 .3576000E+00	
CASE NUMBER	GROUP NUMBER
.4192374E+01 .8834748E+03 .2000000E+03 .3224903E+03 .1612452E+01 .1325745E+01 .2902413E+02 .1000000E+04	2
.3162278E+00 .75646273E+02 .4000000E+05 .1676950E+06 .5832000E+04 .5692100E+01 .4000000E+08 .6324555E+02	
.5099020E+00 .9403817E+04 .1800000E+02 .4192374E+04 .1509255E+05 .2000000E+06 .3018509E+07 .2444993E+05	
.5804826E+04 .1160965E+07 .1166400E+07 .3834000E+00	
CASE NUMBER	GROUP NUMBER
.4436553E+01 .8873105E+03 .2000000E+03 .3286335E+03 .1643168E+01 .1402961E+01 .2957702E+02 .1000000E+04	2
.3162278E+00 .79865795E+02 .4000000E+05 .1774821E+06 .5832000E+04 .5692100E+01 .4000000E+08 .6324555E+02	
.5196152E+00 .9582954E+04 .1800000E+02 .4436553E+04 .1597159E+05 .2000000E+06 .3194318E+07 .2587398E+05	
.5915404E+04 .1183081E+07 .1166400E+07 .3894000E+00	
CASE NUMBER	GROUP NUMBER
.4685296E+01 .9370592E+03 .2000000E+03 .3346640E+03 .1673320E+01 .1481621E+01 .3011976E+02 .1000000E+04	2
.3162278E+00 .8433533E+02 .4000000E+05 .1874118E+06 .5832000E+04 .5692100E+01 .4000000E+08 .6324555E+02	
.5291503E+00 .9758803E+04 .1800000E+02 .4685296E+04 .1686707E+05 .2000000E+06 .3373413E+07 .2732465E+05	
.6023952E+04 .1204790E+07 .1166400E+07 .3756000E+00	
CASE NUMBER	GROUP NUMBER
0. 0. .2000000E+030. 0. 0. 0. 1728000E+04	2
.2886751E+000. .4000000E+050. .5832000E+04 .5196152E+01 .6912000E+08 .5773503E+02	
0. 0. .1800000E+020. 0. 0. 3456000E+060. 0.	
0. 0. .1166400E+07 .2634000E+00	

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	GROUP NUMBER
.3535534E+00 .7071068E+02 .2000000E+03 .1414214E+03 .7071068E+00 .1020621E+00 .1272792E+02 .1728000E+04	2
.2886751E+00 .6363961E+01 .4000000E+05 .1414214E+05 .5832000E+04 .5196152E+01 .6912000E+08 .5773503E+02	
.2041241E+00 .4123847E+04 .1800000E+02 .6109403E+03 .1272792E+04 .3456000E+06 .2545584E+06 .2061923E+04	
.2545558E+04 .5091169E+06 .1166400E+07 .2807000E+00	
CASE NUMBER	GROUP NUMBER
.1000000E+01 .2000000E+03 .2000000E+03 .1000000E+01 .2886751E+00 .1800000E+02 .1728000E+04	2
.2886751E+00 .1800000E+02 .4000000E+05 .4000000E+05 .5832000E+04 .5196152E+01 .6912000E+08 .5773503E+02	
.2886751E+00 .5832000E+04 .1800000E+02 .1728000E+04 .3600000E+04 .3456000E+06 .7200000E+06 .5832000E+04	
.3600000E+04 .7200000E+06 .1166400E+07 .3012000E+00	
CASE NUMBER	GROUP NUMBER
.1837117E+01 .3574235E+03 .2000000E+03 .2449490E+03 .1224745E+01 .5303301E+00 .2204541E+02 .1728000E+04	2
.2886751E+00 .3306811E+02 .4000000E+05 .1874118E+06 .5832000E+04 .5196152E+01 .6912000E+08 .5773503E+02	
.3535534E+00 .7142712E+04 .1800000E+02 .31747539E+04 .6613622E+04 .3456000E+06 .1322724E+07 .1071407E+05	
.4409082E+04 .8818163E+06 .1166400E+07 .3238000E+00	
CASE NUMBER	GROUP NUMBER
.2828427E+01 .5656854E+03 .2000000E+03 .2828427E+03 .1414214E+01 .8164966E+00 .2545584E+02 .1728000E+04	2
.2886751E+00 .5091169E+02 .4000000E+05 .1121371E+06 .5832000E+04 .5196152E+01 .6912000E+08 .5773503E+02	
.4082483E+00 .8247693E+04 .1800000E+02 .4887522E+04 .1018234E+05 .3456000E+06 .2036468E+07 .1649539E+05	
.5091169E+04 .1018234E+07 .1166400E+07 .3490000E+00	
CASE NUMBER	GROUP NUMBER
.3261327E+01 .6526255E+03 .2000000E+03 .2966479E+03 .1449138E+01 .8784930E+00 .2608448E+02 .1728000E+04	2
.2886751E+00 .5873529E+02 .4000000E+05 .1305251E+06 .5832000E+04 .5196152E+01 .6912000E+08 .5773503E+02	
.4183300E+00 .8451371E+04 .1800000E+02 .5258631E+04 .1095548E+05 .3456000E+06 .2191096E+07 .1774788E+05	
.5216896E+04 .1043379E+07 .1166400E+07 .3545000E+00	
CASE NUMBER	GROUP NUMBER
0. 0. .2000000E+030. 0. 0. 0. .3048625E+04	2
.2626129E+000. .4000000E+050. .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02	
0. 0. .1800000E+020. 0. 0. 6097250E+060. 0.	
0. 0. .1166400E+07 .2737000E+00	
CASE NUMBER	GROUP NUMBER
.3535534E+00 .7071068E+02 .2000000E+03 .1414214E+03 .7071068E+00 .9284767E+01 .1272792E+02 .3048625E+04	2
.2886751E+00 .6363961E+01 .4000000E+05 .1414214E+05 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02	
.1856953E+00 .4123847E+04 .1800000E+02 .1077852E+04 .1272792E+04 .6097250E+06 .2545584E+06 .2061923E+04	
.2545558E+04 .5091169E+06 .1166400E+07 .2967000E+00	

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT

CASE NUMBER	GROUP NUMBER	2
.1000000E+01 .2000000E+03 .2000000E+03 .2000000E+03 .1000000E+01 .2526129E+00 .1800000E+02 .3048625E+04		
.2626129E+00 .1800000E+02 .4000000E+05 .4000000E+05 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02		
.2626129E+00 .5832000E+04 .1800000E+02 .3048625E+04 .3600000E+04 .6097250E+06 .7200000E+06 .5832000E+04		
.3600000E+04 .7200000E+07 .1166400E+07 .3173000E+00		
CASE NUMBER	GROUP NUMBER	2
.1837117E+01 .3674235E+03 .2000000E+03 .2449490E+03 .1224745E+01 .4824506E+00 .2204541E+02 .3048625E+04		
.2626129E+00 .3306811E+02 .4000000E+05 .7348469E+05 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02		
.3216338E+00 .7142712E+04 .1800000E+02 .5600682E+04 .6613622E+04 .6097250E+06 .1322724E+07 .1071407E+05		
.4409082E+04 .8818163E+06 .1166400E+07 .3419000E+00		
CASE NUMBER	GROUP NUMBER	2
.202385E+01 .4047715E+03 .2000000E+03 .2529822E+03 .1264911E+01 .5314911E+00 .2276840E+02 .3048625E+04		
.2626129E+00 .3642944E+02 .4000000E+05 .8095431E+05 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02		
.3321819E+00 .7376961E+04 .1800000E+02 .6169983E+04 .7285888E+04 .6097250E+06 .1457178E+07 .1180314E+05		
.4553680E+04 .9107360E+06 .1166400E+07 .3475000E+00		
CASE NUMBER	GROUP NUMBER	2
0. 0. -.5000000E+020. 0. 0. 0. .3430000E+03		
.3779645E+000. .2500000E+040. .4665600E+05. .1360672E+02. .8575000E+06-. .1889822E+02		
0. 0. .3600000E+020. 0. -.1715000E+050. 0.		
0. 0. -.2332800E+07. .2938000E+00		
CASE NUMBER	GROUP NUMBER	2
.3535534E+00-. .1767767E+02-. .5000000E+02-. .3535534E+02 .7071068E+00 .1336306E+00 .2545584E+02 .3430000E+03		
.3779645E+00 .1272792E+02 .2500000E+04 .8838835E+03 .4665600E+05 .1360672E+02 .8575000E+06-. .1889822E+02		
.2672612E+00 .3299077E+05 .3600000E+02 .1212688E+03-. .6363961E+03-. .1715000E+05 .3181981E+05 .1649539E+05		
-.1272792E+04 .6363961E+05-. .2332800E+07 .3129000E+00		
CASE NUMBER	GROUP NUMBER	2
.1000000E+01-. .5000000E+02-. .5000000E+02-. .5000000E+02-. .1000000E+01 .3779645E+00 .3600000E+02 .3430000E+03		
.3779645E+00 .3600000E+02 .2500000E+04 .2500000E+04 .4665600E+05 .1360672E+02 .8575000E+06-. .1889822E+02		
.3779645E+00 .4665600E+05 .3600000E+02 .3430000E+03-. .1800000E+04-. .1715000E+05 .9000000E+05 .4665600E+05		
-.1800000E+04 .9000000E+05-. .2332800E+07 .3347000E+00		
CASE NUMBER	GROUP NUMBER	2
.1925290E+01-. .9626448E+02-. .5000000E+02-. .6220167E+02 .1244033E+01 .7276911E+00 .4478520E+02 .3430000E+03		
.3779645E+00 .6931043E+02 .2500000E+04 .4813224E+04 .4665600E+05 .1360672E+02 .8575000E+06-. .1889822E+02		
.4702004E+00 .5804162E+05 .3600000E+02 .603744E+03-. .3465521E+04-. .1715000E+05 .1732761E+06 .8982631E+05		
-.2239260E+04 .1119630E+06-. .2332800E+07 .3605000E+00		
CASE NUMBER	GROUP NUMBER	2
.2828427E+01-. .1414214E+03-. .5000000E+02-. .7071068E+02 .1414214E+01 .1069045E+01 .5091169E+02 .3430000E+03		
.3779645E+00 .1018234E+03 .2500000E+04 .7071068E+04 .4665600E+05 .1360672E+02 .8575000E+06-. .1889822E+02		
.5345225E+00 .6598155E+05 .3600000E+02 .9701505E+03-. .5091169E+04-. .1715000E+05 .2545584E+06 .1319631E+06		
-.2545584E+04 .1272792E+06-. .2332800E+07 .3884000E+00		

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT

CASE NUMBER	GROUP NUMBER	2
.3952847E+01-. .1976424E+03-. .5000000E+02-. .7905694E+02 .1581139E+01 .1454036E+01 .5692100E+02 .3430000E+03		
.3779645E+00 .1423025E+03 .2500000E+04 .9882118E+04 .4665600E+05 .1360672E+02 .8575000E+06-. .1889822E+02		
.5976143E+00 .7376961E+05 .1600000E+02 .1355827E+04-. .7115125E+04-. .1715000E+05 .3557562E+06 .1844240E+06		
-.2246050E+04 .1423025E+06-. .2332800E+07 .4193000E+00		
CASE NUMBER	GROUP NUMBER	2
.5196152E+01-. .2598076E+03-. .5000000E+02-. .8660254E+02 .1732051E+01 .1963961E+01 .6235383E+02 .3430000E+03		
.3779645E+00 .1870615E+03 .2500000E+04 .1299038E+05 .4665600E+05 .1360672E+02 .8575000E+06-. .1889822E+02		
.6546537E+00 .8081056E+05 .3600000E+02 .1782280E+04-. .9353074E+04-. .1715000E+05 .4676537E+06 .2424317E+06		
-.3117691E+04 .1558846E+06-. .2332800E+07 .4488000E+00		
CASE NUMBER	GROUP NUMBER	2
.6547900E+01-. .3273950E+03-. .5000000E+02-. .870829E+01 .1870829E+01 .2474874E+01 .6734983E+02 .3430000E+03		
.3779645E+00 .2357244E+03 .2500000E+04 .1638975E+05 .4665600E+05 .1360672E+02 .8575000E+06-. .1889822E+02		
.7071068E+00 .8728538E+05 .3600000E+02 .2245530E+04-. .1178622E+05-. .1715000E+05 .5893110E+06 .3054988E+06		
-.3367492E+04 .1683746E+06-. .2332800E+07 .4844000E+00		
CASE NUMBER	GROUP NUMBER	2
.8000000E+01-. .4000000E+03-. .5000000E+02-. .1000000E+03 .2000000E+01 .3023716E+01 .7200000E+02 .3430000E+03		
.3779645E+00 .2880000E+03 .2500000E+04 .2000000E+05 .4665600E+05 .1360672E+02 .8575000E+06-. .1889822E+02		
.7559289E+00 .9331200E+05 .3600000E+02 .2744000E+04-. .1440000E+05-. .1715000E+05 .7200000E+06 .3732480E+06		
-.3600000E+04 .1800000E+06-. .2332800E+07 .5128000E+00		
CASE NUMBER	GROUP NUMBER	2
.8301867E+01-. .4150934E+03-. .5000000E+02-. .1012423E+03 .2024846E+01 .3127811E+01 .7289444E+02 .3430000E+03		
.3779645E+00 .2988672E+03 .2500000E+04 .4557546E+04 .4665600E+05 .1360672E+02 .8575000E+06-. .1889822E+02		
.7653197E+00 .9447120E+05 .3600000E+02 .2847540E+04-. .1494336E+05-. .1715000E+05 .7471681E+06 .3873319E+06		
-.3644722E+04 .1822361E+06-. .2332800E+07 .5285000E+00		
CASE NUMBER	GROUP NUMBER	2
.8607439E+01-. .4303719E+03-. .5000000E+02-. .1024695E+03 .2049380E+01 .3253306E+01 .7377805E+02 .3430000E+03		
.3779645E+00 .3098678E+03 .2500000E+04 .2151860E+05 .4665600E+05 .1360672E+02 .8575000E+06-. .1889822E+02		
.7745987E+00 .9561635E+05 .3600000E+02 .2952351E+04-. .1549339E+05-. .1715000E+05 .7746695E+06 .4015887E+06		
-.3888902E+04 .1844451E+06-. .2332800E+07 .5401000E+00		
CASE NUMBER	GROUP NUMBER	2
0. 0. -.5000000E+020. 0. 0. 0. .7290000E+03		
.3333333E+000. .2500000E+040. .4665600E+05. .1200000E+02. .1822500E+07-. .1666667E+02		
0. 0. .3600000E+020. 0. -.3645000E+050. 0.		
0. 0. -.2332800E+07. .3018000E+00		
CASE NUMBER	GROUP NUMBER	2
.3535534E+00-. .1767767E+02-. .5000000E+02-. .3535534E+02 .7071068E+00 .1178511E+00 .2545584E+02 .7290000E+03		
.3333333E+00 .1272792E+02 .2500000E+04 .8838835E+03 .4665600E+05 .1200000E+02 .1822500E+07-. .1666667E+02		
.2357023E+00 .3299077E+05 .3600000E+02 .2577404E+03-. .6363961E+03-. .3645000E+05 .3181981E+05 .1649539E+05		
-.1272792E+04 .6363961E+05-. .2332800E+07 .3281000E+00		

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	GROUP NUMBER	2
.1000000E+01 - .500000E+02 - .500000E+02 - .500000E+02 - .100000E+01 .3333333E+00 .360000E+02 .729000E+03	.3333333E+00 .360000E+02 .250000E+04 .250000E+04 .4665600E+05 .120000E+02 .1822500E+07 -.1666667E+02	
.3333333E+00 .4665600E+05 .360000E+02 .729000E+03 - .180000E+04 - .3645000E+05 .900000E+05 .4665600E+05	.180000E+04 .900000E+05 - .2332800E+07 .3556000E+00	
CASE NUMBER 401	GROUP NUMBER	2
.1637117E+01 - .9185587E+02 - .500000E+02 - .500000E+02 - .6123724E+02 .1224745E+01 .6123724E+02 .4409082E+02 .7290000E+03	.3333333E+00 .6613622E+02 .250000E+04 .4592793E+04 .4665600E+05 .120000E+02 .1822500E+07 -.1666667E+02	
.3333333E+00 .6613622E+02 .250000E+04 .4592793E+04 .4665600E+05 .120000E+02 .1822500E+07 -.1666667E+02	.4082483E+00 .5714170E+05 .360000E+02 .1339259E+04 - .3306811E+04 - .3645000E+05 .1653406E+06 .8571255E+05	
.2204541E+04 .1102270E+06 - .2332800E+07 .3846000E+00		
CASE NUMBER 402	GROUP NUMBER	2
.1637117E+01 - .9185587E+02 - .500000E+02 - .500000E+02 - .6123724E+02 .1224745E+01 .6123724E+02 .4409082E+02 .7290000E+03	.3333333E+00 .6613622E+02 .250000E+04 .4592793E+04 .4665600E+05 .120000E+02 .1822500E+07 -.1666667E+02	
.3333333E+00 .6613622E+02 .250000E+04 .4592793E+04 .4665600E+05 .120000E+02 .1822500E+07 -.1666667E+02	.4082483E+00 .5714170E+05 .360000E+02 .1339259E+04 - .3306811E+04 - .3645000E+05 .1653406E+06 .8571255E+05	
.2204541E+04 .1102270E+06 - .2332800E+07 .3846000E+00		
CASE NUMBER 403	GROUP NUMBER	2
.2828427E+01 - .1414214E+03 - .500000E+02 - .7071068E+02 .1414214E+01 .9428090E+00 .5091169E+02 .7290000E+03	.3333333E+00 .1018234E+03 .250000E+04 .4665600E+05 .120000E+02 .1822500E+07 -.1666667E+02	
.3333333E+00 .1018234E+03 .250000E+04 .4665600E+05 .120000E+02 .1822500E+07 -.1666667E+02	.4714045E+00 .6598155E+05 .260000E+02 .2061923E+04 - .5091169E+04 - .3645000E+05 .2545584E+06 .1319631E+06	
.2545584E+04 .1272792E+06 - .2332800E+07 .4131000E+00		
CASE NUMBER 404	GROUP NUMBER	2
.3952847E+01 - .1976424E+03 - .500000E+02 - .7905694E+02 .1581139E+01 .1317616E+01 .5692100E+02 .7290000E+03	.3333333E+00 .1423025E+03 .250000E+04 .9882118E+04 .4665600E+05 .120000E+02 .1822500E+07 -.1666667E+02	
.3333333E+00 .1423025E+03 .250000E+04 .9882118E+04 .4665600E+05 .120000E+02 .1822500E+07 -.1666667E+02	.5270463E+00 .7376961E+05 .360000E+02 .2881626E+04 - .7115125E+04 - .3645000E+05 .3557562E+06 .1844240E+06	
.2846050E+04 .1423025E+06 - .2332800E+07 .4395000E+00		
CASE NUMBER 405	GROUP NUMBER	2
.5196152E+01 - .2598076E+03 - .500000E+02 - .8660254E+02 .1732051E+01 .1732051E+02 .6235383E+02 .7290000E+03	.3333333E+00 .1870615E+03 .250000E+04 .1299038E+05 .4665600E+05 .120000E+02 .1822500E+07 -.1666667E+02	
.3333333E+00 .1870615E+03 .250000E+04 .1299038E+05 .4665600E+05 .120000E+02 .1822500E+07 -.1666667E+02	.5773503E+00 .8081056E+05 .360000E+02 .3787995E+04 - .9353074E+04 - .3645000E+05 .4676537E+06 .2424317E+06	
.3117691E+04 .1558846E+06 - .2332800E+07 .4778000E+00		
CASE NUMBER 406	GROUP NUMBER	2
.6547900E+01 - .3273950E+03 - .500000E+02 - .9354143E+02 .1870829E+01 .2182633E+01 .6734983E+02 .7290000E+03	.3333333E+00 .2357244E+03 .250000E+04 .1636975E+05 .4665600E+05 .120000E+02 .1822500E+07 -.1666667E+02	
.3333333E+00 .2357244E+03 .250000E+04 .1636975E+05 .4665600E+05 .120000E+02 .1822500E+07 -.1666667E+02	.6236096E+00 .8728538E+05 .360000E+02 .4773419E+04 - .178622E+05 - .3845000E+05 .5893110E+06 .3054988E+06	
.3367492E+04 .183746E+06 - .2332800E+07 .5189000E+00		
CASE NUMBER 407	GROUP NUMBER	2
.6830520E+01 - .3415260E+03 - .500000E+02 - .9486833E+02 .1897367E+01 .2276840E+01 .6830520E+02 .7290000E+03	.3333333E+00 .2458887E+03 .250000E+04 .1707630E+05 .4665600E+05 .120000E+02 .1822500E+07 -.1666667E+02	
.3333333E+00 .2458887E+03 .250000E+04 .1707630E+05 .4665600E+05 .120000E+02 .1822500E+07 -.1666667E+02	.6324555E+00 .8852354E+05 .360000E+02 .4979448E+04 - .1225949E+04 - .3645000E+05 .6147468E+06 .3186847E+06	
.3415260E+04 .1707630E+06 - .2332800E+07 .5315000E+00		
CASE NUMBER 408	GROUP NUMBER	2
0. 0. - .500000E+020. 0. 0. 0. .100000E+04		
.3162278E+000. 0.250000E+040. 0.4665600E+05. 1138420E+02. 2500000E+07-. 1581139E+02		
0. 0. - .360000E+020. 0. 0. - .500000E+050. 0.		
0. 0. - .2332800E+07. 3108000E+00		

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	GROUP NUMBER	2
.3535334E+00 - .1757767E+02 - .500000E+02 - .3535334E+02 .7071068E+00 .1118034E+00 .2545584E+02 .1000000E+04	.3162278E+00 .1272792E+02 .250000E+04 .8838835E+03 .4665600E+05 .1138420E+02 .250000E+07 -.1581139E+02	
.2236068E+00 - .3299077E+05 - .360000E+02 .3535334E+03 - .6363961E+03 - .500000E+05 .3181981E+05 .1649539E+05	.1272792E+04 .6363961E+05 - .2332800E+07 .3382000E+00	
CASE NUMBER 410	GROUP NUMBER	2
.1000000E+01 - .500000E+02 - .500000E+02 - .500000E+02 .1000000E+01 .3162278E+00 .1600000E+02 .1000000E+04	.3162278E+00 .360000E+02 .250000E+04 .250000E+04 .4665600E+05 .1138420E+02 .250000E+07 -.1581139E+02	
.3162278E+00 .360000E+02 .250000E+04 .4665600E+05 .360000E+02 .1000000E+04 - .1800000E+04 - .500000E+05 .9000000E+05 .4665600E+05	.1800000E+04 .9000000E+05 - .2332800E+07 .3666000E+00	
CASE NUMBER 411	GROUP NUMBER	2
.1837117E+01 - .9185587E+02 - .500000E+02 - .6123724E+02 .1224745E+01 .5809475E+00 .4409082E+02 .1000000E+04	.3162278E+00 .6613622E+03 .250000E+04 .4592793E+04 .4665600E+05 .1138420E+02 .250000E+07 -.1581139E+02	
.3162278E+00 .6613622E+03 .250000E+04 .4592793E+04 .4665600E+05 .1138420E+02 .250000E+07 -.1581139E+02	.3872983E+00 .5714170E+05 .360000E+02 .1337117E+04 - .3306811E+04 - .500000E+05 .1653406E+06 .8571255E+05	
.2204541E+04 .1220270E+06 - .2332800E+07 .3954000E+00		
CASE NUMBER 412	GROUP NUMBER	2
.2778070E+01 - .3389035E+03 - .500000E+02 - .7028852E+02 .1405770E+01 .8782095E+00 .5060774E+02 .1000000E+04	.3162278E+00 .1004105E+03 .250000E+04 .6545175E+04 .4665600E+05 .1138420E+02 .250000E+07 -.1581139E+02	
.3162278E+00 .1004105E+03 .250000E+04 .6545175E+04 .4665600E+05 .1138420E+02 .250000E+07 -.1581139E+02	.4445436E+04 .6558763E+05 .360000E+02 .2778070E+04 - .5000526E+04 - .500000E+05 .2500263E+06 .1296136E+06	
.2530387E+04 .1265193E+06 - .2332800E+07 .4210000E+00		
CASE NUMBER 413	GROUP NUMBER	2
.3952847E+01 - .1976424E+03 - .500000E+02 - .7905694E+02 .1581139E+01 .1250000E+01 .5692100E+02 .1000000E+04	.3162278E+00 .1423025E+03 .250000E+04 .9882118E+04 .4665600E+05 .1138420E+02 .250000E+07 -.1581139E+02	
.3162278E+00 .1423025E+03 .250000E+04 .9882118E+04 .4665600E+05 .1138420E+02 .250000E+07 -.1581139E+02	.500000E+00 .7378961E+05 .360000E+02 .3952847E+04 - .7115125E+04 - .500000E+05 .3557562E+06 .1844240E+06	
.2846050E+04 .1423025E+06 - .2332800E+07 .4528000E+00		
CASE NUMBER 414	GROUP NUMBER	2
.5196152E+01 - .2598076E+03 - .500000E+02 - .8660254E+02 .1732051E+01 .1643168E+01 .6235383E+02 .1000000E+04	.3162278E+00 .1870615E+03 .250000E+04 .1299038E+05 .4665600E+05 .1138420E+02 .250000E+07 -.1581139E+02	
.3162278E+00 .1870615E+03 .250000E+04 .1299038E+05 .4665600E+05 .1138420E+02 .250000E+07 -.1581139E+02	.5477226E+00 .8081056E+05 .360000E+02 .5196152E+04 - .9353074E+04 - .500000E+05 .4676537E+06 .2424317E+06	
.3117691E+04 .1558846E+06 - .2332800E+07 .4953000E+00		
CASE NUMBER 415	GROUP NUMBER	2
.5458113E+01 - .2729057E+03 - .500000E+02 - .8803408E+02 .1760682E+01 .1726007E+01 .6234545E+02 .1000000E+04	.3162278E+00 .1964921E+03 .250000E+04 .1364528E+05 .4665600E+05 .1138420E+02 .250000E+07 -.1581139E+02	
.3162278E+00 .1964921E+03 .250000E+04 .1364528E+05 .4665600E+05 .1138420E+02 .250000E+07 -.1581139E+02	.5567764E+00 .8214636E+05 .360000E+02 .5458113E+04 - .9824604E+04 - .500000E+05 .4912302E+06 .2546537E+06	
.3169227E+04 .1584614E+06 - .2332800E+07 .5054000E+00		
CASE NUMBER 416	GROUP NUMBER	2
.5724434E+01 - .2862167E+03 - .500000E+02 - .8944272E+02 .1788854E+01 .1810193E+01 .6439876E+02 .1000000E+04	.3162278E+00 .1964921E+03 .250000E+04 .1431084E+05 .4665600E+05 .1138420E+02 .250000E+07 -.1581139E+02	
.3162278E+00 .1964921E+03 .250000E+04 .1431084E+05 .4665600E+05 .1138420E+02 .250000E+07 -.1581139E+02	.5656854E+00 .8346079E+05 .360000E+02 .5724334E+04 - .1030380E+05 - .500000E+05 .5151901E+06 .2670745E+06	
.3219938E+04 .16099695E+06 - .2332800E+07 .5147000E+00		

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	417	GROUP NUMBER	2
.5994748E+01 - .2997374E+03 - .5000000E+02 - .9082951E+02 .1816590E+01 .1895706E+01 .6539725E+02 .1000000E+04			
.3162278E+00 -.2158109E+03 .2500000E+04 .1498687E+05 .4665600E+05 .1138420E+02 .2500000E+07 -.1581139E+02			
.5744563E+00 .8475483E+05 .3600000E+02 .5854748E+04 -.1079055E+05 .5000000E+05 .5395273E+06 .2796909E+06			
-.3269862E+04 .1634931E+06 -.2332800E+07 .5232000E+00			
CASE NUMBER	418	GROUP NUMBER	2
.6269290E+01 -.3134645E+03 -.5000000E+02 -.9219544E+02 .1843909E+01 .1982524E+01 .6638072E+02 .1000000E+04			
.3162278E+00 .2258944E+03 .2500000E+04 .1567323E+05 .4665600E+05 .1138420E+02 .2500000E+07 -.1581139E+02			
.5830952E+00 .8602941E+05 .3600000E+02 .6269290E+04 -.1128472E+05 .5000000E+05 .5642351E+06 .2925000E+06			
-.3319036E+04 .1655518E+06 -.2332800E+07 .5332000E+00			
CASE NUMBER	419	GROUP NUMBER	2
0. 0. -.5000000E+020. 0. 0. 0. .1728000E+04			
.2886751E+000. 2500000E+040. 4665600E+05 .1039230E+02 .4320000E+07 -.1443376E+02			
0. 0. .3600000E+020. 0. -.8640000E+050. 0.			
0. 0. -.2332800E+07 .3263000E+00			
CASE NUMBER	420	GROUP NUMBER	2
.3535534E+00 -.17677767E+02 -.5000000E+02 -.3535534E+02 .7071068E+00 .1020621E+00 .2545584E+02 .1728000E+04			
.2886751E+00 -.1272792E+02 .2500000E+04 .8838835E+03 .4665600E+05 .1039230E+02 .4320000E+07 -.1443376E+02			
.2041241E+00 .3299077E+05 .3600000E+02 .6109403E+03 -.6363961E+03 -.8640000E+05 .3181981E+05 .1649539E+05			
-.1272792E+04 .6363961E+05 -.2332800E+07 .3538000E+00			
CASE NUMBER	421	GROUP NUMBER	2
.1000000E+01 -.5000000E+02 -.5000000E+02 .1000000E+01 .2885751E+00 .3600000E+02 .1728000E+04			
.2886751E+00 .3600000E+02 .2500000E+04 .2500000E+04 .4665600E+05 .1039230E+02 .4320000E+07 -.1443376E+02			
.2886751E+00 .4665600E+05 .3600000E+02 .1728000E+04 -.1800000E+04 -.8640000E+05 .9000000E+05 .4665600E+05			
-.1800000E+04 .9000000E+05 -.2332800E+07 .3820000E+00			
CASE NUMBER	422	GROUP NUMBER	2
.1837117E+01 -.9185587E+02 -.5000000E+02 -.6123724E+02 .1224745E+01 .530331E+00 .4409082E+02 .1728000E+04			
.2886751E+00 .6613622E+02 .2500000E+04 .4592793E+04 .4665600E+05 .1039230E+02 .4320000E+07 -.1443376E+02			
.3535534E+00 .5714170E+05 .3600000E+02 .3174539E+04 -.3306811E+04 -.8640000E+05 .1653406E+06 .8571255E+05			
-.2204541E+04 .1102270E+06 -.2332800E+07 .4092000E+00			
CASE NUMBER	423	GROUP NUMBER	2
.2828427E+01 -.1414214E+03 -.5000000E+02 -.7071068E+02 .1414214E+01 .8164966E+00 .5091169E+02 .1728000E+04			
.2886751E+00 .1018234E+03 .2500000E+04 .7071068E+04 .4665600E+05 .1039230E+02 .4320000E+07 -.1443376E+02			
.4082483E+00 .6598155E+05 .3600000E+02 .4887522E+04 -.5091169E+04 -.8640000E+05 .2545584E+06 .1319631E+06			
-.2545584E+04 .1272792E+06 -.2332800E+07 .4405000E+00			
CASE NUMBER	424	GROUP NUMBER	2
.3952847E+01 -.1976424E+03 -.5000000E+02 -.7905694E+02 .1581139E+01 .1141089E+01 .5692100E+02 .1728000E+04			
.2886751E+00 .1423025E+03 .2500000E+04 .9882118E+04 .4665600E+05 .1039230E+02 .4320000E+07 -.1443376E+02			
.4564355E+00 .73776961E+05 .3600000E+02 .6830520E+04 -.7115125E+04 -.8640000E+05 .3557582E+06 .1844240E+06			
-.2846050E+04 .1423025E+06 -.2332800E+07 .4796000E+00			

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	425	GROUP NUMBER	2
.4192374E+01 -.2096187E+03 -.5000000E+02 -.8062258E+02 .1612452E+01 .1210234E+01 .5804826E+02 .1728000E+04			
.2886751E+00 .1509255E+03 .2500000E+04 .1048094E+05 .4665600E+05 .1039230E+02 .4320000E+07 -.1443376E+02			
.4554747E+00 .7523054E+05 .3600000E+02 .7244422E+04 -.7546273E+04 -.8640000E+05 .3773137E+06 .1955994E+06			
-.2902413E+04 .1451206E+06 -.2332800E+07 .4892000E+00			
CASE NUMBER	426	GROUP NUMBER	2
.4436553E+01 -.2218276E+03 -.5000000E+02 -.8215838E+02 .1643168E+01 .1286722E+01 .5911540E+02 .1728000E+04			
.2886751E+00 .1597159E+03 .2500000E+04 .1103138E+05 .4665600E+05 .1039230E+02 .4320000E+07 -.1443376E+02			
.4743416E+00 .7666363E+05 .3600000E+02 .7666363E+04 -.7985795E+04 -.8640000E+05 .3992897E+06 .2069918E+06			
-.2957702E+04 .1478851E+06 -.2332800E+07 .4992000E+00			
CASE NUMBER	427	GROUP NUMBER	2
.4685295E+01 -.2342648E+03 -.5000000E+02 -.8366600E+02 .1673320E+01 .1352528E+01 .6023952E+02 .1728000E+04			
.2886751E+00 .1686707E+03 .2500000E+04 .1171324E+05 .4665600E+05 .1039230E+02 .4320000E+07 -.1443376E+02			
.4830459E+00 .7807042E+05 .3600000E+02 .8096192E+04 -.8433533E+04 -.8640000E+05 .4216767E+06 .2185972E+06			
-.3011976E+04 .1505988E+06 -.2332800E+07 .5081000E+00			
CASE NUMBER	428	GROUP NUMBER	2
.4938522E+01 -.2469261E+03 -.5000000E+02 -.8514693E+02 .1702939E+01 .1425629E+01 .6105795E+02 .1728000E+04			
.2886751E+00 .1777858E+03 .2500000E+04 .1234631E+05 .4665600E+05 .1039230E+02 .4320000E+07 -.1443376E+02			
.4915960E+00 .7945231E+05 .3600000E+02 .8533766E+04 -.8889340E+04 -.8640000E+05 .4444670E+06 .2304117E+06			
-.3065290E+04 .1523645E+06 -.2332800E+07 .5176000E+00			
CASE NUMBER	429	GROUP NUMBER	2
0. 0. -.5000000E+020. 0. 0. 0. .3048625E+04			
.2626129E+000. 2500000E+040. 4665600E+05 .9454063E+01 .7621562E+07 -.1313064E+02			
0. 0. .3600000E+020. 0. -.1524313E+060. 0.			
0. 0. -.2332800E+07 .3393000E+00			
CASE NUMBER	430	GROUP NUMBER	2
.3535534E+00 -.17677767E+02 -.5000000E+02 -.1535534E+02 .7071068E+00 .9284767E-01 .2545584E+02 .3048625E+04			
.2626129E+00 .1272792E+02 .2500000E+04 .8838835E+03 .4665600E+05 .9454063E+01 .7621562E+07 -.1313064E+02			
.1856953E+00 .3299077E+05 .3600000E+02 .1077852E+04 -.6363961E+03 -.1524313E+06 .3181981E+05 .1649539E+05			
-.1272792E+04 .6363961E+05 -.2332800E+07 .3893000E+00			
CASE NUMBER	431	GROUP NUMBER	2
.1000000E+01 -.5000000E+02 -.5000000E+02 .1000000E+01 .2626129E+00 .3600000E+02 .3048625E+04			
.2626129E+00 .3600000E+02 .2500000E+04 .2500000E+04 .4665600E+05 .9454063E+01 .7621562E+07 -.1313064E+02			
.2626129E+00 .4665600E+05 .3600000E+02 .3048625E+04 -.1800000E+04 -.1524313E+06 .9000000E+05 .4665600E+05			
-.1800000E+04 .9000000E+05 -.2332800E+07 .3997000E+00			
CASE NUMBER	432	GROUP NUMBER	2
.1837117E+01 -.9185587E+02 -.5000000E+02 -.6123724E+02 .1224745E+01 .4924505E+00 .4409082E+02 .3048625E+04			
.2626129E+00 .6613622E+02 .2500000E+04 .4592793E+04 .4665600E+05 .9454063E+01 .7621562E+07 -.1313064E+02			
.3216338E+00 .5714170E+05 .3600000E+02 .5600582E+04 -.3306811E+04 -.1524313E+06 .1653406E+06 .8571255E+05			
-.2204541E+04 .1102270E+06 -.2332800E+07 .4302000E+00			

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	433	GROUP NUMBER	2				
.2828427E+01	.1414214E+03	.5000000E+02	.7071068E+02	.1414214E+01	.7427814E+00	.50911169E+02	.3048625E+04
.2626129E+00	.1018234E+03	.2500000E+04	.7071068E+04	.4665600E+05	.9454063E+01	.7621562E+07	.1313064E+02
.3713907E+00	.6598155E+05	.3600000E+02	.8622814E+04	.50911169E+04	.1524313E+06	.2545584E+06	.1319631E+06
.2545584E+04	.1272792E+06	.2332800E+07	.4671000E+00				
CASE NUMBER	434	GROUP NUMBER	2				
.3043189E+01	.1521595E+03	.5000000E+02	.7245688E+02	.1449138E+01	.7991806E+00	.5216896E+02	.3048625E+04
.2626129E+00	.1095548E+03	.2500000E+04	.7607973E+04	.4665600E+05	.9454063E+01	.7621562E+07	.1313064E+02
.3805622E+00	.6761097E+05	.3600000E+02	.9277542E+04	.5477740E+04	.1524313E+06	.2738870E+06	.1419830E+06
.2608448E+04	.1304224E+06	.2332800E+07	.4761000E+00				
CASE NUMBER	435	GROUP NUMBER	2				
.3263127E+01	.1631564E+03	.5000000E+02	.7416198E+02	.1483240E+01	.8569392E+00	.5339663E+02	.3048625E+04
.2626129E+00	.1174726E+03	.2500000E+04	.8157818E+04	.4665600E+05	.9454063E+01	.7621562E+07	.1313064E+02
.3895178E+00	.6920203E+05	.3600000E+02	.9948052E+04	.5873629E+04	.1524313E+06	.2936815E+06	.1522445E+06
.2669831E+04	.1334916E+06	.2332800E+07	.4856000E+00				
CASE NUMBER	436	GROUP NUMBER	2				
0.	0.	0.	0.	0.	0.	0.	.3430000E+03
.3779645E+000	0.	0.	.4665600E+05	.1360672E+020	0.		
0.	0.	.3600000E+020	0.	0.	0.	0.	
0.	0.	.2747000E+00					
CASE NUMBER	437	GROUP NUMBER	2				
.3535534E+000	0.	0.	.7071088E+00	.1336306E+00	.2545584E+02	.3430000E+03	
.3779645E+000	.1272729E+020	0.	.4665600E+05	.1360672E+020	0.		
.2672612E+000	.3299077E+05	.3600000E+02	.1212688E+030	0.	0.	.1649539E+05	
0.	0.	.2919000E+00					
CASE NUMBER	438	GROUP NUMBER	2				
.1000000E+010	0.	0.	.1000000E+01	.3779645E+00	.3600000E+02	.3430000E+03	
.3779645E+000	.3600000E+020	0.	.4665600E+05	.1360672E+020	0.		
.3779645E+000	.4665600E+05	.3600000E+02	.3430000E+030	0.	0.	.4665600E+05	
0.	0.	.3168000E+00					
CASE NUMBER	439	GROUP NUMBER	2				
.1837117E+010	0.	0.	.1224745E+01	.6943651E+00	.4409082E+02	.3430000E+03	
.3779645E+000	.6613622E+020	0.	.4665600E+05	.1360672E+020	0.		
.4629100E+000	.5714170E+05	.3600000E+02	.6301312E+030	0.	0.	.8571255E+05	
0.	0.	.3400000E+00					
CASE NUMBER	440	GROUP NUMBER	2				
.2828427E+010	0.	0.	.1414214E+01	.1069045E+01	.50911169E+02	.3430000E+03	
.3779645E+000	.1018234E+030	0.	.4665600E+05	.1360672E+020	0.		
.5345225E+000	.6598155E+05	.3600000E+02	.9701505E+030	0.	0.	.1319631E+06	
0.	0.	.3632000E+00					

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	441	GROUP NUMBER	2				
.3919014E+010	0.	0.	.1576615E+01	.1481248E+01	.5675813E+02	.3430000E+03	
.3779645E+000	.1410845E+030	0.	.4665600E+05	.1360672E+020	0.		
.5959044E+000	.7355584E+05	.3600000E+02	.1344222E+040	0.	0.	.1828455E+06	
0.	0.	.3879000E+00					
CASE NUMBER	442	GROUP NUMBER	2				
.5196152E+010	0.	0.	.1732051E+01	.1963961E+01	.6235383E+02	.3430000E+03	
.3779645E+000	.1870615E+030	0.	.4665600E+05	.1360672E+020	0.		
.6546537E+000	.8081056E+05	.3600000E+02	.1782280E+040	0.	0.	.2424317E+06	
0.	0.	.4187000E+00					
CASE NUMBER	443	GROUP NUMBER	2				
.6547900E+010	0.	0.	.1870829E+01	.2474874E+01	.6734983E+02	.3430000E+03	
.3779645E+000	.2357244E+030	0.	.4665600E+05	.1360672E+020	0.		
.7071068E+000	.8728538E+05	.3600000E+02	.2245930E+040	0.	0.	.3054988E+06	
0.	0.	.4523000E+00					
CASE NUMBER	444	GROUP NUMBER	2				
.6830520E+010	0.	0.	.1897357E+01	.2581694E+01	.6830520E+02	.3430000E+03	
.3779645E+000	.2458987E+030	0.	.4665600E+05	.1360672E+020	0.		
.7171372E+000	.8852354E+05	.3600000E+02	.2342868E+040	0.	0.	.3186847E+06	
0.	0.	.4580000E+00					
CASE NUMBER	445	GROUP NUMBER	2				
.71117092E+010	0.	0.	.1923538E+01	.2690008E+01	.6924738E+02	.3430000E+03	
.3779645E+000	.2562153E+030	0.	.4665600E+05	.1360672E+020	0.		
.7270292E+000	.8974461E+05	.3600000E+02	.2441163E+040	0.	0.	.3320550E+06	
0.	0.	.4641000E+00					
CASE NUMBER	446	GROUP NUMBER	2				
.7407564E+010	0.	0.	.1949359E+01	.2799796E+01	.7017692E+02	.3430000E+03	
.3779645E+000	.2666723E+030	0.	.4665600E+05	.1360672E+020	0.		
.7367884E+000	.9094929E+05	.3600000E+02	.2540794E+040	0.	0.	.3456073E+06	
0.	0.	.4704000E+00					
CASE NUMBER	447	GROUP NUMBER	2				
.7701883E+010	0.	0.	.1974842E+01	.2911038E+01	.7109430E+02	.3430000E+03	
.3779645E+000	.27726578E+030	0.	.4665600E+05	.1360672E+020	0.		
.7464200E+000	.9213822E+05	.3600000E+02	.2641746E+040	0.	0.	.3593390E+06	
0.	0.	.4770000E+00					
CASE NUMBER	448	GROUP NUMBER	2				
.8000000E+010	0.	0.	.2000000E+01	.3023716E+01	.7200000E+02	.3430000E+03	
.3779645E+000	.2880000E+030	0.	.4665600E+05	.1360672E+020	0.		
.7559289E+000	.9331200E+05	.3600000E+02	.2744000E+040	0.	0.	.3732480E+06	
0.	0.	.4838000E+00					

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	449		GROUP NUMBER	2
0.	0.	0.	0.	.7290000E+03
.3333333E+000.	0.	0.	.4665600E+05	.1200000E+020.
0.	.3600000E+020.	0.	0.	0.
0.	0.	.2884000E+000		
CASE NUMBER	450		GROUP NUMBER	2
.3535534E+000.	0.	0.	.7071068E+00	.1178511E+00 .2545584E+02 .7290000E+03
.3333333E+00 .1272792E+020.	0.	0.	.4665600E+05	.1200000E+020.
.2357023E+00 .3299077E+05	.3600000E+02	.2577404E+030.	0.	0.
0.	0.	.3109000E+000		.1649539E+05
CASE NUMBER	451		GROUP NUMBER	2
.1000000E+010.	0.	0.	.1000000E+01	.3333333E+00 .3600000E+02 .7290000E+03
.3333333E+00 .3600000E+020.	0.	0.	.4665600E+05	.1200000E+020.
.3333333E+00 .4665600E+05	.3600000E+02	.7290000E+030.	0.	0.
0.	0.	.3341000E+000		.4665600E+05
CASE NUMBER	452		GROUP NUMBER	2
.1837117E+010.	0.	0.	.1224745E+01	.6123724E+00 .4409082E+02 .7290000E+03
.3333333E+00 .6613622E+020.	0.	0.	.4665600E+05	.1200000E+020.
.4082483E+00 .5714170E+05	.3600000E+02	.1339259E+040.	0.	0.
0.	0.	.3559000E+000		.8571255E+05
CASE NUMBER	453		GROUP NUMBER	2
.2828427E+010.	0.	0.	.1414214E+01	.9428090E+00 .5091169E+02 .7290000E+03
.3333333E+00 .1018234E+030.	0.	0.	.4665600E+05	.1200000E+020.
.4714045E+00 .6598155E+05	.3600000E+02	.2061923E+040.	0.	0.
0.	0.	.3820000E+000		.1319631E+06
CASE NUMBER	454		GROUP NUMBER	2
.3952847E+010.	0.	0.	.1581139E+01	.1317616E+01 .5692100E+02 .7290000E+03
.3333333E+00 .1423025E+030.	0.	0.	.4665600E+05	.1200000E+020.
.5270463E+00 .7376961E+05	.3800000E+02	.2881625E+040.	0.	0.
0.	0.	.4123000E+000		.1844240E+06
CASE NUMBER	455		GROUP NUMBER	2
.5196152E+010.	0.	0.	.1732051E+01	.1732051E+01 .6235383E+02 .7290000E+03
.3333333E+00 .1870615E+030.	0.	0.	.4665600E+05	.1200000E+020.
.5773503E+00 .8081056E+05	.3600000E+02	.3787995E+040.	0.	0.
0.	0.	.4452000E+000		.2424317E+06
CASE NUMBER	456		GROUP NUMBER	2
.5458113E+010.	0.	0.	.1760682E+01	.1819371E+01 .6338454E+02 .7290000E+03
.3333333E+00 .1964921E+030.	0.	0.	.4665600E+05	.1200000E+020.
.5868939E+00 .8214636E+05	.3600000E+02	.3978965E+040.	0.	0.
0.	0.	.4526000E+000		.2546537E+06

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	457		GROUP NUMBER	2
.5724334E+010.	0.	0.	.1788854E+01	.1908111E+01 .6439876E+02 .7290000E+03
.3333333E+00 .2060760E+030.	0.	0.	.4665600E+05	.1200000E+020.
.5962848E+00 .8346079E+05	.3600000E+02	.4173040E+040.	0.	0.
0.	0.	.4601000E+000		.2670745E+06
CASE NUMBER	458		GROUP NUMBER	2
.5994748E+010.	0.	0.	.1816590E+01	.1998249E+01 .6539725E+02 .7290000E+03
.3333333E+00 .2158109E+030.	0.	0.	.4665600E+05	.1200000E+020.
.6055301E+00 .8475483E+05	.3600000E+02	.4370171E+040.	0.	0.
0.	0.	.4685000E+000		.2796909E+06
CASE NUMBER	459		GROUP NUMBER	2
.6269290E+010.	0.	0.	.1843909E+01	.2089762E+01 .6638072E+02 .7290000E+03
.3333333E+00 .2256944E+030.	0.	0.	.4665600E+05	.1200000E+020.
.6146363E+00 .8602941E+05	.3600000E+02	.4570313E+040.	0.	0.
0.	0.	.4770000E+000		.2925000E+06
CASE NUMBER	460		GROUP NUMBER	2
.6547900E+010.	0.	0.	.1870829E+01	.2182633E+01 .6734983E+02 .7290000E+03
.3333333E+00 .2357244E+030.	0.	0.	.4665600E+05	.1200000E+020.
.6236096E+00 .8728538E+05	.3600000E+02	.4773419E+040.	0.	0.
0.	0.	.4855000E+000		.3054988E+06
CASE NUMBER	461		GROUP NUMBER	2
0.	0.	0.	0.	0.
.3162278E+000.	0.	0.	.4665600E+05	.1138420E+020.
0.	.3600000E+020.	0.	0.	0.
0.	0.	.2942000E+000		0.
CASE NUMBER	462		GROUP NUMBER	2
.3535534E+000.	0.	0.	.7071068E+00	.1118034E+00 .2545584E+02 .1000000E+04
.3162278E+00 .1272792E+020.	0.	0.	.4665600E+05	.1138420E+020.
.2236068E+00 .3299077E+05	.3600000E+02	.3535534E+030.	0.	0.
0.	0.	.3178000E+000		.1649539E+05
CASE NUMBER	463		GROUP NUMBER	2
.1000000E+010.	0.	0.	.1000000E+01	.3162278E+00 .3600000E+02 .1000000E+04
.3162278E+00 .3600000E+020.	0.	0.	.4665600E+05	.1138420E+020.
.3162278E+00 .4665600E+05	.3600000E+02	.1000000E+040.	0.	0.
0.	0.	.3399000E+000		.4665600E+05
CASE NUMBER	464		GROUP NUMBER	2
.1837117E+010.	0.	0.	.1224745E+01	.5805475E+00 .4409082E+02 .1000000E+04
.3162278E+00 .6613622E+020.	0.	0.	.4665600E+05	.1138420E+020.
.3872983E+00 .5714170E+05	.3600000E+02	.1837117E+040.	0.	0.
0.	0.	.3645000E+000		.8571255E+05

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	465	GROUP NUMBER	2
.2828427E+010.	0.	0.	.1414214E+01 .8944272E+00 .5091169E+02 .1000000E+04
.3162278E+00 .1018234E+030.	0.	0.	.4665600E+05 .1138420E+020. 0.
.4472136E+00 .6598155E+05 .3600000E+02 .2828427E+040.	0.	0.	.1319631E+05
0.	0.	0.	.3923000E+00
CASE NUMBER	466	GROUP NUMBER	2
.3952847E+010.	0.	0.	.1581139E+01 .1250000E+01 .5692100E+02 .1000000E+04
.3162278E+00 .1423025E+030.	0.	0.	.4665600E+05 .1138420E+020. 0.
.5000000E+00 .7376961E+05 .3600000E+02 .3952847E+040.	0.	0.	.1844240E+05
0.	0.	0.	.4233000E+00
CASE NUMBER	467	GROUP NUMBER	2
.5196152E+010.	0.	0.	.1732051E+01 .1643168E+01 .6235383E+02 .1000000E+04
.3162278E+00 .1870515E+030.	0.	0.	.4665600E+05 .1138420E+020. 0.
.5477226E+00 .8081056E+05 .3600000E+02 .5196152E+040.	0.	0.	.2424317E+05
0.	0.	0.	.4587000E+00
CASE NUMBER	468	GROUP NUMBER	2
.5458113E+010.	0.	0.	.1760682E+01 .1726007E+01 .6338454E+02 .1000000E+04
.3162278E+00 .1984921E+030.	0.	0.	.4665600E+05 .1138420E+020. 0.
.5567764E+00 .8214636E+05 .3600000E+02 .5458113E+040.	0.	0.	.2546537E+05
0.	0.	0.	.4668000E+00
CASE NUMBER	469	GROUP NUMBER	2
.5724334E+010.	0.	0.	.1788854E+01 .1810193E+01 .6439876E+02 .1000000E+04
.3162278E+00 .2060760E+030.	0.	0.	.4665600E+05 .1138420E+020. 0.
.5656854E+00 .8346079E+05 .3600000E+02 .5724334E+040.	0.	0.	.2670745E+05
0.	0.	0.	.4754000E+00
CASE NUMBER	470	GROUP NUMBER	2
0.	0.	0.	0.
.2886751E+000.	0.	0.	.4665600E+05 .1039230E+020. 0.
0.	0.	0.	.3600000E+020.
0.	0.	0.	.3026000E+00
CASE NUMBER	471	GROUP NUMBER	2
.3535534E+000.	0.	0.	.7071068E+00 .1020521E+00 .2545584E+02 .1728000E+04
.2886751E+00 .1272792E+020.	0.	0.	.4665600E+05 .1039230E+020. 0.
.2041241E+00 .3299077E+05 .3600000E+02 .6109403E+030.	0.	0.	.1649539E+05
0.	0.	0.	.3287000E+00
CASE NUMBER	472	GROUP NUMBER	2
.1000000E+010.	0.	0.	.1000000E+01 .2886751E+00 .3600000E+02 .1728000E+04
.2886751E+00 .3600000E+020.	0.	0.	.4665600E+05 .1039230E+020. 0.
.2886751E+00 .4665600E+05 .3600000E+02 .1728000E+040.	0.	0.	.4665600E+05
0.	0.	0.	.3546000E+00

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	473	GROUP NUMBER	2
.1837117E+010.	0.	0.	.1224745E+01 .5303301E+00 .4409082E+02 .1728000E+04
.2886751E+00 .6613622E+020.	0.	0.	.4665600E+05 .1039230E+020. 0.
.3535534E+00 .5714170E+05 .3600000E+02 .3174539E+040.	0.	0.	.8571255E+05
0.	0.	0.	.3817000E+00
CASE NUMBER	474	GROUP NUMBER	2
.2828427E+010.	0.	0.	.1414214E+01 .8164956E+00 .5091169E+02 .1728000E+04
.2886751E+00 .1018234E+030.	0.	0.	.4665600E+05 .1039230E+020. 0.
.4082483E+00 .6598155E+05 .3600000E+02 .4887522E+040.	0.	0.	.1319631E+06
0.	0.	0.	.4125000E+00
CASE NUMBER	475	GROUP NUMBER	2
.3952847E+010.	0.	0.	.1581139E+01 .1141089E+01 .5692100E+02 .1728000E+04
.2886751E+00 .1423025E+030.	0.	0.	.4665600E+05 .1039230E+020. 0.
.4564355E+00 .7376961E+05 .3600000E+02 .6830520E+040.	0.	0.	.1844240E+06
0.	0.	0.	.4458000E+00
CASE NUMBER	476	GROUP NUMBER	2
.4192274E+010.	0.	0.	.1612452E+01 .1210234E+01 .5804826E+02 .1728000E+04
.2886751E+00 .1509255E+030.	0.	0.	.4665600E+05 .1039230E+020. 0.
.4654747E+00 .7523054E+05 .3600000E+02 .7244422E+040.	0.	0.	.1955994E+06
0.	0.	0.	.4532000E+00
CASE NUMBER	477	GROUP NUMBER	2
0.	0.	0.	0.
.2626129E+000.	0.	0.	.4665600E+05 .9454063E+010. 0.
0.	0.	0.	.3600000E+020.
0.	0.	0.	.3163000E+00
CASE NUMBER	478	GROUP NUMBER	2
.3535534E+000.	0.	0.	.7071068E+00 .9284757E-01 .2545584E+02 .3048625E+04
.2626129E+00 .1272792E+020.	0.	0.	.4665600E+05 .9454063E+010. 0.
.1856853E+00 .3299077E+05 .3600000E+02 .1077852E+040.	0.	0.	.1649539E+05
0.	0.	0.	.3437000E+00
CASE NUMBER	479	GROUP NUMBER	2
.1000000E+010.	0.	0.	.1000000E+01 .2626129E+00 .3600000E+02 .3048625E+04
.2626129E+00 .3600000E+020.	0.	0.	.4665600E+05 .9454063E+010. 0.
.2626129E+00 .4665600E+05 .3600000E+02 .3048625E+040.	0.	0.	.4665600E+05
0.	0.	0.	.3730000E+00
CASE NUMBER	480	GROUP NUMBER	2
.1837117E+010.	0.	0.	.1224745E+01 .4824506E+00 .4409082E+02 .3048625E+04
.2626129E+00 .6613622E+020.	0.	0.	.4665600E+05 .9454063E+010. 0.
.3216338E+00 .5714170E+05 .3600000E+02 .5600682E+040.	0.	0.	.8571255E+05
0.	0.	0.	.4032000E+00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT
CASE NUMBER 481 GROUP NUMBER 2
.2023858E+010. .0. .0. .1254911E+01 .5314911E+00 .4553680E+02 .3048625E+04
.2626129E+00 .7285888E+020. .0. .4665600E+05 .9454063E+010. .0.
.3321819E+00 .5901569E+05 .3600000E+02 .6169983E+040. .0.
.0. .0. .4091000E+00
CASE NUMBER 482 GROUP NUMBER 2
.2216529E+010. .0. .0. .1302840E+01 .5820890E+00 .4693826E+02 .3048625E+04
.2626129E+00 .7579504E+020. .0. .4665600E+05 .9454063E+010. .0.
.3424053E+00 .6083198E+05 .3600000E+02 .6757365E+040. .0.
.0. .0. .4152000E+00
CASE NUMBER 483 GROUP NUMBER 2
.2414953E+010. .0. .0. .1341641E+01 .6341978E+00 .4829907E+02 .3048625E+04
.2626129E+00 .8693832E+020. .0. .4665600E+05 .9454063E+010. .0.
.3523321E+00 .6259559E+05 .3600000E+02 .7362287E+040. .0.
.0. .0. .4216000E+00
CASE NUMBER 484 GROUP NUMBER 2
.2618969E+010. .0. .0. .1378405E+01 .6877750E+00 .4962258E+02 .3048625E+04
.2626129E+00 .9428289E+020. .0. .4665600E+05 .9454063E+010. .0.
.3619869E+00 .6431086E+05 .3600000E+02 .7984255E+040. .0.
.0. .0. .4281000E+00
CASE NUMBER 485 GROUP NUMBER 2
.2828427E+010. .0. .0. .1414214E+01 .7427814E+00 .5091169E+02 .3048625E+04
.2626129E+00 .1018234E+030. .0. .4665600E+05 .9454063E+010. .0.
.3713907E+00 .6598155E+05 .3600000E+02 .8622814E+040. .0.
.0. .0. .4351000E+00
CASE NUMBER 486 GROUP NUMBER 2
.0. .0. .1000000E+030. .0. .0. .0. .0. .3430000E+03
.3779845E+000. .0. .1000000E+050. .0. .4665600E+05 .1360672E+02 .3430000E+07 .3779845E+02
.0. .0. .3600000E+020. .0. .3430000E+050. .0.
.0. .0. .4665600E+07 .2542000E+00
CASE NUMBER 487 GROUP NUMBER 2
.3535534E+00 .3535534E+02 .1000000E+03 .7071068E+02 .7071068E+00 .1336306E+00 .2545584E+02 .3430000E+03
.3779645E+00 .1272792E+02 .1000000E+05 .3535534E+04 .4665600E+05 .1360672E+02 .3430000E+07 .3779645E+02
.2672612E+00 .3299077E+05 .3600000E+02 .1212688E+03 .1272792E+04 .3430000E+05 .1272792E+06 .1649539E+05
.2545584E+04 .2545584E+06 .4665600E+07 .2690000E+00
CASE NUMBER 488 GROUP NUMBER 2
.1000000E+01 .1000000E-03 .1000000E+03 .1000000E+03 .1000000E+01 .3779845E+00 .2600000E+02 .3430000E+03
.3779645E+00 .3600000E+02 .1000000E+05 .1000000E+05 .4665600E+05 .1360672E+02 .3430000E+07 .3779645E+02
.3779645E+00 .4665600E+05 .3600000E+02 .3430000E+03 .3600000E+04 .3430000E+05 .3600000E+06 .4665600E+05
.3600000E+04 .3600000E+06 .4665600E+07 .2848000E+00

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT
CASE NUMBER 489 GROUP NUMBER 2
.1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+01 .6943651E+00 .4409082E+02 .3430000E+03
.3779645E+00 .6613622E+02 .1000000E+05 .1837117E+05 .4665600E+05 .1360672E+02 .3430000E+07 .3779645E+02
.4629100E+00 .5714170E+05 .3600000E+02 .6301312E+03 .6613622E+04 .3430000E+05 .6613622E+06 .8571255E+05
.4409082E+04 .4409082E+06 .4665600E+07 .3036000E+00
CASE NUMBER 490 GROUP NUMBER 2
.2828427E+01 .2828427E+03 .1000000E+03 .1414214E+03 .1414214E+01 .1069045E+01 .5091169E+02 .3430000E+03
.3779645E+00 .1018234E+03 .1000000E+05 .2828427E+05 .4665600E+05 .1360672E+02 .3430000E+07 .3779645E+02
.5345225E+00 .6598155E+05 .3600000E+02 .9701505E+03 .1018234E+05 .3430000E+05 .1018234E+07 .1319631E+06
.5091169E+04 .5091169E+06 .4665600E+07 .3241000E+00
CASE NUMBER 491 GROUP NUMBER 2
.3952847E+01 .3952847E+03 .1000000E+03 .1581139E+03 .1581139E+01 .1494036E+01 .5692100E+02 .3430000E+03
.3779645E+00 .1423025E+03 .1000000E+05 .1000000E+05 .4665600E+05 .1360672E+02 .3430000E+07 .3779645E+02
.5975143E+00 .7376961E+05 .3600000E+02 .1355827E+04 .1423025E+05 .3430000E+05 .1423025E+07 .1844240E+06
.5692100E+04 .5692100E+06 .4665600E+07 .3464000E+00
CASE NUMBER 492 GROUP NUMBER 2
.5196152E+01 .5196152E+03 .1000000E+03 .1722051E+03 .1722051E+01 .1952961E+01 .6235383E+02 .3430000E+03
.3779645E+00 .1870615E+03 .1000000E+05 .5196152E+05 .4665600E+05 .1360672E+02 .3430000E+07 .3779645E+02
.6546537E+00 .8081056E+05 .3600000E+02 .1782280E+04 .1870615E+05 .3430000E+05 .1870615E+07 .2424317E+06
.6235383E+04 .6235383E+06 .4665600E+07 .3727000E+00
CASE NUMBER 493 GROUP NUMBER 2
.6547900E+01 .6547900E+03 .1000000E+03 .1870829E+03 .1870829E+01 .2474874E+01 .6734983E+02 .3430000E+03
.3779645E+00 .2357244E+03 .1000000E+05 .6547900E+05 .4665600E+05 .1360672E+02 .3430000E+07 .3779645E+02
.7071068E+00 .8728538E+05 .3600000E+02 .2245930E+04 .2357244E+05 .3430000E+05 .2357244E+07 .3054988E+06
.6734983E+04 .6734983E+06 .4665600E+07 .4046000E+00
CASE NUMBER 494 GROUP NUMBER 2
.6830520E+01 .6830520E+03 .1000000E+03 .1887367E+03 .1887367E+01 .25811694E+01 .5830520E+02 .3430000E+03
.3779645E+00 .2458987E+03 .1000000E+05 .6830520E+05 .4665600E+05 .1360672E+02 .3430000E+07 .3779645E+02
.7171372E+00 .8852354E+05 .3600000E+02 .2342868E+04 .2458987E+05 .3430000E+05 .2458987E+07 .3186847E+06
.6830520E+04 .6830520E+06 .4665600E+07 .4166000E+00
CASE NUMBER 495 GROUP NUMBER 2
.7117092E+01 .7117092E+03 .1000000E+03 .1923538E+03 .1923538E+01 .2690008E+01 .6924738E+02 .3430000E+03
.3779645E+00 .2562153E+03 .1000000E+05 .7117092E+05 .4665600E+05 .1360672E+02 .3430000E+07 .3779645E+02
.7270292E+00 .8974461E+05 .3600000E+02 .22411163E+04 .2562153E+05 .3430000E+05 .2562153E+07 .3320550E+06
.6924738E+04 .6924738E+06 .4665600E+07 .4166000E+00
CASE NUMBER 496 GROUP NUMBER 2
.74075564E+01 .74075564E+03 .1000000E+03 .1949359E+03 .1949359E+01 .2799796E+01 .7017692E+02 .3430000E+03
.3779645E+00 .2666723E+03 .1000000E+05 .74075564E+05 .4665600E+05 .1360672E+02 .3430000E+07 .3779645E+02
.7367884E+00 .9094929E+05 .3600000E+02 .2540794E+04 .2866723E+05 .3430000E+05 .2666723E+07 .3456073E+06
.7017692E+04 .7017692E+06 .4665600E+07 .4232000E+00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT
CASE NUMBER 497 GROUP NUMBER 2
0. 0. .1000000E+030. 0. 0. .7290000E+03
.3333333E+000. .1000000E+050. .4665600E+05 .1200000E+02 .7290000E+07 .3333333E+02
0. 0. .3600000E+020. 0. .7290000E+050. 0.
0. .4665600E+07 .2623000E+00
CASE NUMBER 498 GROUP NUMBER 2
.3535534E+000 .3535534E+02 .1000000E+03 .7071058E+02 .7071058E+00 .1178511E+00 .2545584E+02 .7290000E+03
.3333333E+000 .1272792E+02 .1000000E+05 .3535534E+04 .4665600E+05 .1200000E+02 .7290000E+07 .3333333E+02
.2357023E+000 .3299077E+05 .3600000E+02 .2577404E+03 .1272792E+04 .7290000E+05 .1272792E+06 .1649539E+05
.2545584E+04 .2545584E+06 .4665600E+07 .2795000E+00
CASE NUMBER 499 GROUP NUMBER 2
.1000000E+01 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .3333333E+000 .3600000E+02 .7290000E+03
.3333333E+000 .3600000E+02 .1000000E+05 .1000000E+05 .4665600E+05 .1200000E+02 .7290000E+07 .3333333E+02
.3333333E+000 .4665600E+05 .3600000E+02 .7290000E+03 .3600000E+04 .7290000E+05 .3600000E+06 .4665600E+05
.3600000E+04 .3600000E+06 .4665600E+07 .2983000E+00
CASE NUMBER 500 GROUP NUMBER 2
.1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+01 .6123724E+00 .4409082E+02 .7290000E+03
.3333333E+000 .8613622E+02 .1000000E+05 .1837117E+05 .4665600E+05 .1200000E+02 .7290000E+07 .3333333E+02
.4082483E+000 .5714170E+05 .3600000E+02 .1339259E+04 .6613622E+04 .7290000E+05 .6613622E+06 .8571255E+05
.4409082E+04 .4409082E+06 .4665600E+07 .3197000E+00
CASE NUMBER 501 GROUP NUMBER 2
.2828427E+01 .2828427E+03 .1000000E+03 .1414214E+03 .1414214E+01 .9428090E+00 .5091169E+02 .7290000E+03
.3333333E+000 .1018234E+03 .1000000E+05 .2828427E+05 .4665600E+05 .1200000E+02 .7290000E+07 .3333333E+02
.4714045E+000 .6598155E+05 .3600000E+02 .2061923E+04 .1018234E+05 .7290000E+05 .1018234E+07 .1319631E+05
.5091169E+04 .5091169E+06 .4665600E+07 .3423000E+00
CASE NUMBER 502 GROUP NUMBER 2
.3952847E+01 .3952847E+03 .1000000E+03 .1581139E+03 .1581139E+01 .1317615E+01 .5692100E+02 .7290000E+03
.3333333E+000 .1423025E+03 .1000000E+05 .3952847E+05 .4665600E+05 .1200000E+02 .7290000E+07 .3333333E+02
.5270463E+000 .7376961E+05 .3600000E+02 .2881526E+04 .1423025E+05 .7290000E+05 .1423025E+07 .1844240E+06
.5692100E+04 .5692100E+06 .4665600E+07 .3587000E+00
CASE NUMBER 503 GROUP NUMBER 2
.5196152E+01 .5196152E+03 .1000000E+03 .1732051E+03 .1732051E+01 .1732051E+01 .6235383E+02 .7290000E+03
.3333333E+000 .1870615E+03 .1000000E+05 .5196152E+05 .4665600E+05 .1200000E+02 .7290000E+07 .3333333E+02
.5773503E+000 .8081056E+05 .3600000E+02 .3787595E+04 .1870615E+05 .7290000E+05 .1870615E+07 .2424317E+06
.6235383E+04 .6235383E+06 .4665600E+07 .4006000E+00
CASE NUMBER 504 GROUP NUMBER 2
.5458113E+01 .5458113E+03 .1000000E+03 .1760682E+03 .1760682E+01 .1878371E+01 .6338454E+02 .7290000E+03
.3333333E+000 .1964921E+03 .1000000E+05 .5458113E+05 .4665600E+05 .1200000E+02 .7290000E+07 .3333333E+02
.5868939E+000 .8214636E+05 .3600000E+02 .3978955E+04 .1964921E+05 .7290000E+05 .1964921E+07 .2546537E+06
.6338454E+04 .6338454E+06 .4665600E+07 .4078000E+00

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT
CASE NUMBER 505 GROUP NUMBER 2
.5724334E+01 .5724334E+03 .1000000E+03 .1788854E+03 .1788854E+01 .1908111E+01 .6439876E+02 .7290000E+03
.3333333E+000 .2060760E+03 .1000000E+05 .5724334E+05 .4665600E+05 .1200000E+02 .7290000E+07 .3333333E+02
.5962848E+000 .8346079E+05 .3600000E+02 .4173040E+04 .2060760E+05 .7290000E+05 .2060760E+07 .2670745E+06
.6439876E+04 .6439876E+06 .4665600E+07 .4152000E+00
CASE NUMBER 506 GROUP NUMBER 2
0. 0. .1000000E+030. 0. 0. .1000000E+04
.3162278E+000. .1000000E+050. .4665600E+05 .1138420E+02 .1000000E+08 .3162278E+02
0. 0. .3600000E+020. 0. .1000000E+050. 0.
0. .4665600E+07 .2667000E+00
CASE NUMBER 507 GROUP NUMBER 2
.3535534E+000 .3535534E+02 .1000000E+03 .7071068E+02 .7071068E+00 .1118034E+00 .2545584E+02 .1000000E+04
.3162278E+000 .1272792E+02 .1000000E+05 .3535534E+05 .4665600E+05 .1138420E+02 .1000000E+08 .3162278E+02
.2236068E+000 .3299077E+05 .3600000E+02 .3535534E+03 .1272792E+04 .1000000E+06 .1272792E+06 .1649539E+05
.2545584E+04 .2545584E+06 .4665600E+07 .2846000E+00
CASE NUMBER 508 GROUP NUMBER 2
.1000000E+000 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .3162278E+00 .3600000E+02 .1000000E+04
.3162278E+000 .1600000E+02 .1000000E+05 .4665600E+05 .1138420E+02 .1000000E+08 .3162278E+02
.3162278E+000 .4665600E+05 .3600000E+02 .1000000E+04 .3600000E+04 .1000000E+06 .3600000E+05 .4665600E+05
.3600000E+04 .3600000E+06 .4665600E+07 .3053000E+00
CASE NUMBER 509 GROUP NUMBER 2
.1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+01 .5809475E+00 .4409082E+02 .1000000E+04
.3162278E+000 .6613622E+02 .1000000E+05 .1837117E+05 .4665600E+05 .1138420E+02 .1000000E+08 .3162278E+02
.3872983E+000 .5714170E+05 .3600000E+02 .1837117E+04 .6613622E+04 .1000000E+06 .6613622E+06 .8571255E+05
.4409082E+04 .4409082E+06 .4665600E+07 .3274000E+00
CASE NUMBER 510 GROUP NUMBER 2
.2828427E+01 .2828427E+03 .1000000E+03 .1414214E+03 .1414214E+01 .8944272E+00 .5091169E+02 .1000000E+04
.3162278E+000 .1018234E+03 .1000000E+05 .2828427E+05 .4665600E+05 .1138420E+02 .1000000E+08 .3162278E+02
.4472136E+000 .6598155E+05 .3600000E+02 .2828427E+04 .1018234E+05 .1000000E+06 .1018234E+07 .1319631E+05
.5091169E+04 .5091169E+06 .4665600E+07 .3515000E+00
CASE NUMBER 511 GROUP NUMBER 2
.3952847E+01 .3952847E+03 .1000000E+03 .1581139E+03 .1581139E+01 .1250000E+01 .5692100E+02 .1000000E+04
.3162278E+000 .1423025E+03 .1000000E+05 .3952847E+05 .4665600E+05 .1138420E+02 .1000000E+08 .3162278E+02
.5090202E+000 .7376961E+05 .3600000E+02 .3952847E+04 .1423025E+05 .1000000E+06 .1423025E+07 .1844240E+06
.5692100E+04 .5692100E+06 .4665600E+07 .3802000E+00
CASE NUMBER 512 GROUP NUMBER 2
.4192374E+01 .4192374E+03 .1000000E+03 .1612452E+03 .1612452E+01 .1325745E+01 .5804826E+02 .1000000E+04
.3162278E+000 .1423025E+03 .1000000E+05 .4192374E+05 .4665600E+05 .1138420E+02 .1000000E+08 .3162278E+02
.5099020E+000 .7522054E+05 .3600000E+02 .4192374E+04 .1509255E+05 .1000000E+06 .1509255E+07 .1955994E+06
.5804826E+04 .5804826E+06 .4665600E+07 .3865000E+00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	513	GROUP NUMBER	2
	.4436553E+01 .4436553E+03 .1000000E+03 .1483168E+03 .1643168E+01 .1402961E+01 .5915404E+02 .1000000E+04		
	.3162278E+00 .1597159E+03 .1000000E+05 .4436553E+05 .4665600E+05 .1138420E+02 .1000000E+08 .3162278E+02		
	.5196152E+00 .7666363E+05 .3600000E+02 .4436553E+04 .1597159E+05 .1000000E+06 .1597159E+07 .2069318E+06		
	.5915404E+04 .5915404E+06 .4665600E+07 .3931000E+00		
CASE NUMBER	514	GROUP NUMBER	2
	.4685296E+01 .4685296E+03 .1000000E+03 .1673320E+03 .1673320E+01 .1481621E+01 .6023952E+02 .1000000E+04		
	.3162278E+00 .1686707E+03 .1000000E+05 .4685296E+05 .4665600E+05 .1138420E+02 .1000000E+08 .3162278E+02		
	.5291503E+00 .7807042E+05 .3600000E+02 .4685296E+04 .1686707E+05 .1000000E+06 .1686707E+07 .2185972E+06		
	.6023952E+04 .6023952E+06 .4665600E+07 .4000000E+00		
CASE NUMBER	515	GROUP NUMBER	2
0.	0. .1000000E+030. 0. 0. .1728000E+04		
	.2886751E+000. .1000000E+050. .4665600E+05 .1039230E+02 .1728000E+08 .2886751E+02		
0.	0. .3600000E+020. 0. .1728000E+060. 0.		
0.	0. .4665600E+07 .2754000E+00		
CASE NUMBER	516	GROUP NUMBER	2
	.3535534E+00 .3535534E+02 .1000000E+03 .7071068E+02 .7071068E+00 .1020521E+00 .2545584E+02 .1728000E+04		
	.2886751E+00 .1272792E+02 .1000000E+05 .3535534E+04 .4665600E+05 .1039230E+02 .1728000E+08 .2886751E+02		
	.2041241E+00 .3295077E+05 .3600000E+02 .6109403E+03 .1272792E+04 .1728000E+06 .1272792E+06 .1649539E+05		
	.2545584E+04 .2545584E+06 .4665600E+07 .2953000E+00		
CASE NUMBER	517	GROUP NUMBER	2
	.1000000E+01 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .2886751E+00 .3600000E+02 .1728000E+04		
	.2886751E+00 .3600000E+02 .1000000E+05 .1000000E+05 .4665600E+05 .1039230E+02 .1728000E+08 .2886751E+02		
	.2886751E+00 .4665600E+05 .3600000E+02 .1728000E+04 .3600000E+04 .1728000E+06 .3600000E+06 .4665600E+05		
	.3600000E+04 .3600000E+06 .4665600E+07 .3191000E+00		
CASE NUMBER	518	GROUP NUMBER	2
	.1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+01 .5303301E+00 .4409082E+02 .1728000E+04		
	.2886751E+00 .6613622E+02 .1000000E+05 .1837117E+05 .4665600E+05 .1039230E+02 .1728000E+08 .2886751E+02		
	.3535534E+00 .5714170E+05 .3600000E+02 .3174539E+04 .6613622E+04 .1728000E+06 .6613622E+06 .8571255E+05		
	.4409082E+04 .4409082E+06 .4665600E+07 .3429000E+00		
CASE NUMBER	519	GROUP NUMBER	2
	.2828427E+01 .2828427E+03 .1000000E+03 .1414214E+03 .1414214E+01 .8164956E+00 .5091169E+02 .1728000E+04		
	.2886751E+00 .1018234E+03 .1000000E+05 .2828427E+05 .4665600E+05 .1039230E+02 .1728000E+08 .2886751E+02		
	.4082483E+00 .6598155E+05 .3600000E+02 .4887522E+04 .1018234E+05 .1728000E+06 .1018234E+07 .1319631E+06		
	.5091169E+04 .5091169E+06 .4665600E+07 .3704000E+00		
CASE NUMBER	520	GROUP NUMBER	2
	.3043189E+01 .3043189E+03 .1000000E+03 .1449138E+03 .1449138E+01 .8784930E+00 .5216896E+02 .1728000E+04		
	.2886751E+00 .1095548E+03 .1000000E+05 .3043189E+05 .4665600E+05 .1039230E+02 .1728000E+08 .2886751E+02		
	.4183300E+00 .6761097E+05 .3600000E+02 .5258631E+04 .1095548E+05 .1728000E+06 .1095548E+07 .1419830E+06		
	.5216896E+04 .5216896E+06 .4665600E+07 .3764000E+00		

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	521	GROUP NUMBER	2
	.3263127E+01 .3263127E+03 .1000000E+03 .1483240E+03 .1483240E+01 .9419837E+00 .5339663E+02 .1728000E+04		
	.2886751E+00 .11174725E+03 .1000000E+05 .3263127E+05 .4665600E+05 .1039230E+02 .1728000E+08 .2886751E+02		
	.4281744E+00 .6920203E+05 .3600000E+02 .5638684E+04 .1174726E+05 .1728000E+06 .1174726E+07 .1522445E+06		
	.5339663E+00 .5339663E+06 .4665600E+07 .3826000E+00		
CASE NUMBER	522	GROUP NUMBER	2
	.3488123E+01 .3488123E+03 .1000000E+03 .1516575E+03 .1516575E+01 .1006934E+01 .5459670E+02 .1728000E+04		
	.2886751E+00 .1255724E+03 .1000000E+05 .3488123E+05 .4665600E+05 .1039230E+02 .1728000E+08 .2886751E+02		
	.4377975E+00 .7075753E+05 .3600000E+02 .6027475E+04 .1255724E+05 .1728000E+06 .1255724E+07 .1627419E+06		
	.5459670E+04 .5459670E+06 .4665600E+07 .3891000E+00		
CASE NUMBER	523	GROUP NUMBER	2
0.	0. .1000000E+030. 0. 0. .3048625E+04		
	.2626129E+000. .1000000E+050. .4665600E+05 .9454063E+01 .3048625E+08 .2626129E+02		
0.	0. .3600000E+020. 0. .3048625E+060. 0.		
0.	0. .4665600E+07 .2868000E+00		
CASE NUMBER	524	GROUP NUMBER	2
	.3535534E+00 .3535534E+02 .1000000E+03 .7071068E+02 .7071068E+01 .9284757E+00 .2545584E+02 .3048625E+04		
	.2626129E+00 .1272792E+02 .1000000E+05 .3535534E+04 .4665600E+05 .9454063E+01 .3048625E+08 .2626129E+02		
	.1856853E+00 .3295077E+05 .3600000E+02 .1077852E+04 .1272792E+04 .3048625E+06 .1272792E+06 .1649535E+05		
	.2545584E+04 .2545584E+06 .4665600E+07 .3096000E+00		
CASE NUMBER	525	GROUP NUMBER	2
	.1000000E+01 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .2626129E+00 .3600000E+02 .3048625E+04		
	.2626129E+00 .3600000E+02 .1000000E+05 .1000000E+05 .4665600E+05 .9454063E+01 .3048625E+08 .2626129E+02		
	.2626129E+00 .4665600E+05 .3600000E+02 .4048625E+04 .3600000E+04 .3048625E+06 .3600000E+06 .4665600E+05		
	.3600000E+04 .3600000E+06 .4665600E+07 .3356000E+00		
CASE NUMBER	526	GROUP NUMBER	2
	.1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+01 .4824506E+00 .4409082E+02 .3048625E+04		
	.2626129E+00 .6613622E+02 .1000000E+05 .1837117E+05 .4665600E+05 .9454063E+01 .3048625E+08 .2626129E+02		
	.3216338E+00 .5714170E+05 .3600000E+02 .5600682E+04 .6613622E+04 .3048625E+06 .6613622E+06 .8571255E+05		
	.4409082E+04 .4409082E+06 .4665600E+07 .3629000E+00		
CASE NUMBER	527	GROUP NUMBER	2
	.2023858E+01 .2023858E+03 .1000000E+03 .1264911E+03 .1264911E+01 .5314911E+00 .4553680E+02 .3048625E+04		
	.2626129E+00 .7285888E+02 .1000000E+05 .2023858E+05 .4665600E+05 .9454063E+01 .3048625E+08 .2626129E+02		
	.3321819E+00 .5901569E+05 .3600000E+02 .6169983E+04 .7285888E+04 .3048625E+06 .7285888E+06 .9442510E+05		
	.4553680E+04 .4553680E+06 .4665600E+07 .3688000E+00		
CASE NUMBER	528	GROUP NUMBER	2
0.	0. .2000000E+030. 0. 0. .3430000E+03		
	.3779645E+000. .4000000E+050. .4665600E+05 .1360672E+02 .1372000E+08 .7559289E+02		
0.	0. .3500000E+020. 0. .6860000E+050. 0.		
0.	0. .9331200E+07 .2363000E+00		

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT
 CASE NUMBER 529 GROUP NUMBER 2
 .3535534E+00 .7071068E+02 .2000000E+03 .1414214E+03 .7071068E+00 .1336306E+00 .2545584E+02 .3430000E+03
 .3779645E+00 .1272792E+02 .4000000E+05 .1414214E+05 .4665600E+05 .1360672E+02 .1372000E+08 .7559289E+02
 .2672612E+00 .3298077E+05 .3600000E+02 .1212688E+03 .2545584E+04 .6860000E+05 .5091169E+06 .1649539E+05
 .5091169E+04 .1018234E+07 .9331200E+07 .2471000E+00
 CASE NUMBER 530 GROUP NUMBER 2
 .1000000E+01 .2000000E+03 .2000000E+03 .2000000E+03 .1000000E+01 .3779645E+00 .3600000E+02 .3430000E+03
 .3779645E+00 .3600000E+02 .4000000E+05 .4000000E+05 .4665600E+05 .1360672E+02 .1372000E+08 .7559289E+02
 .3779645E+00 .4665600E+05 .3600000E+02 .3430000E+03 .7200000E+04 .6860000E+05 .1440000E+07 .4665600E+05
 .7200000E+00 .1440000E+07 .9331200E+07 .2622000E+00
 CASE NUMBER 531 GROUP NUMBER 2
 .1837117E+01 .3674235E+03 .2000000E+03 .2449490E+03 .1224745E+01 .6943651E+00 .4409082E+02 .3430000E+03
 .3779645E+00 .6613622E+02 .4000000E+05 .7348465E+05 .4665600E+05 .1360672E+02 .1372000E+08 .7559289E+02
 .4629100E+00 .5714170E+05 .3600000E+02 .6301312E+03 .1322724E+05 .6860000E+05 .2645449E+07 .8571255E+05
 .8818163E+00 .1763633E+07 .9331200E+07 .2788000E+00
 CASE NUMBER 532 GROUP NUMBER 2
 .2828427E+01 .5656854E+03 .2000000E+03 .2828427E+03 .1414214E+01 .1069045E+01 .5091169E+02 .3430000E+03
 .3779645E+00 .1018234E+03 .4000000E+05 .1131371E+06 .4665600E+05 .1360672E+02 .1372000E+08 .7559289E+02
 .5345225E+00 .6598155E+05 .3600000E+02 .9701505E+03 .2036468E+05 .6860000E+05 .4072935E+07 .1319631E+06
 .1018234E+05 .2036468E+07 .9331200E+07 .2973000E+00
 CASE NUMBER 533 GROUP NUMBER 2
 .3952847E+01 .7905694E+03 .2000000E+03 .1622728E+03 .1581139E+01 .1494035E+01 .5692100E+02 .3430000E+03
 .3779645E+00 .1423025E+03 .4000000E+05 .1581139E+06 .4665600E+05 .1360672E+02 .1372000E+08 .7559289E+02
 .5976143E+00 .7376961E+05 .3600000E+02 .1355827E+04 .2846050E+05 .6860000E+05 .5692100E+07 .1844240E+06
 .1138420E+05 .2276840E+07 .9331200E+07 .3187000E+00
 CASE NUMBER 534 GROUP NUMBER 2
 .5196152E+01 .1039230E+04 .2000000E+03 .3464102E+03 .1732051E+01 .1963961E+01 .6235383E+02 .3430000E+03
 .3779645E+00 .1870615E+03 .4000000E+05 .2078461E+06 .4665600E+05 .1360672E+02 .1372000E+08 .7559289E+02
 .6546537E+00 .8081056E+05 .3600000E+02 .1782280E+04 .3741230E+05 .6860000E+05 .7482459E+07 .2424317E+06
 .1247077E+05 .2494153E+07 .9331200E+07 .3438000E+00
 CASE NUMBER 535 GROUP NUMBER 2
 .6547900E+01 .1309580E+04 .2000000E+03 .3741657E+03 .1870829E+01 .2474874E+01 .6734983E+02 .3430000E+03
 .3779645E+00 .2357244E+03 .4000000E+05 .2619160E+06 .4665600E+05 .1360672E+02 .1372000E+08 .7559289E+02
 .7071068E+00 .8728538E+05 .3600000E+02 .2245930E+04 .4714488E+05 .6860000E+05 .9428977E+07 .3054988E+06
 .1346997E+05 .2693993E+07 .9331200E+07 .3733000E+00
 CASE NUMBER 536 GROUP NUMBER 2
 .6830520E+01 .1366104E+04 .2000000E+03 .3794733E+03 .1897357E+01 .2581694E+01 .6830520E+02 .3430000E+03
 .3779645E+00 .2458987E+03 .4000000E+05 .2732208E+06 .4665600E+05 .1360672E+02 .1372000E+08 .7559289E+02
 .7171372E+00 .8852354E+05 .3600000E+02 .2342868E+04 .4917974E+05 .6860000E+05 .9835948E+07 .3186847E+06
 .1366104E+05 .2732208E+07 .9331200E+07 .3787000E+00

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT
 CASE NUMBER 537 GROUP NUMBER 2
 0. 0. .2000000E+03. 0. 0. .7290000E+03
 .3333333E+000. .4000000E+050. .4665600E+05 .1200000E+02 .2916000E+08 .6666667E+02
 0. 0. .3600000E+020. 0. .1458000E+06. 0.
 0. 0. .9331200E+07 .2439000E+00
 CASE NUMBER 538 GROUP NUMBER 2
 .3535534E+00 .7071068E+02 .2000000E+03 .1414214E+03 .7071068E+00 .1178511E+00 .2545584E+02 .7290000E+03
 .3333333E+00 .1272792E+02 .4000000E+05 .1414214E+05 .4665600E+05 .1200000E+02 .2916000E+08 .6666667E+02
 .2357023E+00 .3299077E+05 .3600000E+02 .2577404E+03 .2545584E+04 .1458000E+06 .5091169E+06 .1649539E+05
 .5091169E+04 .1018234E+07 .9331200E+07 .2572000E+00
 CASE NUMBER 539 GROUP NUMBER 2
 .1000000E+01 .2000000E+03 .2000000E+03 .1000000E+01 .3333333E+00 .3600000E+02 .7290000E+03
 .3333333E+00 .3600000E+02 .4000000E+05 .4000000E+05 .4665600E+05 .1200000E+02 .2916000E+08 .6666667E+02
 .3333333E+00 .4665600E+05 .3600000E+02 .7290000E+03 .7200000E+04 .1458000E+06 .1440000E+07 .4665600E+05
 .7200000E+04 .1440000E+07 .9331200E+07 .2743000E+00
 CASE NUMBER 540 GROUP NUMBER 2
 .1837117E+01 .3674235E+03 .2000000E+03 .2449490E+03 .1224745E+01 .6123724E+00 .4409082E+02 .7290000E+03
 .3333333E+00 .6613622E+02 .4000000E+05 .7248465E+05 .4665600E+05 .1200000E+02 .2916000E+08 .6666667E+02
 .4082248E+00 .5714170E+05 .3600000E+02 .1339259E+04 .1322724E+05 .1458000E+06 .2645449E+07 .8571255E+05
 .8818163E+04 .1763633E+07 .9331200E+07 .2939000E+00
 CASE NUMBER 541 GROUP NUMBER 2
 .2828427E+01 .5656854E+03 .2000000E+03 .2828427E+03 .1414214E+01 .9428090E+00 .5091169E+02 .7290000E+03
 .3333333E+00 .1018234E+03 .4000000E+05 .1131371E+06 .4665600E+05 .1200000E+02 .2916000E+08 .6666667E+02
 .4714045E+00 .6598155E+05 .3600000E+02 .2061923E+04 .2036468E+05 .1458000E+06 .4072935E+07 .1319631E+06
 .1018234E+05 .2036468E+07 .9331200E+07 .3165000E+00
 CASE NUMBER 542 GROUP NUMBER 2
 .3952847E+01 .7905694E+03 .2000000E+03 .3162278E+03 .1581139E+01 .1317616E+01 .5692100E+02 .7290000E+03
 .3333333E+00 .1423025E+03 .4000000E+05 .1581139E+06 .4665600E+05 .1200000E+02 .2916000E+08 .6666667E+02
 .5270463E+00 .7376961E+05 .3600000E+02 .2881626E+04 .2846050E+05 .1458000E+06 .5692100E+07 .1844240E+06
 .1138420E+05 .2276840E+07 .9331200E+07 .3410000E+00
 CASE NUMBER 543 GROUP NUMBER 2
 .4192374E+01 .8384748E+03 .2000000E+03 .3224903E+03 .1612452E+01 .1397458E+01 .5804826E+02 .7290000E+03
 .3333333E+00 .1595255E+03 .4000000E+05 .1676950E+06 .4665600E+05 .1200000E+02 .2916000E+08 .6666667E+02
 .5374838E+00 .7523054E+05 .3600000E+02 .3056241E+04 .3018509E+05 .1458000E+06 .6037019E+07 .1955994E+06
 .1160956E+05 .2321930E+07 .9331200E+07 .3464000E+00
 CASE NUMBER 544 GROUP NUMBER 2
 .4436553E+01 .8873105E+03 .2000000E+03 .3286335E+03 .1643168E+01 .1478851E+01 .5915404E+02 .7290000E+03
 .3333333E+00 .1597158E+03 .4000000E+05 .1774621E+06 .4665600E+05 .1200000E+02 .2916000E+08 .6666667E+02
 .5477226E+00 .7666363E+05 .3600000E+02 .3234247E+04 .3194318E+05 .1458000E+06 .6388636E+07 .2069918E+06
 .1160818E+05 .2366161E+07 .9331200E+07 .3519000E+00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	GROUP NUMBER
545	2
.4685296E+01 .9370592E+03 .2000000E+03 .3346640E+03 .1673320E+01 .1561765E+01 .6023952E+02 .7290000E+03	
.3333333E+00 .1686707E+03 .4000000E+05 .1874118E+06 .4665600E+05 .1200000E+02 .2916000E+08 .6666667E+02	
.5577734E+00 .7807042E+05 .3600000E+02 .3415581E+04 .3373413E+05 .1458000E+06 .6746826E+07 .2185972E+06	
.1204790E+05 .2409581E+07 .9331200E+07 .3577000E+00	
CASE NUMBER	2
546	
.4935222E+01 .9877044E+03 .2000000E+03 .3405877E+03 .1702939E+01 .1646174E+01 .6130579E+02 .7290000E+03	
.3333333E+00 .1777868E+03 .4000000E+05 .1975409E+06 .4665600E+05 .1200000E+02 .2816000E+08 .6666667E+02	
.5676462E+00 .7945231E+05 .3600000E+02 .3600183E+04 .3555736E+05 .1458000E+06 .7111472E+07 .2304117E+06	
.1226116E+05 .2452232E+07 .9331200E+07 .3638000E+00	
CASE NUMBER	2
547	
0. 0. .2000000E+03. 0. 0. .1000000E+04	
.3162278E+000. .4000000E+050. .4665600E+05 .1138420E+02 .4000000E+08 .6324555E+02	
0. 0. .3600000E+020. 0. .2000000E+060. 0.	
0. 0. .9331200E+07 .2479000E+00	
CASE NUMBER	2
548	
.3535534E+00 .7071068E+02 .2000000E+03 .1414214E+03 .7071068E+00 .1118034E+00 .2545584E+02 .1000000E+04	
.3162278E+00 .1272792E+02 .4000000E+05 .1414214E+05 .4665600E+05 .1138420E+02 .4000000E+08 .6324555E+02	
.2236066E+00 .3299077E+05 .3600000E+02 .3535534E+03 .2545584E+04 .2000000E+06 .5091169E+06 .1649539E+05	
.5091169E+04 .1018234E+07 .9331200E+07 .2625000E+00	
CASE NUMBER	2
549	
.1000000E+01 .2000000E+03 .2000000E+03 .1000000E+01 .3162278E+00 .3800000E+02 .1000000E+04	
.3162278E+00 .3600000E+02 .4000000E+05 .4000000E+05 .4665600E+05 .1138420E+02 .4000000E+08 .6324555E+02	
.3162278E+00 .4665600E+05 .3600000E+02 .1000000E+04 .7200000E+04 .2000000E+06 .1440000E+07 .4665600E+05	
.7200000E+04 .1440000E+07 .9331200E+07 .2809000E+00	
CASE NUMBER	2
550	
.1837117E+01 .3674235E+03 .2000000E+03 .2449490E+03 .1224745E+01 .5809475E+00 .4409082E+02 .1000000E+04	
.3162278E+00 .6613622E+02 .4000000E+05 .7348469E+05 .4665600E+05 .1138420E+02 .4000000E+08 .6324555E+02	
.3872938E+00 .5714170E+05 .3600000E+02 .1837117E+04 .1322724E+05 .2000000E+06 .2645449E+07 .8571255E+05	
.8818163E+04 .1763633E+07 .9331200E+07 .3018000E+00	
CASE NUMBER	2
551	
.2828427E+01 .5656854E+03 .2000000E+03 .2828427E+03 .1414214E+01 .8944272E+00 .5091169E+02 .1000000E+04	
.3162278E+00 .6613622E+02 .4000000E+05 .7348469E+05 .4665600E+05 .1138420E+02 .4000000E+08 .6324555E+02	
.4472135E+00 .6598155E+05 .3600000E+02 .2828427E+04 .2036468E+05 .2000000E+06 .4072935E+07 .1319631E+06	
.1018234E+05 .2036468E+07 .9331200E+07 .3254000E+00	
CASE NUMBER	2
552	
.3952847E+01 .7905694E+03 .2000000E+03 .3162278E+03 .1581139E+01 .1250000E+01 .5692100E+02 .1000000E+04	
.3162278E+00 .1423025E+03 .4000000E+05 .1581139E+06 .4665600E+05 .1138420E+02 .4000000E+08 .6324555E+02	
.5000000E+00 .7376961E+05 .3600000E+02 .3952847E+04 .2846050E+05 .2000000E+06 .5692100E+07 .1844240E+06	
.1138420E+05 .2276840E+07 .9331200E+07 .3517000E+00	

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	GROUP NUMBER
553	2
.4192374E+01 .8384748E+03 .2000000E+03 .3224903E+03 .1612452E+01 .1325745E+01 .5804825E+02 .1000000E+04	
.3162278E+00 .1509255E+03 .4000000E+05 .1676950E+06 .4665600E+05 .1138420E+02 .4000000E+08 .6324555E+02	
.5099020E+00 .7523054E+05 .3600000E+02 .4192374E+04 .3018509E+05 .2000000E+06 .6037019E+07 .1955994E+06	
.1160965E+05 .2321930E+07 .9331200E+07 .3575000E+00	
CASE NUMBER	2
554	
0. 0. .2000000E+030. 0. 0. .1728000E+04	
.2886751E+000. .4000000E+050. .4665600E+05 .1039230E+02 .6912000E+08 .5773503E+02	
0. 0. .3600000E+020. 0. .3456000E+060. 0.	
0. 0. .9331200E+07 .2564000E+00	
CASE NUMBER	2
555	
.3535534E+00 .7071068E+02 .2000000E+03 .1414214E+03 .7071068E+00 .1020621E+00 .2545584E+02 .1728000E+04	
.2886751E+00 .1272792E+02 .4000000E+05 .1414214E+05 .4665600E+05 .1039230E+02 .6912000E+08 .5773503E+02	
.2041241E+00 .3299077E+05 .3600000E+02 .6109403E+03 .1322724E+05 .3456000E+06 .5091169E+06 .1649539E+05	
.5091169E+04 .1018234E+07 .9331200E+07 .2736000E+00	
CASE NUMBER	2
556	
.1000000E+01 .2000000E+03 .2000000E+03 .1000000E+01 .2886751E+00 .3600000E+02 .1728000E+04	
.2886751E+00 .3600000E+02 .4000000E+05 .4000000E+05 .4665600E+05 .1039230E+02 .6912000E+08 .5773503E+02	
.2886751E+00 .4665600E+05 .3600000E+02 .1728000E+04 .7200000E+04 .3456000E+06 .1440000E+07 .4665600E+05	
.7200000E+04 .1440000E+07 .9331200E+07 .2943000E+00	
CASE NUMBER	2
557	
.1837117E+01 .3674235E+03 .2000000E+03 .2449490E+03 .1224745E+01 .5103301E+00 .4409082E+02 .1728000E+04	
.2886751E+00 .6613622E+02 .4000000E+05 .7348469E+05 .4665600E+05 .1039230E+02 .6912000E+08 .5773503E+02	
.3535534E+00 .5714170E+05 .3600000E+02 .1374539E+04 .1322724E+05 .3456000E+06 .5091169E+06 .1649539E+05	
.8818163E+04 .1763633E+07 .9331200E+07 .3178000E+00	
CASE NUMBER	2
558	
.2023858E+01 .4047715E+03 .2000000E+03 .2529822E+03 .1264911E+01 .5842374E+00 .4553680E+02 .1728000E+04	
.2886751E+00 .7285888E+02 .4000000E+05 .8095431E+05 .4665600E+05 .1039230E+02 .6912000E+08 .5773503E+02	
.3651484E+00 .5901569E+05 .3600000E+02 .3497226E+04 .1457178E+05 .3456000E+06 .2914355E+07 .9442510E+05	
.9107360E+04 .1821472E+07 .9331200E+07 .3227000E+00	
CASE NUMBER	2
559	
.2216529E+01 .4433058E+03 .2000000E+03 .2607681E+03 .1303840E+01 .6398568E+00 .4693826E+02 .1728000E+04	
.2886751E+00 .7979504E+02 .4000000E+05 .8866115E+05 .4665600E+05 .1039230E+02 .6912000E+08 .5773503E+02	
.3763863E+00 .6083198E+05 .3600000E+02 .3830162E+04 .1595901E+05 .3456000E+06 .3191801E+07 .1034144E+06	
.9387651E+04 .1977530E+07 .9331200E+07 .3278000E+00	
CASE NUMBER	2
560	
.2414953E+01 .4229907E+03 .2000000E+03 .2683282E+03 .1341641E+01 .6971370E+00 .4829907E+02 .1728000E+04	
.2886751E+00 .8693832E+02 .4000000E+05 .9659814E+05 .4665600E+05 .1039230E+02 .6912000E+08 .5773503E+02	
.3872983E+00 .6259559E+05 .3600000E+02 .4173040E+04 .1738766E+05 .3456000E+06 .3477533E+07 .1126721E+06	
.9659814E+04 .1931963E+07 .9331200E+07 .3328000E+00	

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	561	GROUP NUMBER	2				
.2618969E+01	.5237939E+03	.2000000E+03	.2756810E+03	.1378405E+01	.7560313E+00	.4962258E+02	.1728000E+04
.2886751E+00	.9428289E+02	.4000000E+05	.1047588E+06	.4665600E+05	.1039230E+02	.6912000E+08	.5773503E+02
.3979112E+00	.6431086E+05	.3600000E+02	.4525575E+04	.1885658E+05	.3456000E+06	.3771316E+07	.1221906E+06
.9924515E+04	.1984903E+07	.9331200E+07	.3379000E+00				
CASE NUMBER	562	GROUP NUMBER	2				
.2828427E+01	.5556854E+03	.2000000E+03	.2828427E+03	.1414214E+01	.8164966E+00	.50911169E+02	.1728000E+04
.2886751E+00	.1018234E+03	.4000000E+05	.1131371E+06	.4665600E+05	.1039230E+02	.6912000E+08	.5773503E+02
.4082483E+00	.6598155E+05	.3600000E+02	.4887522E+04	.2036468E+05	.3456000E+06	.4072935E+07	.1319631E+06
.1018234E+05	.2036468E+07	.9331200E+07	.3432000E+00				
CASE NUMBER	563	GROUP NUMBER	2				
0.	0.	.2000000E+030.	0.	0.	0.	.3048625E+04	
.2626129E+000.		.4000000E+050.		.4665600E+05	.9454063E+01	.1219450E+09	.5252257E+02
0.	0.	.3600000E+020.	0.	0.	.6097250E+060.	0.	
0.	0.	.9331200E+07	.2675000E+00				
CASE NUMBER	564	GROUP NUMBER	2				
.353534E+00	.7071058E+02	.2000000E+03	.1414214E+03	.7071058E+00	.9284767E-01	.2545584E+02	.3048625E+04
.2626129E+00	.1277292E+02	.4000000E+02	.1414214E+05	.4665600E+05	.9454063E+01	.1219450E+09	.5252257E+02
.1856953E+00	.3299077E+05	.3600000E+02	.1077852E+04	.2545584E+04	.6097250E+06	.50911169E+06	.1649539E+05
.50911169E+04	.1018234E+07	.9331200E+07	.2875000E+00				
CASE NUMBER	565	GROUP NUMBER	2				
.1000000E+01	.2000000E+03	.2000000E+03	.1000000E+03	.1000000E+01	.2626129E+00	.3600000E+02	.3048625E+04
.2626129E+00	.3600000E+02	.4000000E+05	.4000000E+05	.4665600E+05	.9454063E+01	.1219450E+09	.5252257E+02
.2626129E+00	.4665600E+05	.3600000E+02	.3048625E+04	.7200000E+04	.6097250E+06	.1440000E+07	.4665600E+05
.7200000E+04	.1440000E+07	.9331200E+07	.3115000E+00				
CASE NUMBER	566	GROUP NUMBER	2				
.1153690E+01	.2207179E+03	.2000000E+03	.2097618E+03	.1048809E+01	.3029738E+00	.3775712E+02	.3048625E+04
.2626129E+00	.4153243E+02	.4000000E+05	.4614759E+05	.4665600E+05	.9454063E+01	.1219450E+09	.5252257E+02
.2754307E+00	.4893323E+05	.3600000E+02	.3517167E+04	.8306566E+04	.6097250E+06	.1661313E+07	.5382655E+05
.7551424E+04	.1510285E+07	.9331200E+07	.3162000E+00				
CASE NUMBER	567	GROUP NUMBER	2				
.1314534E+01	.2629068E+03	.2000000E+03	.2190890E+03	.1095445E+01	.3452136E+00	.3943602E+02	.3048625E+04
.2626129E+00	.4732323E+02	.4000000E+05	.5258137E+05	.4665600E+05	.9454063E+01	.1219450E+09	.5252257E+02
.2876780E+00	.5110909E+05	.3600000E+02	.4007522E+04	.9464646E+04	.6097250E+06	.1892929E+07	.5133090E+05
.7887205E+04	.1577441E+07	.9331200E+07	.3211000E+00				
CASE NUMBER	568	GROUP NUMBER	2				
.1482228E+01	.2964456E+03	.2000000E+03	.2280351E+03	.1140175E+01	.3892522E+00	.4104632E+02	.3048625E+04
.2626129E+00	.5336021E+02	.4000000E+05	.5928912E+05	.4665600E+05	.9454063E+01	.1219450E+09	.5252257E+02
.2994247E+00	.5319602E+05	.3600000E+02	.4518757E+04	.1067204E+05	.6097250E+06	.2134408E+07	.6915483E+05
.8209263E+04	.1641853E+07	.9331200E+07	.3260000E+00				

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	569	GROUP NUMBER	1				
0.	0.	-.5000000E+020.	0.	0.	0.	.3430000E+03	
.3779645E+000.		.2500000E+040.	-.5832000E+04	-.5803361E+01	.8575000E+06	.1889822E+02	
0.	0.	-.1800000E+020.	0.	0.	-.1715000E+050.	0.	
0.	0.	.2916000E+06	.3156000E+00				
CASE NUMBER	570	GROUP NUMBER	1				
.3985559E+00	.-1938208E+02	.-5000000E+02	.-3679900E+02	.7359801E+00	.1324764E+02	.3430000E+03	
.3779645E+00	.-7175806E+01	.-2500000E+04	.-9866398E+03	.-5832000E+04	.-6803361E+01	.-8575000E+06	.-1889822E+02
.2781742E+00	.-4292236E+04	.-1800000E+02	.-1367390E+03	.-3587903E+03	.-1715000E+05	.-1793952E+05	.-2324961E+04
.6623821E+03	.-3111910E+05	.-2916000E+06	.-3465000E+00				
CASE NUMBER	571	GROUP NUMBER	1				
.1054047E+01	.-5270235E+02	.-5000000E+02	.-5088502E+02	.1017700E+01	.3983923E+00	.1831861E+02	.3430000E+03
.3779645E+00	.-4682785E+02	.-2500000E+04	.-2635117E+04	.-5832000E+04	.-6803361E+01	.-8575000E+06	.-1889822E+02
.3846546E+00	.-5935229E+04	.-1800000E+02	.-3615381E+03	.-9486423E+03	.-1715000E+05	.-4743211E+05	.-6147202E+04
.9159304E+03	.-4579652E+05	.-2916000E+06	.-3750000E+00				
CASE NUMBER	572	GROUP NUMBER	1				
.1837117E+01	.-19185587E+02	.-5000000E+02	.-6123724E+02	.-1224745E+01	.-6943651E+00	.-2204541E+02	.3430000E+03
.3779645E+00	.-3306811E+02	.-2500000E+04	.-4532793E+04	.-5832000E+04	.-6803361E+01	.-8575000E+06	.-1889822E+02
.4629100E+00	.-7142712E+04	.-1800000E+02	.-6301312E+03	.-1653406E+04	.-1715000E+05	.-8267028E+05	.-1071407E+05
.11022270E+04	.-5511352E+05	.-2916000E+06	.-3965000E+00				
CASE NUMBER	573	GROUP NUMBER	1				
.2828427E+01	.-1414214E+03	.-5000000E+02	.-7071058E+02	.-1414214E+01	.-1069045E+01	.-2545584E+02	.3430000E+03
.3779645E+00	.-50911169E+02	.-2500000E+04	.-7071058E+04	.-5832000E+04	.-6803361E+01	.-8575000E+06	.-1889822E+02
.5345225E+00	.-8247693E+04	.-1800000E+02	.-9701505E+03	.-2545584E+04	.-1715000E+05	.-1272792E+06	.-1649539E+05
.1272792E+04	.-63632961E+05	.-2916000E+06	.-4116000E+00				
CASE NUMBER	574	GROUP NUMBER	1				
.3952847E+01	.-1976424E+03	.-5000000E+02	.-7905694E+02	.-1581139E+01	.-1494036E+01	.-2846505E+02	.3430000E+03
.3779645E+00	.-7115125E+02	.-2500000E+04	.-9882118E+04	.-5832000E+04	.-6803361E+01	.-8575000E+06	.-1889822E+02
.5976143E+00	.-9221202E+04	.-1800000E+02	.-1355827E+04	.-3557562E+04	.-1715000E+05	.-1778781E+06	.-2305300E+05
.1423025E+04	.-7115125E+05	.-2916000E+06	.-4374000E+00				
CASE NUMBER	575	GROUP NUMBER	1				
.3196152E+01	.-2598075E+03	.-5000000E+02	.-8660254E+02	.-1732051E+01	.-1563951E+01	.-3117691E+02	.3430000E+03
.3779645E+00	.-9353074E+02	.-2500000E+04	.-1299038E+05	.-5832000E+04	.-6803361E+01	.-8575000E+06	.-1889822E+02
.6546537E+00	.-1010132E+05	.-1800000E+02	.-1782280E+04	.-4676537E+04	.-1715000E+05	.-2338269E+06	.-3030396E+05
.1558846E+04	.-7794229E+05	.-2916000E+06	.-4734000E+00				
CASE NUMBER	576	GROUP NUMBER	1				
.6547900E+01	.-3273950E+03	.-5000000E+02	.-9354143E+02	.-1870829E+01	.-2474874E+01	.-3367492E+02	.3430000E+03
.3779645E+00	.-1178622E+03	.-2500000E+04	.-1636975E+05	.-5832000E+04	.-6803361E+01	.-8575000E+06	.-1889822E+02
.7071068E+00	.-1091067E+05	.-1800000E+02	.-2245930E+04	.-5893110E+04	.-1715000E+05	.-2946555E+06	.-3818736E+05
.1683746E+04	.-8413729E+05	.-2916000E+06	.-5211000E+00				

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	GROUP NUMBER
.577	
.8000000E+01-.4000000E+03-.5000000E+02-.1000000E+03 .2000000E+01 .3023716E+01-.3600000E+02 .3430000E+03	
.3775645E+00-.1440000E+03 .2500000E+04 .2000000E+05-.5832000E+04-.6803361E+01 .8575000E+06-.1889822E+02	
.7559289E+00-.1156400E+05-.1800000E+02 .2744000E+04 .7200000E+04-.1715000E+05-.3600000E+06-.4665600E+05	
.1800000E+04-.9000000E+05 .2916000E+06 .5474000E+00	
CASE NUMBER	GROUP NUMBER
.578	
.8301867E+01-.4150934E+03-.5000000E+02-.1012423E+03 .2024846E+01 .3137811E+01-.3644722E+02 .3430000E+03	
.3779645E+00-.1494336E+03 .2500000E+04 .2075467E+05-.5832000E+04-.6803361E+01 .8575000E+06-.1889822E+02	
.7653197E+00-.1180890E+05-.1800000E+02 .2847540E+04 .7471681E+04-.1715000E+05-.3735840E+06-.4841649E+05	
.1822381E+04-.9111806E+05 .2916000E+06 .5496000E+00	
CASE NUMBER	GROUP NUMBER
.579	
.8607439E+01-.4303719E+03-.5000000E+02-.1024695E+03 .2049390E+01 .3253305E+01-.3688902E+02 .3430000E+03	
.3779645E+00-.1549339E+03 .2500000E+04 .2151860E+05-.5832000E+04-.6803361E+01 .8575000E+06-.1889822E+02	
.7745967E+00-.1195204E+05-.1800000E+02 .2952351E+06 .7746695E+04-.1715000E+05-.3873347E+06-.5019858E+05	
.1844451E+04-.9222256E+05 .2916000E+06 .5502000E+00	
CASE NUMBER	GROUP NUMBER
.580	
.8916670E+01-.4458305E+03-.5000000E+02-.1036822E+03 .2073644E+01 .3370184E+01-.3732559E+02 .3430000E+03	
.3779645E+00-.1605001E+03 .2500000E+04 .2209167E+05-.5832000E+04-.6803361E+01 .8575000E+06-.1889822E+02	
.7837638E+00-.1209349E+05-.1800000E+02 .3058418E+04 .8025003E+04-.1715000E+05-.4012501E+06-.5200202E+05	
.1866280E+04-.9331399E+05 .2916000E+06 .5505000E+00	
CASE NUMBER	GROUP NUMBER
.581	
.9229518E+01-.4614759E+03-.5000000E+02-.1048809E+03 .2097618E+01 .3488430E+01-.3775712E+02 .3430000E+03	
.3779645E+00-.1661131E+03 .2500000E+04 .2307379E+05-.5832000E+04-.6803361E+01 .8575000E+06-.1889822E+02	
.7928250E+00-.1223311E+05-.1800000E+02 .3165725E+04 .8306566E+04-.1715000E+05-.4153283E+06-.5382655E+05	
.1887856E+04-.9439280E+05 .2916000E+06 .5543000E+00	
CASE NUMBER	GROUP NUMBER
.582	
.9545942E+01-.4772971E+03-.5000000E+02-.1060660E+03 .2121320E+01 .3608027E+01-.3818377E+02 .3430000E+03	
.3779645E+00-.1718269E+03 .2500000E+04 .2386485E+05-.5832000E+04-.6803361E+01 .8575000E+06-.1889822E+02	
.8017837E+00-.1237154E+05-.1800000E+02 .3274258E+04 .8591347E+04-.1715000E+05-.4295674E+06-.5567193E+05	
.1909188E+04-.9545942E+05 .2916000E+06 .5598000E+00	
CASE NUMBER	GROUP NUMBER
.583	
0. 0. -.5000000E+020. 0. 0. 0. .7290000E+03	
.3333333E+000. 2500000E+040. 5832000E+04-.6803361E+01 .8575000E+06-.1889822E+02	
0. 0. -.1800000E+020. 0. 0. .3645000E+050. 0.	
0. 0. .2916000E+06 .3165000E+00	
CASE NUMBER	GROUP NUMBER
.584	
.3535534E+00-.1767767E+02-.5000000E+02-.3535534E+02 .7071068E+00 .1178511E+00-.1272792E+02 .7290000E+03	
.3333333E+00-.6363961E+01 .2500000E+04 .8838835E+03-.5832000E+04-.6000000E+01 .1822500E+07-.1666667E+02	
.2357023E+00-.4123847E+04-.1800000E+02 .2577404E+03 .3181981E+03-.3645000E+05-.1590990E+05-.2061923E+04	
.6363961E+03-.3181981E+05 .2916000E+06 .3504000E+00	

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	GROUP NUMBER
.585	
.1000000E+01-.5000000E+02-.5000000E+02-.5000000E+02 .1000000E+01 .3033333E+00-.1800000E+02 .7290000E+03	
.3333333E+00-.1800000E+02 .2500000E+04 .2500000E+04-.5832000E+04-.6000000E+01 .1822500E+07-.1666667E+02	
.3333333E+00-.5832000E+04-.1800000E+02 .7290000E+03 .9000000E+03-.3645000E+05-.4500000E+05-.5832000E+04	
.9000000E+03-.4500000E+05 .2916000E+06 .3818000E+00	
CASE NUMBER	GROUP NUMBER
.586	
.1837117E+01-.5058557E+02-.5000000E+02-.5123724E+02 .1224745E+01 .6123724E+01-.2204541E+02 .7290000E+03	
.3333333E+00-.3306811E+02 .2500000E+04 .4592793E+04-.5832000E+04-.6000000E+01 .1822500E+07-.1666667E+02	
.4082483E+00-.7142712E+04-.1800000E+02 .1339259E+04 .1653406E+04-.3645000E+05-.8267028E+05-.1071407E+05	
.1102270E+04-.5511352E+05 .2916000E+06 .4050000E+00	
CASE NUMBER	GROUP NUMBER
.587	
.2828427E+01-.1414214E+03-.5000000E+02-.7071068E+02 .1414214E+01 .9428090E+00-.2545584E+02 .7290000E+03	
.3333333E+00-.5091169E+02 .2500000E+04 .7071068E+04-.5832000E+04-.6000000E+01 .1822500E+07-.1666667E+02	
.4711045E+00-.8247693E+04-.1800000E+02 .2061923E+04 .2545584E+04-.3645000E+05-.1272792E+06-.1649539E+05	
.1272792E+04-.6363961E+05 .2916000E+06 .4356000E+00	
CASE NUMBER	GROUP NUMBER
.588	
.3952847E+01-.19761424E+03-.5000000E+02-.7905694E+02 .1581139E+01 .1317616E+01-.2846050E+02 .7290000E+03	
.3333333E+00-.7115125E+02 .2500000E+04 .9882118E+04-.5832000E+04-.6000000E+01 .1822500E+07-.1666667E+02	
.5270463E+00-.9221202E+04-.1800000E+02 .2881626E+04 .3557562E+04-.3645000E+05-.1778781E+06-.2305300E+05	
.1423025E+04-.7115125E+05 .2916000E+06 .4701000E+00	
CASE NUMBER	GROUP NUMBER
.589	
.5196152E+01-.2598076E+03-.5000000E+02-.8660254E+02 .1732051E+01 .1732051E+01-.3117691E+02 .7290000E+03	
.3333333E+00-.9353074E+02 .2500000E+04 .1299038E+05-.5832000E+04-.6000000E+01 .1822500E+07-.1666667E+02	
.5773503E+00-.1010132E+05-.1800000E+02 .3787995E+04 .4676537E+04-.3645000E+05-.2338269E+06-.3030396E+05	
.1558846E+04-.7794229E+05 .2916000E+06 .5100000E+00	
CASE NUMBER	GROUP NUMBER
.590	
.6547900E+01-.3273950E+03-.5000000E+02-.9486833E+02 .18970829E+01 .2182633E+01-.3367492E+02 .7290000E+03	
.3333333E+00-.1178622E+03 .2500000E+04 .1636975E+05-.5832000E+04-.6000000E+01 .1822500E+07-.1666667E+02	
.62336096E+00-.10910567E+05-.1800000E+02 .4773419E+04 .5893110E+04-.3645000E+05-.2946555E+06-.3818736E+05	
.1683746E+04-.8418729E+05 .2916000E+06 .5482000E+00	
CASE NUMBER	GROUP NUMBER
.591	
.6830520E+01-.3415260E+03-.5000000E+02-.9486833E+02 .1897367E+01 .2275840E+01-.3415260E+02 .7290000E+03	
.3333333E+00-.1228494E+03 .2500000E+04 .1707630E+05-.5832000E+04-.6000000E+01 .1822500E+07-.1666667E+02	
.6324555E+00-.1106544E+05-.1800000E+02 .4979449E+04 .6147468E+04-.3645000E+05-.3073734E+06-.3983559E+05	
.1707630E+04-.8538150E+05 .2916000E+06 .5495000E+00	
CASE NUMBER	GROUP NUMBER
.592	
.7117092E+01-.3558546E+03-.5000000E+02-.9617692E+02 .1923538E+01 .2372364E+01-.3462369E+02 .7290000E+03	
.3333333E+00-.1281077E+03 .2500000E+04 .1779273E+05-.5832000E+04-.6000000E+01 .1822500E+07-.1666667E+02	
.6411795E+00-.1121808E+05-.1800000E+02 .5183360E+04 .6405383E+04-.3645000E+05-.3202691E+06-.4150688E+05	
.1731185E+04-.8655923E+05 .2916000E+06 .5500000E+00	

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 593 GROUP NUMBER 1
 .7407564E+01-.3703782E+03-.5000000E+02-.9746794E+02 .1949359E+01 .2469188E+01-.3508846E+02 .7290000E+03
 .3333333E+00-.13333361E+03 .2500000E+04 .1851891E+05-.5832000E+04 .6000000E+01 .1822500E+07-.1666667E+02
 .6457863E+00-.11368666E+05-.1800000E+02 .5400114E+04 .6666807E+04-.3645000E+05-.3333404E+06-.4320091E+05
 .1754423E+04-.8772115E+05 .2916000E+06 .5507000E+00

CASE NUMBER 594 GROUP NUMBER 1
 .7701883E+01-.3850941E+03-.5000000E+02-.9874209E+02 .1974842E+01 .2567294E+01-.3554715E+02 .7290000E+03
 .3333333E+00-.1386339E+03 .2500000E+04 .1925471E+05-.5832000E+04 .6000000E+01 .1822500E+07-.1666667E+02
 .6582806E+00-.1151728E+05-.1800000E+02 .5614673E+04 .6931695E+04-.3645000E+05-.3465847E+06-.4491738E+05
 .1777358E+04-.8886788E+05 .2916000E+06 .5555000E+00

CASE NUMBER 595 GROUP NUMBER 1
 .8000000E+01-.4000000E+03-.5000000E+02-.1000000E+03 .2000000E+01 .2566667E+01-.3600000E+02 .7290000E+03
 .3333333E+00-.1440000E+03 .2500000E+04 .2000000E+05-.5832000E+04 .6000000E+01 .1822500E+07-.1666667E+02
 .6666667E+00-.1166400E+05-.1800000E+02 .5832000E+04 .7200000E+04-.3645000E+05-.3600000E+06-.4665600E+05
 .1800000E+04-.9000000E+05 .2916000E+06 .5611000E+00

CASE NUMBER 596 GROUP NUMBER 1
 0. 0. -.5000000E+020. 0. 0. .1000000E+04
 .3162278E+000. .2500000E+040. -.5832000E+04-.5692100E+01 .2500000E+07-.1581139E+02
 0. 0. -.1800000E+020. 0. .5000000E+050. 0.
 0. 0. .2916000E+06 .3200000E+00

CASE NUMBER 597 GROUP NUMBER 1
 .3535534E+00-.1787757E+02-.5000000E+02-.3535534E+02 .7071068E+00 .1118034E+00-.1272792E+02 .1000000E+04
 .3162278E+00-.6363961E+01 .2500000E+04 .8838835E+03-.5832000E+04-.5692100E+01 .2500000E+07-.1581139E+02
 .2236068E+00-.4123847E+04-.1800000E+02 .3535534E+03 .3181981E+03-.5000000E+05-.1590990E+05-.2061923E+04
 .6363961E+03-.3181981E+05 .2916000E+06 .3545000E+00

CASE NUMBER 598 GROUP NUMBER 1
 .1000000E+01-.5000000E+02-.5000000E+02-.5000000E+02 .1000000E+01 .3162278E+00-.1800000E+02 .1000000E+04
 .3162278E+00-.1800000E+02 .2500000E+04 .2500000E+04-.5832000E+04-.5692100E+01 .2500000E+07-.1581139E+02
 .3162278E+00-.5832000E+04-.1800000E+02 .1000000E+04 .9000000E+03-.5000000E+05-.4500000E+05-.5832000E+04
 .9000000E+03-.4500000E+05 .2916000E+06 .3882000E+00

CASE NUMBER 599 GROUP NUMBER 1
 .1837117E+01-.9185587E+02-.5000000E+02-.6123724E+02 .1224745E+01 .5809475E+00-.2204541E+02 .1000000E+04
 .3162278E+00-.3306811E+02 .2500000E+04 .4592793E+04-.5832000E+04-.5692100E+01 .2500000E+07-.1581139E+02
 .3872983E+00-.7142712E+04-.1800000E+02 .1837117E+04 .1653406E+04-.5000000E+05-.8267028E+05-.1071407E+05
 .1102270E+04-.5511352E+05 .2916000E+06 .4170000E+00

CASE NUMBER 600 GROUP NUMBER 1
 .2828427E+01-.1414214E+03-.5000000E+02-.7071068E+02 .1414214E+01 .8944272E+00-.2545584E+02 .1000000E+04
 .3162278E+00-.5091169E+02 .2500000E+04 .7071068E+04-.5832000E+04-.5692100E+01 .2500000E+07-.1581139E+02
 .4472136E+00-.8247693E+04-.1800000E+02 .2828427E+04 .2545584E+04-.5000000E+05-.1272792E+06-.1649539E+05
 .1272792E+04-.6363961E+05 .2916000E+06 .4487000E+00

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 601 GROUP NUMBER 1
 .3952847E+01-.1976424E+03-.5000000E+02-.7905694E+02 .15811139E+01 .1250000E+01-.2846050E+02 .1000000E+04
 .3162278E+00-.7115125E+02 .2500000E+04 .9882118E+04-.5832000E+04-.5692100E+01 .2500000E+07-.15811139E+02
 .5000000E+00-.9221202E+04-.1800000E+02 .3952847E+04 .3557562E+04-.5000000E+05-.1778781E+06-.2305300E+05
 .1423025E+04-.7115125E+05 .2916000E+06 .4808000E+00

CASE NUMBER 602 GROUP NUMBER 1
 .5196152E+01-.2598076E+03-.5000000E+02-.8660254E+02 .1732051E+01 .1643168E+01-.3117691E+02 .1000000E+04
 .3162278E+00-.9353074E+02 .2500000E+04 .1299038E+05-.5832000E+04-.5692100E+01 .2500000E+07-.15811139E+02
 .5477226E+00-.1010132E+05-.1800000E+02 .5196152E+04 .4676537E+04-.5000000E+05-.2338269E+06-.3030396E+05
 .1558846E+04-.7794229E+05 .2916000E+06 .5217000E+00

CASE NUMBER 603 GROUP NUMBER 1
 .6547900E+01-.3273950E+03-.5000000E+02-.9354143E+02 .1870829E+01 .2070628E+01-.3367492E+02 .1000000E+04
 .3162278E+00-.1178622E+03 .2500000E+04 .1636975E+05-.5832000E+04-.5692100E+01 .2500000E+07-.15811139E+02
 .5916080E+00-.1091067E+05-.1800000E+02 .6547900E+04 .5853110E+04-.5000000E+05-.2946555E+06-.3818736E+05
 .1683746E+04-.8418729E+05 .2916000E+06 .5500000E+00

CASE NUMBER 604 GROUP NUMBER 1
 .6863020E+01-.3415260E+03-.5000000E+02-.9486823E+02 .1897367E+01 .2160000E+01-.3415260E+02 .1000000E+04
 .3162278E+00-.1229494E+03 .2500000E+04 .5832000E+04-.5692100E+01 .2500000E+07-.15811139E+02
 .6000000E+00-.1106544E+05-.1800000E+02 .68303520E+04 .6147468E+04-.5000000E+05-.3073734E+06-.3983559E+05
 .1707630E+04-.8538150E+05 .2916000E+06 .5566000E+00

CASE NUMBER 605 GROUP NUMBER 1
 .7111092E+01-.35058546E+03-.5000000E+02-.9617692E+02 .1923538E+01 .2342477E+01-.3462369E+02 .1000000E+04
 .3162278E+00-.1281077E+03 .2500000E+04 .1779273E+05-.5832000E+04-.5692100E+01 .2500000E+07-.15811139E+02
 .6082763E+00-.1121808E+05-.1800000E+02 .7117092E+04 .6405383E+04-.5000000E+05-.3202691E+06-.4150688E+05
 .1731185E+04-.8655923E+05 .2916000E+06 .5566000E+00

CASE NUMBER 606 GROUP NUMBER 1
 .7407564E+01-.3703782E+03-.5000000E+02-.9746794E+02 .1949359E+01 .2342477E+01-.3508846E+02 .1000000E+04
 .3162278E+00-.13333361E+03 .2500000E+04 .1851891E+05-.5832000E+04-.5692100E+01 .2500000E+07-.15811139E+02
 .6164414E+00-.11368666E+05-.1800000E+02 .7407564E+04 .6666807E+04-.5000000E+05-.3333404E+06-.4320091E+05
 .1754423E+04-.8772115E+05 .2916000E+06 .5629000E+00

CASE NUMBER 607 GROUP NUMBER 1
 0. 0. -.5000000E+020. 0. 0. .1728000E+04
 .2886751E+000. .2500000E+040. -.5832000E+04-.5196152E+01 .4320000E+07-.1443376E+02
 0. 0. -.1800000E+020. 0. .8640000E+050. 0.
 0. 0. .2916000E+06 .3346000E+00

CASE NUMBER 608 GROUP NUMBER 1
 .3535534E+00-.1767757E+02-.5000000E+02-.3535534E+02 .7071068E+00 .1020621E+00-.1272792E+02 .1728000E+04
 .2886751E+00-.6363961E+01 .2500000E+04 .8838835E+03-.5832000E+04-.569152E+01 .4320000E+07-.1443376E+02
 .2041241E+00-.4123847E+04-.1800000E+02 .6109403E+03 .3181981E+03-.8640000E+05-.1590990E+05-.2061923E+04
 .6363961E+03-.3181981E+05 .2916000E+06 .3707000E+00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 605

		GROUP NUMBER	1	
.1000000E+01 - .5000000E+02 - .5000000E+02 - .5000000E+02	.1000000E+01 - .2886751E+00 - .1800000E+02 - .2500000E+04	.2886751E+00 - .1800000E+02 - .2500000E+04 - .2500000E+04	.1000000E+01 - .2886751E+00 - .1800000E+02 - .2500000E+04	.1000000E+01 - .2886751E+00 - .1800000E+02 - .2500000E+04
.2500000E+04 - .5832000E+04 - .9000000E+03 - .8640000E+05 - .4500000E+05 - .5832000E+04	.5832000E+04 - .5196152E+01 - .4320000E+07 - .1443376E+02			
.9000000E+03 - .4500000E+05 - .2916000E+06 - .4078000E+00	.4078000E+00	.4078000E+00	.4078000E+00	.4078000E+00

CASE NUMBER 610

		GROUP NUMBER	1	
.1837117E+01 - .14145587E+02 - .5000000E+02 - .6123724E+02	.1224745E+01 - .5303301E+00 - .2204541E+02 - .1728000E+04			
.2886751E+00 - .3306811E+02 - .2500000E+04 - .4592793E+04 - .5832000E+04 - .1728000E+04	.5832000E+04 - .5196152E+01 - .4320000E+07 - .1443376E+02			
.3535534E+00 - .7142712E+04 - .1800000E+02 - .3174539E+04 - .1653406E+04 - .8640000E+05 - .8267028E+05 - .1071407E+05	.1653406E+04 - .8640000E+05 - .8267028E+05 - .1071407E+05			
.1102270E+04 - .5511352E+05 - .2916000E+06 - .4378000E+00	.4378000E+00	.4378000E+00	.4378000E+00	.4378000E+00

CASE NUMBER 611

		GROUP NUMBER	1	
.1837117E+01 - .1414214E+03 - .5000000E+02 - .7071068E+02	.1414214E+01 - .8164956E+00 - .2545584E+02 - .1728000E+04			
.2886751E+00 - .5091169E+02 - .2500000E+04 - .7071068E+04 - .5832000E+04 - .1728000E+04	.5832000E+04 - .5196152E+01 - .4320000E+07 - .1443376E+02			
.4082483E+00 - .8247693E+04 - .1800000E+02 - .4887522E+04 - .2545584E+04 - .8640000E+05 - .1272792E+06 - .1649539E+05	.2545584E+04 - .8640000E+05 - .1272792E+06 - .1649539E+05			
.1272792E+04 - .6363956E+05 - .2916000E+06 - .4672000E+00	.4672000E+00	.4672000E+00	.4672000E+00	.4672000E+00

CASE NUMBER 612

		GROUP NUMBER	1	
.3952847E+01 - .1976424E+03 - .5000000E+02 - .7050569E+02	.1581139E+01 - .1141089E+01 - .2846050E+02 - .1728000E+04			
.2886751E+00 - .7115125E+02 - .2500000E+04 - .9882118E+04 - .5832000E+04 - .1728000E+04	.5832000E+04 - .5196152E+01 - .4320000E+07 - .1443376E+02			
.4564355E+00 - .9221202E+04 - .1800000E+02 - .6830520E+04 - .3557562E+04 - .8640000E+05 - .1778781E+06 - .2305300E+05	.3557562E+04 - .8640000E+05 - .1778781E+06 - .2305300E+05			
.1423025E+04 - .7115125E+05 - .2916000E+06 - .5026000E+00	.5026000E+00	.5026000E+00	.5026000E+00	.5026000E+00

CASE NUMBER 613

		GROUP NUMBER	1	
.5196152E+01 - .2598076E+03 - .5000000E+02 - .8680254E+02	.1732051E+01 - .1500000E+01 - .3117691E+02 - .1728000E+04			
.2886751E+00 - .9353074E+02 - .2500000E+04 - .1293038E+05 - .5832000E+04 - .1728000E+04	.5832000E+04 - .5196152E+01 - .4320000E+07 - .1443376E+02			
.5000000E+00 - .1010132E+05 - .1800000E+02 - .8978951E+04 - .4676537E+04 - .8640000E+05 - .2338269E+06 - .3030396E+05	.4676537E+04 - .8640000E+05 - .2338269E+06 - .3030396E+05			
.1558484E+04 - .7794229E+05 - .2916000E+06 - .5489000E+00	.5489000E+00	.5489000E+00	.5489000E+00	.5489000E+00

CASE NUMBER 614

		GROUP NUMBER	1	
.5458113E+01 - .2729057E+03 - .5000000E+02 - .8803408E+02	.1760682E+01 - .1575622E+01 - .3169227E+02 - .1728000E+04			
.2886751E+00 - .9824604E+02 - .2500000E+04 - .1364528E+05 - .5832000E+04 - .1728000E+04	.5832000E+04 - .5196152E+01 - .4320000E+07 - .1443376E+02			
.5082656E+00 - .1026830E+05 - .1800000E+02 - .9431620E+04 - .4912302E+04 - .8640000E+05 - .2456151E+06 - .3183172E+05	.4912302E+04 - .8640000E+05 - .2456151E+06 - .3183172E+05			
.1584614E+04 - .7923068E+05 - .2916000E+06 - .5489000E+00	.5489000E+00	.5489000E+00	.5489000E+00	.5489000E+00

CASE NUMBER 615

		GROUP NUMBER	1	
.5724334E+01 - .2862167E+03 - .5000000E+02 - .8944272E+02	.1788854E+01 - .1652473E+01 - .3219938E+02 - .1728000E+04			
.2886751E+00 - .1030380E+03 - .2500000E+04 - .1431084E+05 - .5832000E+04 - .1728000E+04	.5832000E+04 - .5196152E+01 - .4320000E+07 - .1443376E+02			
.5082656E+00 - .1079055E+03 - .2500000E+04 - .1458687E+05 - .5832000E+04 - .1728000E+04	.5832000E+04 - .5196152E+01 - .4320000E+07 - .1443376E+02			
.1609969E+04 - .8049845E+05 - .2916000E+06 - .5507000E+00	.5507000E+00	.5507000E+00	.5507000E+00	.5507000E+00

CASE NUMBER 616

		GROUP NUMBER	1	
.5994748E+01 - .2987374E+03 - .5000000E+02 - .9082951E+02	.1816590E+01 - .1730535E+01 - .3269862E+02 - .1728000E+04			
.2886751E+00 - .1079055E+03 - .2500000E+04 - .1458687E+05 - .5832000E+04 - .1728000E+04	.5832000E+04 - .5196152E+01 - .4320000E+07 - .1443376E+02			
.5244044E+00 - .1059435E+05 - .1800000E+02 - .1035892E+05 - .5395273E+04 - .8640000E+05 - .2697636E+06 - .3496137E+05	.5395273E+04 - .8640000E+05 - .2697636E+06 - .3496137E+05			
.1634931E+04 - .8174856E+05 - .2916000E+06 - .5547000E+00	.5547000E+00	.5547000E+00	.5547000E+00	.5547000E+00

CASE NUMBER 617

		GROUP NUMBER	1	
.3162901E+01 - .31314645E+03 - .5000000E+02 - .9219544E+02	.1843909E+01 - .1809788E+01 - .3319036E+02 - .1728000E+04			
.2886751E+00 - .1128472E+03 - .2500000E+04 - .1567323E+05 - .5832000E+04 - .1728000E+04	.5832000E+04 - .5196152E+01 - .4320000E+07 - .1443376E+02			
.5322906E+00 - .1075368E+05 - .1800000E+02 - .1083333E+05 - .5642361E+04 - .8640000E+05 - .2821181E+06 - .3656250E+05	.5642361E+04 - .8640000E+05 - .2821181E+06 - .3656250E+05			
.1659518E+04 - .8297590E+05 - .2916000E+06 - .5608000E+00	.5608000E+00	.5608000E+00	.5608000E+00	.5608000E+00

CASE NUMBER 618

		GROUP NUMBER	1	
0.	0.	0.	0.	0.
.2626129E+000.	.2500000E+040.	.0.	.0.	.3048625E+04
0.	0.	.1800000E+020.	.0.	.1524313E+060.
0.	0.	.2916000E+06.	.3455000E+000.	0.

CASE NUMBER 619

		GROUP NUMBER	1	
.3535534E+000 - .1767767E+02 - .5000000E+02 - .3535534E+02	.7071068E+00 - .9284757E+01 - .1272792E+02 - .3048625E+04	.7071068E+00 - .9284757E+01 - .1272792E+02 - .3048625E+04	.7071068E+00 - .9284757E+01 - .1272792E+02 - .3048625E+04	.7071068E+00 - .9284757E+01 - .1272792E+02 - .3048625E+04
.2626129E+000 - .6363961E+01 - .2500000E+04 - .5883835E+04 - .5832000E+04 - .1728000E+04	.5883835E+04 - .5196152E+01 - .4320000E+07 - .1443376E+02	.5883835E+04 - .5196152E+01 - .4320000E+07 - .1443376E+02	.5883835E+04 - .5196152E+01 - .4320000E+07 - .1443376E+02	.5883835E+04 - .5196152E+01 - .4320000E+07 - .1443376E+02
.1856953E+000 - .4123847E+04 - .1800000E+02 - .1077852E+04 - .3181981E+03 - .1524313E+06 - .1590990E+05 - .2061923E+04	.1077852E+04 - .3181981E+03 - .1524313E+06 - .1590990E+05 - .2061923E+04	.1077852E+04 - .3181981E+03 - .1524313E+06 - .1590990E+05 - .2061923E+04	.1077852E+04 - .3181	

NADC-77036-30

FRIDAY, JUL 2, 1976

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT
 CASE NUMBER 633 GROUP NUMBER 1
 .5196152E+010. 0. 0. .1732051E+01. .1963961E+01. .3117691E+02. .3430000E+03
 .3779645E+00-.9353074E+020. 0. 0. -.5832000E+04-.6803361E+010. 0.
 .6546537E+00-.1010132E+05-.1800000E+02. .1782280E+040. 0. 0. -.3030396E+05
 0. 0. 0. .4415000E+00
 CASE NUMBER 634 GROUP NUMBER 1
 .6547900E+010. 0. 0. .1870829E+01. .2474874E+01-.3367492E+02. .3430000E+03
 .3779645E+00-.1178622E+030. 0. 0. -.5832000E+04-.6803361E+010. 0.
 .7071068E+00-.1091067E+05-.1800000E+02. .2245930E+040. 0. 0. -.3818736E+05
 0. 0. 0. .4721000E+00
 CASE NUMBER 635 GROUP NUMBER 1
 .8000000E+010. 0. 0. .2000000E+01. .3022716E+01-.3600000E+02. .3430000E+03
 .3779645E+00-.1440000E+030. 0. 0. -.5832000E+04-.6803361E+010. 0.
 .7559289E+00-.1166400E+05-.1800000E+02. .2744000E+040. 0. 0. -.4665500E+05
 0. 0. 0. .5066000E+00
 CASE NUMBER 636 GROUP NUMBER 1
 .8301867E+010. 0. 0. .2024846E+01. .3137811E+01-.3644722E+02. .3430000E+03
 .3779645E+00-.1494336E+030. 0. 0. -.5832000E+04-.6803361E+010. 0.
 .7653197E+00-.1180890E+05-.1800000E+02. .2847540E+040. 0. 0. -.4841649E+05
 0. 0. 0. .5159000E+00
 CASE NUMBER 637 GROUP NUMBER 1
 .88607439E+010. 0. 0. .2049390E+01. .3253306E+01-.3688902E+02. .3430000E+03
 .3779645E+00-.1549339E+030. 0. 0. -.5832000E+04-.6803361E+010. 0.
 .7745967E+00-.1195204E+05-.1800000E+02. .2952351E+040. 0. 0. -.5019858E+05
 0. 0. 0. .5240000E+00
 CASE NUMBER 638 GROUP NUMBER 1
 .8916670E+010. 0. 0. .2073644E+01. .3370184E+01-.3732559E+02. .3430000E+03
 .3779645E+00-.1605001E+030. 0. 0. -.5832000E+04-.6803361E+010. 0.
 .78377638E+00-.1209349E+05-.1800000E+02. .3058418E+040. 0. 0. -.5200202E+05
 0. 0. 0. .5315000E+00
 CASE NUMBER 639 GROUP NUMBER 1
 .9229518E+010. 0. 0. .2097618E+01. .3488430E+01-.3775712E+02. .3430000E+03
 .3779645E+00-.1661313E+030. 0. 0. -.5832000E+04-.6803361E+010. 0.
 .7928250E+00-.1223331E+05-.1800000E+02. .3165725E+040. 0. 0. -.5382655E+05
 0. 0. 0. .5385000E+00
 CASE NUMBER 640 GROUP NUMBER 1
 0. 0. 0. 0. 0. 0. 0.
 .3333333E+000. 0. 0. -.5832000E+04-.6000000E+010. 0.
 0. 0. -1800000E+020. 0. 0. 0. 0.
 0. 0. .3005000E+00 .

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT
 CASE NUMBER 641 GROUP NUMBER 1
 .3535534E+000. 0. 0. .7071068E+00 .1178511E+00 -.1272792E+02 .7290000E+03
 .3333333E+00 -.6363961E+010. 0. .5832000E+04 -.6000000E+010. 0.
 .2357023E+00 -.4123847E+04 -.1800000E+02 .2577404E+030. 0. 0. -.2061923E+04
 0. 0. .3310000E+00
 CASE NUMBER 642 GROUP NUMBER 1
 .1000000E+010. 0. 0. .1000000E+01 .3333333E+00 -.1800000E+02 .7290000E+03
 .3333333E+00 -.1800000E+020. 0. .5832000E+04 -.6000000E+010. 0.
 .3333333E+00 -.5832000E+04 -.1800000E+02 .7290000E+030. 0. 0. -.5832000E+04
 0. 0. .3601000E+00
 CASE NUMBER 643 GROUP NUMBER 1
 .1837117E+010. 0. 0. .1224745E+01 .6123724E+00 -.2204541E+02 .7290000E+03
 .3333333E+00 -.3306811E+020. 0. .5832000E+04 -.6000000E+010. 0.
 .4082483E+00 -.7142712E+04 -.1800000E+02 .1339259E+040. 0. 0. -.1071407E+05
 0. 0. .3857000E+00
 CASE NUMBER 644 GROUP NUMBER 1
 .2828427E+010. 0. 0. .1414214E+01 .9428090E+00 -.2545584E+02 .7290000E+03
 .3333333E+00 -.5091169E+020. 0. .5832000E+04 -.6000000E+010. 0.
 .4714045E+00 -.8247693E+04 -.1800000E+02 .2061923E+040. 0. 0. -.1649539E+05
 0. 0. .4112000E+00
 CASE NUMBER 645 GROUP NUMBER 1
 .3952847E+010. 0. 0. .1581139E+01 .1317616E+01 -.2846050E+02 .7290000E+03
 .3333333E+00 -.7115125E+020. 0. .5832000E+04 -.6000000E+010. 0.
 .5270463E+00 -.9221202E+04 -.1800000E+02 .2881626E+040. 0. 0. -.2305300E+05
 0. 0. .4354000E+00
 CASE NUMBER 646 GROUP NUMBER 1
 .5196152E+010. 0. 0. .1732051E+01 .1732051E+01 -.3117691E+02 .7290000E+03
 .3333333E+00 -.9353074E+020. 0. .5832000E+04 -.6000000E+010. 0.
 .5773503E+00 -.1010132E+05 -.1800000E+02 .3787995E+040. 0. 0. -.3030396E+05
 0. 0. .4665000E+00
 CASE NUMBER 647 GROUP NUMBER 1
 .6547900E+010. 0. 0. .1870829E+01 .2182633E+01 -.3367492E+02 .7290000E+03
 .3333333E+00 -.1178622E+030. 0. .5832000E+04 -.6000000E+010. 0.
 .6236096E+00 -.1091067E+05 -.1800000E+02 .4773419E+040. 0. 0. -.3818736E+05
 0. 0. .5086000E+00
 CASE NUMBER 648 GROUP NUMBER 1
 .6830520E+010. 0. 0. .1897367E+01 .2276840E+01 -.3415260E+02 .7290000E+03
 .3333333E+00 -.1229494E+030. 0. .5832000E+04 -.6000000E+010. 0.
 .6324555E+00 -.1106544E+05 -.1800000E+02 .4979449E+040. 0. 0. -.3983559E+05
 0. 0. .5182000E+00

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT
 CASE NUMBER 649 GROUP NUMBER 1
 .7117092E+010. 0. 0. .1923538E+01 .2372364E+01 -.3462369E+02 .7290000E+03
 .3333333E+00 -.1281077E+030. 0. .5832000E+04 -.6000000E+010. 0.
 .6411795E+00 -.1121808E+05 -.1800000E+02 .5188350E+040. 0. 0. -.4150688E+05
 0. 0. .5259000E+00
 CASE NUMBER 650 GROUP NUMBER 1
 .7407564E+010. 0. 0. .1949359E+01 .2469188E+01 -.3508846E+02 .7290000E+03
 .3333333E+00 -.1333361E+030. 0. .5832000E+04 -.6000000E+010. 0.
 .6497863E+00 -.1136866E+05 -.1800000E+02 .5400114E+040. 0. 0. -.4320091E+05
 0. 0. .5328000E+00
 CASE NUMBER 651 GROUP NUMBER 1
 .7701883E+010. 0. 0. .1974842E+01 .2567294E+01 -.3554715E+02 .7290000E+03
 .3333333E+00 -.1386338E+030. 0. .5832000E+04 -.6000000E+010. 0.
 .6582806E+00 -.1151728E+05 -.1800000E+02 .5614673E+040. 0. 0. -.4491738E+05
 0. 0. .5402000E+00
 CASE NUMBER 652 GROUP NUMBER 1
 0. 0. 0. 0. 0. 0. .1000000E+04
 .3162278E+000. 0. 0. .5832000E+04 -.5692100E+010. 0.
 0. 0. -.1800000E+020. 0. 0. 0. 0.
 0. 0. .3082000E+00
 CASE NUMBER 653 GROUP NUMBER 1
 .3535534E+000. 0. 0. .7071068E+00 .1118034E+00 -.1272792E+02 .1000000E+04
 .3162278E+00 -.6363961E+010. 0. .5832000E+04 -.5692100E+010. 0.
 .2236068E+00 -.4123847E+04 -.1800000E+02 .3535534E+030. 0. 0. -.2061923E+04
 0. 0. .3393000E+00
 CASE NUMBER 654 GROUP NUMBER 1
 .1000500E+010. 0. 0. .1000000E+01 .3162278E+00 -.1800000E+02 .1000000E+04
 .3162278E+00 -.1800000E+020. 0. .5832000E+04 -.5692100E+010. 0.
 .3162278E+00 -.5832000E+04 -.1800000E+02 .1000000E+040. 0. 0. -.5832000E+04
 0. 0. .3699000E+00
 CASE NUMBER 655 GROUP NUMBER 1
 .1837117E+010. 0. 0. .1224745E+01 .5809475E+00 -.2204541E+02 .1000000E+04
 .3162278E+00 -.3306811E+020. 0. .5832000E+04 -.5692100E+010. 0.
 .3872983E+00 -.7142712E+04 -.1800000E+02 .1837117E+040. 0. 0. -.1071407E+05
 0. 0. .3959000E+00
 CASE NUMBER 656 GROUP NUMBER 1
 .2828427E+010. 0. 0. .1414214E+01 .8944272E+00 -.2545584E+02 .1000000E+04
 .3162278E+00 -.5091169E+020. 0. .5832000E+04 -.5692100E+010. 0.
 .4472136E+00 -.8247693E+04 -.1800000E+02 .2828427E+040. 0. 0. -.1649539E+05
 0. 0. .4176000E+00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT
CASE NUMBER 657 GROUP NUMBER 1
.3952847E+010. 0. 0. .1581139E+01 .1250000E+01-.2846050E+02 .1000000E+04
.3162278E+00-.7115125E+020. 0. -.5832000E+04-.5692100E+010. 0.
.5000000E+00-.9221202E+04-.1800000E+02 .3952847E+040. 0. 0. -.2305300E+05
0. 0. 0. .4460000E+00

CASE NUMBER 658 GROUP NUMBER 1
.5196152E+010. 0. 0. .1732051E+01 .1643168E+01-.3117681E+02 .1000000E+04
.3162278E+00-.9353074E+020. 0. -.5832000E+04-.5692100E+010. 0.
.5477226E+00-.1010132E+05-.1800000E+02 .5196152E+040. 0. 0. -.3030396E+05
0. 0. 0. .4797000E+00

CASE NUMBER 659 GROUP NUMBER 1
.6547900E+010. 0. 0. .1870829E+01 .2070628E+01-.3367492E+02 .1000000E+04
.3162278E+00-.1178622E+030. 0. -.5832000E+04-.5692100E+010. 0.
.5916080E+00-.1091067E+05-.1800000E+02 .6547900E+040. 0. 0. -.3818736E+05
0. 0. 0. .5273000E+00

CASE NUMBER 660 GROUP NUMBER 1
.6830520E+010. 0. 0. .1897367E+01 .2160000E+01-.3415260E+02 .1000000E+04
.3162278E+00-.1229494E+030. 0. -.5832000E+04-.5692100E+010. 0.
.6000000E+00-.1106544E+05-.1800000E+02 .6830520E+040. 0. 0. -.3983559E+05
0. 0. 0. .5343000E+00

CASE NUMBER 661 GROUP NUMBER 1
0. 0. 0. 0. 0. 0. 0. .1728000E+04
.2886751E+000. 0. 0. -.5832000E+04-.5196152E+010. 0.
0. 0. -.1800000E+020. 0. 0. 0. 0.
0. 0. 0. .3172000E+00

CASE NUMBER 662 GROUP NUMBER 1
.3535534E+000. 0. 0. .7071068E+00 .1020621E+00-.1272782E+02 .1728000E+04
.2886751E+00-.6363961E+010. 0. -.5832000E+04-.5196152E+010. 0.
.2041241E+00-.4123847E+04-.1800000E+02 .6109403E+030. 0. 0. -.2061923E+04
0. 0. 0. .3511000E+00

CASE NUMBER 663 GROUP NUMBER 1
.1000000E+010. 0. 0. .1000000E+01 .2886751E+00-.1800000E+02 .1728000E+04
.2886751E+00-.1800000E+020. 0. -.5832000E+04-.5196152E+010. 0.
.2886751E+00-.5832000E+04-.1800000E+02 .1728000E+040. 0. 0. -.5832000E+04
0. 0. 0. .3832000E+00

CASE NUMBER 664 GROUP NUMBER 1
.1827117E+010. 0. 0. .1224745E+01 .5303301E+00-.2204541E+02 .1728000E+04
.2886751E+00-.3306811E+020. 0. -.5832000E+04-.5196152E+010. 0.
.3535534E+00-.7142712E+04-.1800000E+02 .3174539E+040. 0. 0. -.1071407E+05
0. 0. 0. .4074000E+00

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT
CASE NUMBER 665 GROUP NUMBER 1
.2828427E+010. 0. 0. .1414214E+01 .8164966E+00-.2545584E+02 .1728000E+04
.2886751E+00-.5091169E+020. 0. -.5832000E+04-.5196152E+010. 0.
.4082483E+00-.8247693E+04-.1800000E+02 .4887522E+040. 0. 0. -.1649539E+05
0. 0. 0. .4343000E+00

CASE NUMBER 666 GROUP NUMBER 1
.3952847E+010. 0. 0. .1581139E+01 .1141089E+01-.2846050E+02 .1728000E+04
.2886751E+00-.7115125E+020. 0. -.5832000E+04-.5196152E+010. 0.
.4564355E+00-.9221202E+04-.1800000E+02 .6830520E+040. 0. 0. -.2305300E+05
0. 0. 0. .4667000E+00

CASE NUMBER 667 GROUP NUMBER 1
.5196152E+010. 0. 0. .1732051E+01 .1500000E+01-.3117681E+02 .1728000E+04
.2886751E+00-.9353074E+020. 0. -.5832000E+04-.5196152E+010. 0.
.5000000E+00-.1010132E+05-.1800000E+02 .8978951E+040. 0. 0. -.3030396E+05
0. 0. 0. .5107000E+00

CASE NUMBER 668 GROUP NUMBER 1
.5458113E+010. 0. 0. .1760682E+01 .1575622E+01-.3169227E+02 .1728000E+04
.2886751E+00-.9824604E+020. 0. -.5832000E+04-.5196152E+010. 0.
.5082650E+00-.1026830E+05-.1800000E+02 .9431620E+040. 0. 0. -.3183172E+05
0. 0. 0. .5196000E+00

CASE NUMBER 669 GROUP NUMBER 1
.5724234E+010. 0. 0. .1788854E+01 .1652473E+01-.3219938E+02 .1728000E+04
.2886751E+00-.1030380E+020. 0. -.5832000E+04-.5196152E+010. 0.
.5163978E+00-.1043260E+05-.1800000E+02 .9891649E+040. 0. 0. -.3338432E+05
0. 0. 0. .5286000E+00

CASE NUMBER 670 GROUP NUMBER 1
0. 0. 0. 0. 0. 0. 0. .3048625E+04
.2526129E+000. 0. 0. 0. -.5832000E+04-.4727032E+010. 0.
0. 0. -.1800000E+020. 0. 0. 0. 0.
0. 0. 0. .3270000E+00

CASE NUMBER 671 GROUP NUMBER 1
.3535534E+000. 0. 0. .7071068E+00 .9284767E-01-.1272792E+02 .3048625E+04
.2626129E+00-.6363961E+010. 0. -.5832000E+04-.4727032E+010. 0.
.1856953E+00-.4123847E+04-.1800000E+02 .1077852E+040. 0. 0. -.2061923E+04
0. 0. 0. .3621000E+00

CASE NUMBER 672 GROUP NUMBER 1
.1000000E+010. 0. 0. .1000000E+01 .2626129E+00-.1800000E+02 .3048625E+04
.2626129E+00-.1800000E+020. 0. -.5832000E+04-.4727032E+010. 0.
.2626129E+00-.5832000E+04-.1800000E+02 .3048625E+040. 0. 0. -.5832000E+04
0. 0. 0. .3975000E+00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT
CASE NUMBER 673 GROUP NUMBER 1
.1837117E+010. 0. 0. .1224745E+01 .4824506E+00-.2204541E+02 .3048625E+04
.2626129E+00-.3306811E+020. 0. 0. -.5832000E+04-.4727032E+010. 0.
.3216338E+00-.7142712E+04-.1800000E+02 .5600682E+040. 0. 0. -.1071407E+05
0. 0. 0. .4247000E+00
CASE NUMBER 674 GROUP NUMBER 1
.2828427E+010. 0. 0. .1414214E+01 .7427814E+00-.2545584E+02 .3048625E+04
.2626129E+00-.5091169E+020. 0. 0. -.5832000E+04-.4727032E+010. 0.
.3713907E+00-.8247693E+04-.1800000E+02 .8622814E+040. 0. 0. -.1649539E+05
0. 0. 0. .4562000E+00
CASE NUMBER 675 GROUP NUMBER 1
.3952847E+010. 0. 0. .1581139E+01 .1038068E+01-.2846050E+02 .3048625E+04
.2626129E+00-.7115125E+020. 0. 0. -.5832000E+04-.4727032E+010. 0.
.4152274E+00-.9221202E+04-.1800000E+02 .1205075E+050. 0. 0. -.2305300E+05
0. 0. 0. .4940000E+00
CASE NUMBER 676 GROUP NUMBER 1
.4192374E+010. 0. 0. .1512452E+01 .1100971E+01-.2902413E+02 .3048625E+04
.2626129E+00-.7546273E+020. 0. 0. -.5832000E+04-.4727032E+010. 0.
.4234505E+00-.9403817E+04-.1800000E+02 .1278098E+050. 0. 0. -.2444993E+05
0. 0. 0. .5029000E+00
CASE NUMBER 677 GROUP NUMBER 1
0. 0. .1000000E+030. 0. 0. 0. 0. .3430000E+03
.3779645E+000. 0. 0.050. 0. 0. -.5832000E+04-.6803361E+01 .3430000E+07 .3779645E+02
0. 0. .1800000E+020. 0. 0. 0. 0. .3430000E+050. 0.
0. 0. .5832000E+06 .2648000E+00
CASE NUMBER 678 GROUP NUMBER 1
.3535534E+00 .3535534E+02 .1000000E+03 .7071068E+02 .7071068E+00 .1336306E+00-.1272792E+02 .3430000E+03
.3779645E+00-.6363961E+01 .1000000E+05 .3535534E+04-.5832000E+04-.6803361E+01 .3430000E+07 .3779645E+02
.2672612E+00-.4123847E+04-.1800000E+02 .1212688E+03-.6363961E+03 .3430000E+05-.6363961E+05-.2061923E+04
-.1272792E+04-.1272792E+06-.5832000E+06 .2989000E+00
CASE NUMBER 679 GROUP NUMBER 1
.1000000E+01 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .3779645E+00-.1800000E+02 .3430000E+03
.3779645E+00-.1800000E+02 .1000000E+05 .1000000E+05-.5832000E+04-.6803361E+01 .3430000E+07 .3779645E+02
.3779645E+00-.5832000E+04-.1800000E+02 .3430000E+03-.1800000E+04 .3430000E+05-.1800000E+06-.5832000E+04
.1800000E+04-.1800000E+06-.5832000E+06 .3133000E+00
CASE NUMBER 680 GROUP NUMBER 1
.1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+01 .6943651E+00-.2204541E+02 .3430000E+03
.3779645E+00-.3306811E+02 .1000000E+05 .1837117E+05-.5832000E+04-.6803361E+01 .3430000E+07 .3779645E+02
.4629100E+00-.7142712E+04-.1800000E+02 .6301312E+03-.3306811E+04 .3430000E+05-.3306811E+06-.1071407E+05
-.2204541E+04-.2204541E+06-.5832000E+06 .3333000E+00

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT
CASE NUMBER 681 GROUP NUMBER 1
.2828427E+01 .2828427E+03 .1000000E+03 .1414214E+03 .1414214E+01 .1069045E+01-.2545584E+02 .3430000E+03
.3779645E+00-.5091169E+02 .1000000E+05 .2828427E+05-.5832000E+04-.6803361E+01 .3430000E+07 .3779645E+02
.5345225E+00-.8247693E+04-.1800000E+02 .9701505E+03-.5091169E+04 .3430000E+05-.5091169E+06-.1649539E+05
-.2545584E+04-.2545584E+06-.5832000E+06 .3508000E+00
CASE NUMBER 682 GROUP NUMBER 1
.3952847E+01 .3952847E+03 .1000000E+03 .1581139E+03 .1581139E+01 .1494036E+01-.2846050E+02 .3430000E+03
.3779645E+00-.7115125E+02 .1000000E+05 .3952847E+05-.5832000E+04-.6803361E+01 .3430000E+07 .3779645E+02
.5976143E+00-.9221202E+04-.1800000E+02 .1355827E+04-.7115125E+04 .3430000E+05-.7115125E+06-.2305300E+05
-.2846050E+04-.2846050E+06-.5832000E+06 .3722000E+00
CASE NUMBER 683 GROUP NUMBER 1
.5196152E+01 .5196152E+03 .1000000E+03 .1732051E+03 .1732051E+01 .1963961E+01-.3117691E+02 .3430000E+03
.3779645E+00-.9353074E+02 .1000000E+05 .5196152E+05-.5832000E+04-.6803361E+01 .3430000E+07 .3779645E+02
.6546537E+00-.1010132E+05-.1800000E+02 .1782280E+04-.9353074E+04 .3430000E+05-.9353074E+06-.3030396E+05
-.3117691E+04-.3117691E+06-.5832000E+06 .3964000E+00
CASE NUMBER 684 GROUP NUMBER 1
.6547900E+01 .6547900E+03 .1000000E+03 .1870829E+03 .1870829E+01 .2474874E+01-.3367492E+02 .3430000E+03
.3779645E+00-.1178622E+00 .1000000E+05 .6547900E+05-.5832000E+04-.6803361E+01 .3430000E+07 .3779645E+02
.7071068E+00-.1091057E+05-.1800000E+02 .2245930E+04-.1178622E+05 .3430000E+05-.1178622E+07-.3818736E+05
-.3367492E+04-.3367492E+06-.5832000E+06 .4242000E+00
CASE NUMBER 685 GROUP NUMBER 1
.8000000E+01 .8000000E+03 .1000000E+03 .2000000E+03 .2000000E+01 .3023716E+01-.3600000E+02 .3430000E+03
.3779645E+00-.1440000E+03 .1000000E+05 .8000000E+05-.5832000E+04-.6803361E+01 .3430000E+07 .3779645E+02
.7559285E+00-.1166400E+05-.1800000E+02 .2744000E+04-.1440000E+05 .3430000E+05-.1440000E+07-.4665600E+05
-.3600000E+04-.3600000E+06-.5832000E+06 .4510000E+00
CASE NUMBER 686 GROUP NUMBER 1
.8301867E+01 .8301867E+03 .1000000E+03 .2024846E+03 .2024846E+01 .3137811E+01-.3644722E+02 .3430000E+03
.3779645E+00-.1494336E+03 .1000000E+05 .8301867E+05-.5832000E+04-.6803361E+01 .3430000E+07 .3779645E+02
.7653197E+00-.1180890E+05-.1800000E+02 .2847540E+04-.1494336E+05 .3430000E+05-.1494336E+07-.4841649E+05
-.3644722E+04-.3644722E+06-.5832000E+06 .4574000E+00
CASE NUMBER 687 GROUP NUMBER 1
0. 0. .1000000E+030. 0. 0. 0. 0. .7290000E+03
.3333333E+000. 0. 0.050. 0. 0. -.5832000E+04-.6000000E+01 .7290000E+07 .3333333E+02
0. 0. .1800000E+020. 0. 0. 0. 0. .7290000E+050. 0.
0. 0. .5832000E+06 .2750000E+00
CASE NUMBER 688 GROUP NUMBER 1
.3535534E+00 .3535534E+02 .1000000E+03 .7071068E+02 .7071068E+00 .1178511E+00-.1272792E+02 .7290000E+03
.3333333E+00-.6363961E+01 .1000000E+05 .3535534E+04-.5832000E+04-.6000000E+01 .7290000E+07 .3333333E+02
.2357023E+00-.4123847E+04-.1800000E+02 .2577404E+03-.6363961E+03 .7290000E+05-.6363961E+05-.2061923E+04
-.1272792E+04-.1272792E+06-.5832000E+06 .3019000E+00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT
 CASE NUMBER 689 GROUP NUMBER 1
 .1000000E+01 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .3333333E+00 .1800000E+02 .7290000E+03
 .3333333E+00 .1800000E+02 .1000000E+05 .1000000E+05 .5832000E+04 .5000000E+01 .7290000E+07 .3333333E+02
 .3333333E+00 .5832000E+04 .1800000E+02 .7290000E+03 .1800000E+04 .7290000E+05 .1800000E+06 .5832000E+04
 -.1800000E+04 .1800000E+06 .5832000E+06 .3258000E+00
 CASE NUMBER 690 GROUP NUMBER 1
 .1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+01 .6123724E+00 .2204541E+02 .7290000E+03
 .3333333E+00 .3306811E+02 .1000000E+05 .1837117E+05 .5832000E+04 .6000000E+01 .7290000E+07 .3333333E+02
 .4082483E+00 .7142712E+04 .1800000E+02 .1339259E+04 .3306811E+04 .7290000E+05 .3306811E+06 .1071407E+05
 -.2204541E+04 .2204541E+06 .5832000E+06 .3449000E+00
 CASE NUMBER 691 GROUP NUMBER 1
 .2828427E+01 .2828427E+03 .1000000E+03 .1414214E+03 .1414214E+01 .9428090E+00 .2545584E+02 .7290000E+03
 .3333333E+00 .5901169E+02 .1000000E+05 .3952847E+05 .5832000E+04 .6000000E+01 .7290000E+07 .3333333E+02
 .4714045E+00 .8247693E+04 .1800000E+02 .2061923E+04 .5091169E+04 .7290000E+05 .5091169E+06 .1649539E+05
 -.2545584E+04 .2545584E+06 .5832000E+06 .3667000E+00
 CASE NUMBER 692 GROUP NUMBER 1
 .3952847E+01 .3952847E+03 .1000000E+03 .1581139E+03 .1581139E+01 .1317616E+01 .2846050E+02 .7290000E+03
 .3333333E+00 .7115125E+02 .1000000E+05 .3952847E+05 .5832000E+04 .6000000E+01 .7290000E+07 .3333333E+02
 .5270463E+00 .9221202E+04 .1800000E+02 .2881625E+04 .7115125E+04 .7290000E+05 .7115125E+06 .2305300E+05
 -.2846050E+04 .2846050E+06 .5832000E+06 .3915000E+00
 CASE NUMBER 693 GROUP NUMBER 1
 .5196152E+01 .5196152E+03 .1000000E+03 .1732051E+03 .1732051E+01 .1732051E+01 .3117691E+02 .7290000E+03
 .3333333E+00 .9353074E+02 .1000000E+05 .5196152E+05 .5832000E+04 .6000000E+01 .7290000E+07 .3333333E+02
 .5773503E+00 .1010132E+05 .1800000E+02 .3787895E+04 .9353074E+04 .7290000E+05 .9353074E+06 .3030396E+05
 -.3117691E+04 .3117691E+06 .5832000E+06 .4201000E+00
 CASE NUMBER 694 GROUP NUMBER 1
 .6547900E+01 .6547900E+03 .1000000E+03 .1870829E+03 .1870829E+01 .2182633E+01 .3367492E+02 .7290000E+03
 .3333333E+00 .1178622E+03 .1000000E+05 .6547900E+05 .5832000E+04 .6000000E+01 .7290000E+07 .3333333E+02
 .6236096E+00 .1091067E+05 .1800000E+02 .4772418E+04 .1178622E+05 .7290000E+05 .1178622E+07 .3818736E+05
 -.3367492E+04 .3367492E+06 .5832000E+06 .4525000E+00
 CASE NUMBER 695 GROUP NUMBER 1
 .6830520E+01 .6830520E+03 .1000000E+03 .1897367E+03 .1897367E+01 .2276840E+01 .3415260E+02 .7290000E+03
 .3333333E+00 .1229494E+03 .1000000E+05 .6830520E+05 .5832000E+04 .6000000E+01 .7290000E+07 .3333333E+02
 .6324555E+00 .1106544E+05 .1800000E+02 .4979449E+04 .1229494E+05 .7290000E+05 .1229494E+07 .3983559E+05
 -.3415260E+04 .3415260E+06 .5832000E+06 .4589000E+00
 CASE NUMBER 696 GROUP NUMBER 1
 0. 0. .1000000E+030. 0. 0. 0. 0. .1000000E+04
 .3162278E+000. .1000000E+050. -.5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
 0. 0. .1800000E+020. 0. 0. .1000000E+060. 0.
 0. 0. .5832000E+06 .2783000E+00

FRIDAY, JUL 2, 1976

TRANSGENERATED
 DATA INPUT
 CASE NUMBER 697 GROUP NUMBER 1
 .3535534E+00 .3535534E+02 .1000000E+03 .7071068E+02 .7071068E+00 .1118034E+00 .1272792E+02 .1000000E+04
 .3162278E+00 .6363961E+01 .1000000E+05 .3535534E+04 .5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
 .2236068E+00 .4123847E+04 .1800000E+02 .3535534E+03 .6363961E+03 .1000000E+06 .6363961E+05 .2061923E+04
 -.1272792E+04 .1272792E+06 .5832000E+06 .3054000E+00
 CASE NUMBER 698 GROUP NUMBER 1
 .1000000E+01 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .3162278E+00 .1800000E+02 .1000000E+04
 .3162278E+00 .1229494E+03 .1000000E+05 .6830520E+05 .5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
 .3162278E+00 .5832000E+04 .1800000E+02 .1000000E+04 .1000000E+06 .1800000E+06 .5832000E+04
 -.1800000E+04 .1800000E+06 .5832000E+06 .3312000E+00
 CASE NUMBER 699 GROUP NUMBER 1
 .1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+01 .5809475E+00 .2204541E+02 .1000000E+04
 .3162278E+00 .1837117E+02 .1000000E+05 .1837117E+05 .5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
 .3872983E+00 .7142712E+04 .1800000E+02 .1837117E+04 .3306811E+04 .1000000E+06 .3306811E+06 .1071407E+05
 -.2204541E+04 .2204541E+06 .5832000E+06 .3517000E+00
 CASE NUMBER 700 GROUP NUMBER 1
 .2828427E+01 .2828427E+03 .1000000E+03 .1414214E+03 .1414214E+01 .8944272E+00 .2545584E+02 .1000000E+04
 .3162278E+00 .5091169E+02 .1000000E+05 .2828427E+04 .5091169E+04 .1000000E+06 .5091169E+06 .1649539E+05
 -.447213BE+00 .2847693E+04 .1800000E+02 .2828427E+04 .5091169E+04 .1000000E+06 .5091169E+06 .1649539E+05
 CASE NUMBER 701 GROUP NUMBER 1
 .3952847E+01 .3952847E+03 .1000000E+03 .1581139E+03 .1581139E+01 .1250000E+01 .2846050E+02 .1000000E+04
 .3162278E+00 .7115125E+02 .1000000E+05 .3952847E+05 .5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
 .5000000E+00 .9221202E+04 .1800000E+02 .3952847E+04 .7115125E+04 .1000000E+06 .7115125E+06 .2305300E+05
 -.2846050E+04 .2846050E+06 .5832000E+06 .4014000E+00
 CASE NUMBER 702 GROUP NUMBER 1
 .5196152E+01 .5196152E+03 .1000000E+03 .1732051E+03 .1732051E+01 .1643168E+01 .3117691E+02 .1000000E+04
 .3162278E+00 .9353074E+02 .1000000E+05 .5196152E+05 .5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
 .5477226E+00 .1010132E+05 .1800000E+02 .5196152E+04 .9353074E+04 .1000000E+06 .9353074E+06 .3030396E+05
 -.3117691E+04 .3117691E+06 .5832000E+06 .4317000E+00
 CASE NUMBER 703 GROUP NUMBER 1
 .5458113E+01 .5458113E+03 .1000000E+03 .1760682E+03 .1760682E+01 .1726007E+01 .3162278E+02 .1000000E+04
 .3162278E+00 .9824604E+02 .1000000E+05 .5458113E+05 .5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
 .5567754E+00 .1026830E+05 .1800000E+02 .5458113E+04 .9824604E+04 .1000000E+06 .9824604E+06 .3183172E+05
 -.3169227E+04 .3169227E+06 .5832000E+06 .4386000E+00
 CASE NUMBER 704 GROUP NUMBER 1
 .5724334E+01 .5724334E+03 .1000000E+03 .1788854E+03 .1788854E+01 .1810193E+01 .3219938E+02 .1000000E+04
 .3162278E+00 .1030380E+03 .1000000E+05 .5724334E+05 .5832000E+04 .5692100E+01 .1000000E+08 .3162278E+02
 .5656854E+00 .1043260E+05 .1800000E+02 .5724334E+04 .1030380E+05 .1000000E+06 .1030380E+07 .3338432E+05
 -.3219938E+04 .3219938E+06 .5832000E+06 .4446000E+00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	GROUP NUMBER
705	1
.5994748E+01 .5994748E+03 .1000000E+03 .1816590E+03 .1816590E+01 .1895706E+01 -.3269862E+02 .1000000E+04	
.3162278E+00 -.1079055E+03 .1000000E+05 .5994748E+05 .5832000E+04 -.5692100E+01 .1000000E+08 .3162278E+02	
.5744563E+00 -.1059435E+05 .1800000E+04 .5994748E+04 -.1079055E+05 .1000000E+06 -.1079055E+07 -.3496137E+05	
-.3269862E+04 -.3269862E+06 -.5832000E+06 .4517000E+00	
CASE NUMBER	1
706	
0. 0. .1000000E+030. 0. 0. .1728000E+04	
.2886751E+000. .1000000E+050. -.5832000E+04 -.5196152E+01 .1728000E+08 .2886751E+02	
0. 0. -.1800000E+020. 0. .1728000E+060. 0.	
0. 0. -.5832000E+06 .28865000E+00	
CASE NUMBER	1
707	
.3535534E+00 .3535534E+02 .1000000E+03 .7071068E+02 .7071068E+00 .1020621E+00 -.1272792E+02 .1728000E+04	
.2886751E+00 -.6363961E+02 .1000000E+05 .3535534E+04 -.5832000E+04 -.5196152E+01 .1728000E+08 .2886751E+02	
.2041241E+00 -.4123847E+04 -.1800000E+02 .6109403E+03 -.6363961E+03 .1728000E+06 -.6363961E+05 -.2061923E+04	
-.1272792E+04 -.1272792E+06 -.5832000E+06 .3150000E+00	
CASE NUMBER	1
708	
.1000000E+01 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .2886751E+00 -.1800000E+02 .1728000E+04	
.2886751E+00 -.1800000E+02 .1000000E+05 .1000000E+05 .1000000E+01 .1728000E+08 .2886751E+02	
.2886751E+00 -.5832000E+04 -.1800000E+02 .1728000E+04 -.1800000E+04 .1728000E+06 -.1800000E+06 -.5832000E+04	
-.1800000E+04 -.1800000E+06 -.5832000E+06 .3425000E+00	
CASE NUMBER	1
709	
.1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+01 .5303301E+00 -.2204541E+02 .1728000E+04	
.2886751E+00 -.3306811E+02 .1000000E+05 .1837117E+05 -.5832000E+04 -.5196152E+01 .1728000E+08 .2886751E+02	
.3535534E+00 -.7142712E+04 -.1800000E+02 .3306811E+04 .1728000E+06 -.3306811E+06 -.1071407E+05	
-.2204541E+04 -.2204541E+06 -.5832000E+06 .3654000E+00	
CASE NUMBER	1
710	
.2828427E+01 .2828427E+03 .1000000E+03 .1414214E+03 .1414214E+01 .8164956E+00 -.2545584E+02 .1728000E+04	
.2886751E+00 -.5091169E+02 .1000000E+05 .2828427E+05 -.5832000E+04 -.5196152E+01 .1728000E+08 .2886751E+02	
.4082483E+00 -.8247693E+04 -.1800000E+02 .4887522E+04 -.5091169E+04 .1728000E+06 -.5091169E+06 -.1649539E+05	
-.2545584E+04 -.2545584E+06 -.5832000E+06 .3914000E+00	
CASE NUMBER	1
711	
.3952847E+01 .3952847E+03 .1000000E+03 .1581139E+03 .1581139E+01 .1141089E+01 -.2846050E+02 .1728000E+04	
.2886751E+00 -.7115125E+02 .1000000E+05 .3952847E+05 -.5832000E+04 -.5196152E+01 .1728000E+08 .2886751E+02	
.4564355E+00 -.9221202E+04 -.1800000E+02 .6830520E+04 -.7115125E+04 .1728000E+06 -.7115125E+06 -.2305300E+05	
-.2846050E+04 -.2846050E+06 -.5832000E+06 .4209000E+00	
CASE NUMBER	1
712	
.4192374E+01 .4192374E+03 .1000000E+03 .1612452E+03 .1612452E+01 .1210234E+01 -.2902413E+02 .1728000E+04	
.2886751E+00 -.7546273E+02 .1000000E+05 .4192374E+05 -.5832000E+04 -.5196152E+01 .1728000E+08 .2886751E+02	
.4654747E+00 -.9403817E+04 -.1800000E+02 .7244422E+04 -.7546273E+04 .1728000E+06 -.7546273E+06 -.2444993E+05	
-.2902413E+04 -.2902413E+06 -.5832000E+06 .4274000E+00	

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	GROUP NUMBER
713	1
.4436553E+01 .4436553E+03 .1000000E+03 .1643168E+03 .1643168E+01 .1280722E+01 -.2957702E+02 .1728000E+04	
.2886751E+00 -.7985795E+02 .1000000E+05 .4436553E+05 -.5832000E+04 -.5196152E+01 .1728000E+08 .2886751E+02	
.4743415E+00 -.9582954E+04 -.1800000E+02 .7666363E+04 -.7985795E+04 .1728000E+06 -.7985795E+06 -.2587398E+05	
-.2957702E+04 -.2957702E+06 -.5832000E+06 .4339000E+00	
CASE NUMBER	1
714	
.4685296E+01 .4685296E+03 .1000000E+03 .1673320E+03 .1673320E+01 .1352528E+01 -.3011976E+02 .1728000E+04	
.2886751E+00 -.8433533E+02 .1000000E+05 .4685296E+05 -.5832000E+04 -.5196152E+01 .1728000E+08 .2886751E+02	
.4830459E+00 -.9758803E+04 -.1800000E+02 .8096192E+04 -.8433533E+04 .1728000E+06 -.8433533E+06 -.2732465E+05	
-.3011976E+04 -.3011976E+06 -.5832000E+06 .4405000E+00	
CASE NUMBER	1
715	
0. 0. .1000000E+030. 0. 0. .3048625E+04	
.2626129E+000. .1000000E+050. -.5832000E+04 -.4727032E+01 .3048625E+08 .2626129E+02	
0. 0. -.1800000E+020. 0. .3048625E+060. 0.	
0. 0. -.5832000E+06 .2987000E+00	
CASE NUMBER	1
716	
.3535534E+00 .3535534E+02 .1000000E+03 .7071068E+02 .7071068E+00 -.9284767E+01 -.1272792E+02 .3048625E+04	
.2626129E+00 -.6363961E+01 .1000000E+05 .5832000E+04 -.5832000E+04 -.4727032E+01 .3048625E+08 .2626129E+02	
.1856953E+00 -.4123847E+04 -.1800000E+02 .1077852E+04 -.6363961E+03 .3048625E+06 -.6363961E+05 -.2061923E+04	
-.1272792E+04 -.1272792E+06 -.5832000E+06 .3299000E+00	
CASE NUMBER	1
717	
.1000000E+01 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .2626129E+00 -.1800000E+02 .3048625E+04	
.2826129E+00 -.1800000E+02 .1000000E+05 .1000000E+05 .5832000E+04 -.4727032E+01 .3048625E+08 .2626129E+02	
.2826129E+00 -.5832000E+04 -.1800000E+02 .3048625E+04 -.1800000E+04 .3048625E+06 -.1800000E+06 -.5832000E+04	
-.1800000E+04 -.1800000E+06 -.5832000E+06 .3571000E+00	
CASE NUMBER	1
718	
.1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+01 .4824505E+00 -.2204541E+02 .3048625E+04	
.2826129E+00 -.3306811E+02 .1000000E+05 .1837117E+05 -.5832000E+04 -.4727032E+01 .3048625E+08 .2626129E+02	
.3216338E+00 -.7142712E+04 -.1800000E+02 .5600682E+04 -.3306811E+04 .3048625E+06 -.3306811E+06 -.1071407E+05	
-.2204541E+04 -.2204541E+06 -.5832000E+06 .3831000E+00	
CASE NUMBER	1
719	
.2828427E+01 .2828427E+03 .1000000E+03 .1414214E+03 .1414214E+01 .7427814E+00 -.2545584E+02 .3048625E+04	
.2626129E+00 -.5091169E+02 .1000000E+05 .2828427E+05 -.5832000E+04 -.4727032E+01 .3048625E+08 .2626129E+02	
.3713907E+00 -.8247693E+04 -.1800000E+02 .8622814E+04 -.5091169E+04 .3048625E+06 -.5091169E+06 -.1649539E+05	
-.2545584E+04 -.2545584E+06 -.5832000E+06 .4118000E+00	
CASE NUMBER	1
720	
.3043189E+01 .3043189E+03 .1000000E+03 .1449138E+03 .1449138E+01 .7991805E+00 -.2608448E+02 .3048625E+04	
.2826129E+00 -.5477740E+02 .1000000E+05 .3043189E+05 -.5832000E+04 -.4727032E+01 .3048625E+08 .2626129E+02	
.3805622E+00 -.8451371E+04 -.1800000E+02 .9277542E+04 -.5477740E+04 .3048625E+06 -.5477740E+06 -.1774788E+05	
-.2608448E+04 -.2608448E+06 -.5832000E+06 .4178000E+00	

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	GROUP NUMBER
.3263127E+01 .3263127E+03 .1000000E+03 .1483240E+03 .1483240E+01 .8569392E+00 -.2669831E+02 .3048625E+04	
.2626129E+00 -.5873629E+02 .1000000E+05 .3263127E+05 -.5832000E+04 -.4727032E+01 .3048625E+08 .2626129E+02	
.3895178E+00 -.850254E+04 .1800000E+02 .8948052E+04 -.5873629E+04 .3048625E+06 -.5873629E+06 -.1903056E+05	
-.2669831E+04 .2669831E+06 .5832000E+06 .4240000E+00	
CASE NUMBER 722 GROUP NUMBER 1	
.3488123E+01 .3488123E+03 .1000000E+03 .1516575E+03 .1516575E+01 .9160259E+00 -.2729835E+02 .3048625E+04	
.2626129E+00 -.6278621E+02 .1000000E+05 .3488123E+05 -.5832000E+04 -.4727032E+01 .3048625E+08 .2626129E+02	
.3982721E+00 -.8844666E+04 .1800000E+02 .1063398E+05 -.6278621E+04 .3048625E+06 -.6278621E+06 -.2034273E+05	
-.2729835E+04 .2729835E+06 .5832000E+06 .4307000E+00	
CASE NUMBER 723 GROUP NUMBER 1	
0. 0. .2000000E+030. 0. 0. .3430000E+03	
.3779645E+000. .4000000E+050. .5832000E+040. .6803361E+010. .1372000E+080. .7559289E+02	
0. 0. -.1800000E+020. 0. 0. .6860000E+050.	
0. 0. -.1166400E+070. 2515000E+00	
CASE NUMBER 724 GROUP NUMBER 1	
.3535534E+000 .7071058E+02 .2000000E+03 .1414214E+03 .7071058E+00 .1326306E+00 -.1272792E+02 .3430000E+03	
.3779645E+000 -.6363961E+01 .4000000E+05 .1414214E+05 -.5832000E+04 -.6803361E+01 .1372000E+08 .7559289E+02	
.2672612E+000 -.4123847E+04 .1800000E+02 .1212888E+03 -.1272792E+04 .6860000E+05 -.2545584E+06 -.2061923E+04	
-.2545584E+04 -.5091169E+06 -.1166400E+07 .2724000E+00	
CASE NUMBER 725 GROUP NUMBER 1	
.1000000E+01 .2000000E+03 .2000000E+03 .2000000E+03 .1000000E+01 .3779645E+000 -.1800000E+02 .3430000E+03	
.3779645E+000 -.1800000E+02 .4000000E+05 .4000000E+05 -.5832000E+04 -.6803361E+01 .1372000E+08 .7559289E+02	
.3779645E+000 -.5832000E+04 -.1800000E+02 .3430000E+03 -.3600000E+04 .6860000E+05 -.7200000E+06 -.5832000E+04	
-.3600000E+04 -.7200000E+06 -.1166400E+07 .2867000E+00	
CASE NUMBER 726 GROUP NUMBER 1	
.1827117E+01 .3674235E+03 .2000000E+03 .2449490E+03 .1224745E+01 .6942351E+00 -.2204541E+02 .3430000E+03	
.3779645E+000 -.3306811E+02 .4000000E+05 .7248469E+05 -.5832000E+04 -.6803361E+01 .1372000E+08 .7559289E+02	
.4629100E+000 -.7142712E+04 .1800000E+02 .6301312E+03 -.6613622E+04 .6860000E+05 -.1322724E+07 -.1071401E+05	
-.4409082E+04 -.8818163E+06 -.1166400E+07 .3021000E+00	
CASE NUMBER 727 GROUP NUMBER 1	
.2828427E+01 .5656854E+03 .2000000E+03 .2828427E+03 .1414214E+01 .1069045E+01 .2545584E+02 .3430000E+03	
.3779645E+000 -.5091159E+02 .4000000E+05 .1131371E+06 -.5832000E+04 -.6803361E+01 .1372000E+08 .7559289E+02	
.5345225E+000 -.8247693E+04 -.1800000E+02 .9701505E+03 -.1018234E+05 .6860000E+05 -.2036468E+07 -.1649539E+05	
-.5091169E+04 -.1018234E+07 -.1166400E+07 .3212000E+00	
CASE NUMBER 728 GROUP NUMBER 1	
.3952847E+01 .7905694E+03 .2000000E+03 .3162278E+03 .1581139E+01 .1494036E+01 -.2846050E+02 .3430000E+03	
.3779645E+000 -.7115125E+02 .4000000E+05 .1581139E+06 -.5832000E+04 -.6803361E+01 .1372000E+08 .7559289E+02	
.5976143E+000 -.9221202E+04 .1800000E+02 .1355827E+04 -.1423025E+05 .6860000E+05 -.2846050E+07 -.2305300E+05	
-.5692100E+04 -.1138420E+07 -.1166400E+07 .3417000E+00	

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	GROUP NUMBER
CASE NUMBER 729 GROUP NUMBER 1	
.5196152E+01 .1039230E+04 .2000000E+03 .3464102E+03 .1732051E+01 .1963961E+01 .3117691E+02 .3430000E+03	
.3779645E+000 -.9353074E+02 .4000000E+05 .2078461E+06 -.5832000E+04 -.6803361E+01 .1372000E+08 .7559289E+02	
-.6546537E+000 -.1010132E+05 -.1800000E+02 .1782280E+04 -.1870615E+05 .6860000E+05 -.3741230E+07 -.3030396E+05	
-.6235383E+04 -.1247077E+07 -.1166400E+07 .3645000E+00	
CASE NUMBER 730 GROUP NUMBER 1	
.6547900E+01 .1309580E+04 .2000000E+03 .3741657E+03 .1870829E+01 .2474874E+01 .3367492E+02 .3430000E+03	
.3779645E+000 -.1178622E+03 .4000000E+05 .2619160E+06 -.5832000E+04 -.6803361E+01 .1372000E+08 .7559289E+02	
.7071058E+000 -.1091067E+01 .1800000E+02 .2245930E+04 -.2357244E+05 .6860000E+05 -.4714488E+07 -.3818736E+05	
-.6734983E+04 -.1346697E+07 -.1166400E+07 .3915000E+00	
CASE NUMBER 731 GROUP NUMBER 1	
.6830520E+01 .1366104E+04 .2000000E+03 .3794733E+03 .1897367E+01 .2581694E+01 .3415260E+02 .3430000E+03	
.3779645E+000 -.1229494E+03 .4000000E+05 .1723220E+06 -.5832000E+04 -.6803361E+01 .1372000E+08 .7559289E+02	
.7171372E+000 -.1106544E+05 -.1800000E+02 .2342868E+04 -.2458978E+05 .6860000E+05 -.4917974E+07 -.3983559E+05	
-.6830520E+04 -.1366104E+07 -.1166400E+07 .3965000E+00	
CASE NUMBER 732 GROUP NUMBER 1	
.7171092E+01 .1423418E+04 .2000000E+03 .3849871E+03 .1923538E+01 .2690086E+01 .3462369E+02 .3430000E+03	
.3779645E+000 -.1281077E+03 .4000000E+05 .2846837E+06 -.5832000E+04 -.6803361E+01 .1372000E+08 .7559289E+02	
.7270292E+000 -.1121808E+05 -.1800000E+02 .2441153E+04 -.2562153E+05 .6860000E+05 -.5124306E+07 -.4150688E+05	
-.6924738E+04 -.1384948E+07 -.1166400E+07 .4015000E+00	
CASE NUMBER 733 GROUP NUMBER 1	
.7407564E+01 .1481513E+04 .2000000E+03 .3898718E+03 .1949359E+01 .2799796E+01 .3508846E+02 .3430000E+03	
.3779645E+000 -.1386339E+03 .4000000E+05 .2963025E+06 -.5832000E+04 -.6803361E+01 .1372000E+08 .7559289E+02	
.7367884E+000 -.1136866E+05 -.1800000E+02 .2540794E+04 -.2666723E+05 .6860000E+05 -.5333446E+07 -.4320091E+05	
-.7017692E+04 -.1403538E+07 -.1166400E+07 .4069000E+00	
CASE NUMBER 734 GROUP NUMBER 1	
.7701883E+01 .1540377E+04 .2000000E+03 .3949684E+03 .1974842E+01 .2911038E+01 .3554715E+02 .3430000E+03	
.3779645E+000 -.1386339E+03 .4000000E+05 .3080753E+06 -.5832000E+04 -.6803361E+01 .1372000E+08 .7559289E+02	
.7464200E+000 -.1151728E+05 -.1800000E+02 .2641746E+04 -.2772678E+05 .6860000E+05 -.5545356E+07 -.4491738E+05	
-.7109430E+04 -.1421886E+07 -.1166400E+07 .4125000E+00	
CASE NUMBER 735 GROUP NUMBER 1	
.8000000E+01 .1600000E+04 .2000000E+03 .4000000E+03 .2000000E+01 .3023716E+01 .3600000E+02 .3430000E+03	
.3779645E+000 -.1440000E+03 .4000000E+05 .3200000E+06 -.5832000E+04 -.6803361E+01 .1372000E+08 .7559289E+02	
.7559289E+000 -.1166400E+05 -.1800000E+02 .2744000E+04 -.2880000E+05 .6860000E+05 -.5760000E+07 -.4665500E+05	
-.7200000E+04 -.1440000E+07 -.1166400E+07 .4184000E+00	
CASE NUMBER 736 GROUP NUMBER 1	
0. 0. .2000000E+030. 0. 0. .7290000E+03	
.3333333E+000. .4000000E+050. .5832000E+040. .6000000E+01. .2916000E+08. .6666667E+02	
0. 0. .1800000E+020. 0. 0. .1458000E+060. 0.	
0. 0. .1166400E+07 .2572000E+00	

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 737

GROUP NUMBER 1									
.3535534E+00	.7071068E+02	.2000000E+03	.1414214E+03	.7071068E+00	.1178511E+00	.1272792E+02	.7290000E+03		
.3333333E+00	.6363961E+01	.4000000E+05	.1414214E+05	.5832000E+04	.6000000E+01	.2916000E+08	.6666667E+02		
.2357023E+00	.4123847E+04	.1800000E+02	.2577404E+03	.1272792E+04	.1458000E+06	.2545584E+06	.2061923E+04		
.2545584E+04	.5091169E+06	.1166400E+07	.2799000E+00						

CASE NUMBER 738

GROUP NUMBER 1									
.1000000E+01	.2000000E+03	.2000000E+03	.1000000E+01	.3333333E+00	.1800000E+02	.7290000E+03			
.3333333E+00	.1800000E+02	.4000000E+05	.4000000E+05	.5832000E+04	.6000000E+01	.2916000E+08	.6666667E+02		
.3333333E+00	.5832000E+04	.1800000E+02	.7290000E+03	.3600000E+04	.1458000E+06	.7200000E+06	.5832000E+04		
.3600000E+04	.7200000E+06	.1166400E+07	.2977000E+00						

CASE NUMBER 739

GROUP NUMBER 1									
.1837117E+01	.3674235E+03	.2000000E+03	.2449490E+03	.1224745E+01	.6123724E+00	.2204541E+02	.7290000E+03		
.3333333E+00	.3306811E+02	.4000000E+05	.7348469E+05	.5832000E+04	.6000000E+01	.2916000E+08	.6666667E+02		
.4082483E+00	.7142712E+04	.1800000E+02	.1335258E+04	.6613622E+04	.1458000E+06	.1322724E+07	.1071407E+05		
.4409082E+04	.8818163E+06	.1166400E+07	.3163000E+00						

CASE NUMBER 740

GROUP NUMBER 1									
.2828427E+01	.5656854E+03	.2000000E+03	.2828427E+03	.1414214E+01	.9428090E+00	.2545584E+02	.7290000E+03		
.3333333E+00	.5091169E+02	.4000000E+05	.1131371E+06	.5832000E+04	.6000000E+01	.2916000E+08	.6666667E+02		
.4714045E+00	.8247693E+04	.1800000E+02	.2061923E+04	.1018234E+05	.1458000E+06	.2036468E+07	.1649539E+05		
.5091169E+04	.1018234E+07	.1166400E+07	.3372000E+00						

CASE NUMBER 741

GROUP NUMBER 1									
.3952847E+01	.7905949E+03	.2000000E+03	.162278E+03	.1581139E+01	.1317616E+01	.2846050E+02	.7290000E+03		
.3333333E+00	.7115125E+02	.4000000E+05	.1581139E+06	.5832000E+04	.6000000E+01	.2916000E+08	.6666667E+02		
.5270463E+00	.9221202E+04	.1800000E+02	.2881626E+04	.1423025E+05	.1458000E+06	.2846050E+07	.2305300E+05		
.5692100E+04	.1138420E+07	.1166400E+07	.3606000E+00						

CASE NUMBER 742

GROUP NUMBER 1									
.5196152E+01	.1039230E+04	.2000000E+03	.3464102E+03	.1732051E+01	.1732051E+01	.3117691E+02	.7290000E+03		
.3333333E+00	.9353074E+02	.4000000E+05	.2078461E+06	.5832000E+04	.6000000E+01	.2916000E+08	.6666667E+02		
.5773503E+00	.101010132E+05	.1800000E+02	.3787959E+04	.1870615E+05	.1458000E+06	.3741230E+07	.3030396E+05		
.6235383E+04	.1247077E+07	.1166400E+07	.3880000E+00						

CASE NUMBER 743

GROUP NUMBER 1									
.5458113E+01	.1091623E+04	.2000000E+03	.3521363E+03	.1760682E+01	.1819371E+01	.3169227E+02	.7290000E+03		
.3333333E+00	.9824604E+02	.4000000E+05	.2183245E+06	.5832000E+04	.6000000E+01	.2916000E+08	.6666667E+02		
.5868939E+00	.1026830E+05	.1800000E+02	.3978965E+04	.1964921E+05	.1458000E+06	.3929842E+07	.3183172E+05		
.6338454E+04	.1267659E+07	.1166400E+07	.3940000E+00						

CASE NUMBER 744

GROUP NUMBER 1									
.57242334E+01	.1144867E+04	.2000000E+03	.3577709E+03	.1788854E+01	.1908111E+01	.3219938E+02	.7290000E+03		
.3333333E+00	.1030380E+03	.4000000E+05	.2289734E+06	.5832000E+04	.6000000E+01	.2916000E+08	.6666667E+02		
.5962848E+00	.1043260E+05	.1800000E+02	.4173040E+04	.2060760E+05	.1458000E+06	.4121520E+07	.3338432E+05		
.6439876E+04	.1287975E+07	.1166400E+07	.4002000E+00						

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 745

GROUP NUMBER 1									
.5994748E+01	.1198950E+04	.2000000E+03	.3633180E+03	.1816590E+01	.1998249E+01	.3269862E+02	.7290000E+03		
.3333333E+00	.1079055E+03	.4000000E+05	.2397899E+06	.5832000E+04	.6000000E+01	.2916000E+08	.6666667E+02		
.6055301E+00	.1059435E+05	.1800000E+02	.4370171E+04	.2158109E+05	.1458000E+06	.4316218E+07	.3496137E+05		
.6539725E+04	.1307945E+07	.1166400E+07	.4066000E+00						

CASE NUMBER 746

GROUP NUMBER 1									
.6269290E+01	.1253858E+04	.2000000E+03	.3687818E+03	.1843509E+01	.2089763E+01	.3319036E+02	.7290000E+03		
.3333333E+00	.1128472E+03	.4000000E+05	.2507716E+06	.5832000E+04	.6000000E+01	.2916000E+08	.6666667E+02		
.6146336E+00	.1075368E+05	.1800000E+02	.4570313E+04	.2256944E+05	.1458000E+06	.4513889E+07	.3656250E+05		
.6638072E+04	.1327614E+07	.1166400E+07	.4131000E+00						

CASE NUMBER 747

GROUP NUMBER 1									
0.	0.	.2000000E+030	0.	0.	0.	.1000000E+04			
.3162278E+000	.	.4000000E+050	.	.5832000E+04	.5692100E+01	.4000000E+08	.6324555E+02		
0.	0.	.1800000E+020	0.	0.	.2000000E+060	0.			
0.	0.	.1166400E+07	.2604000E+00						

CASE NUMBER 748

GROUP NUMBER 1									
.3535534E+00	.7071068E+02	.2000000E+03	.1414214E+03	.7071068E+00	.1118034E+00	.1272792E+02	.1000000E+04		
.3162278E+00	.6363961E+02	.4000000E+05	.1414214E+05	.5832000E+04	.5692100E+01	.4000000E+08	.6324555E+02		
.2236058E+00	.4123847E+04	.1800000E+02	.3535534E+03	.1272792E+04	.2000000E+06	.2545584E+06	.2061923E+04		
.2545584E+04	.5091169E+06	.1166400E+07	.2838000E+00						

CASE NUMBER 749

GROUP NUMBER 1									
.1000000E+01	.2000000E+03	.2000000E+03	.1000000E+01	.3162278E+00	.1800000E+02	.1000000E+04			
.3162278E+00	.1800000E+04	.4000000E+05	.4000000E+05	.5832000E+04	.5692100E+01	.4000000E+08	.6324555E+02		
.3162278E+00	.5832000E+04	.1800000E+02	.1000000E+04	.3600000E+04	.2000000E+06	.7200000E+06	.5832000E+04		
.3600000E+04	.7200000E+06	.1166400E+07	.3036000E+00						

CASE NUMBER 750

GROUP NUMBER 1									
.1837117E+01	.3674235E+03	.2000000E+03	.2449490E+03	.1224745E+01	.5809475E+00	.2204541E+02	.1000000E+04		
.3162278E+00	.3306811E+02	.4000000E+05	.7348469E+05	.5832000E+04	.5692100E+01	.4000000E+08	.6324555E+02		
.3872983E+00	.7142712E+04	.1800000E+02	.1837117E+04	.6613622E+04	.2000000E+06	.1322724E+07	.1071407E+05		
.4409082E+04	.8818163E+06	.1166400E+07	.3233000E+00						

CASE NUMBER 751

GROUP NUMBER 1									
.2828427E+01	.5656854E+03	.2000000E+03	.2828427E+03	.1414214E+01	.8944272E+00	.2545584E+02	.1000000E+04		
.3162278E+00	.5091169E+02	.4000000E+05	.1131371E+06	.5832000E+04	.5692100E+01	.4000000E+08	.6324555E+02		
.4472136E+00	.8247693E+04	.1800000E+02	.2828427E+04	.1018234E+05	.2000000E+06	.2036468E+07	.1649539E+05		
.5091169E+04	.1018234E+07	.1166400E+07	.3451000E+00						

CASE NUMBER 752

GROUP NUMBER 1									
.3952847E+01	.7905949E+03	.2000000E+03	.3162278E+03	.1581139E+01	.1250000E+01	.2846050E+02	.1000000E+04		
.3162278E+00	.7115125E+02	.4000000E+05	.1581139E+06	.5832000E+04	.5692100E+01	.4000000E+08	.6324555E+02		
.5000000E+00	.9221202E+04	.1800000E+02	.3852847E+04	.1423025E+05	.2000000E+06	.2846050E+07	.2305300E+05		
.5692100E+04	.1138420E+07	.1166400E+07	.3704000E+00						

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	753	GROUP NUMBER	1				
.5196152E+01	.1039230E+04	.2000000E+03	.3464102E+03	.1732051E+01	.1643168E+01	.3111769E+02	.1000000E+04
.3162278E+00	.9353074E+02	.4000000E+05	.2078461E+05	.5832000E+04	.5832100E+01	.4000000E+08	.6324555E+02
.5477226E+00	.1010132E+05	.1800000E+02	.5196152E+04	.1870615E+05	.2000000E+06	.3741230E+07	.3030396E+05
.6235383E+04	.1247077E+07	.1166400E+07	.3998000E+00				
CASE NUMBER	754	GROUP NUMBER	1				
.5458113E+01	.1091623E+04	.2000000E+03	.3521363E+03	.1760682E+01	.1726007E+01	.3169227E+02	.1000000E+04
.3162278E+00	.9824604E+02	.4000000E+05	.2183245E+06	.5832000E+04	.5832100E+01	.4000000E+08	.6324555E+02
.5567764E+00	.1026830E+05	.1800000E+02	.5458113E+04	.1964921E+05	.2000000E+06	.3929842E+07	.3183172E+05
.6338454E+04	.1267691E+07	.1166400E+07	.4062000E+00				
CASE NUMBER	755	GROUP NUMBER	1				
0.	0.	.2000000E+030.	0.	0.	0.	.1728000E+04	
.2886751E+000.		.4000000E+050.		.5832000E+04	.5196152E+01	.6912000E+08	.5773503E+02
0.	0.	.1800000E+020.	0.		.3456000E+060.	0.	
0.	0.	.1166400E+07	.2689000E+00				
CASE NUMBER	756	GROUP NUMBER	1				
.3535534E+00	.7071068E+02	.2000000E+03	.1414214E+03	.7071068E+00	.1020621E+00	.1272792E+02	.1728000E+04
.2886751E+00	.6363956E+01	.4000000E+05	.1414214E+05	.5832000E+04	.5196152E+01	.6912000E+08	.5773503E+02
.2041241E+00	.4123847E+04	.1800000E+02	.6109403E+03	.1272792E+04	.3456000E+06	.2545584E+06	.2061923E+04
.2545584E+04	.5091169E+06	.1166400E+07	.2922000E+00				
CASE NUMBER	757	GROUP NUMBER	1				
.1000000E+01	.2000000E+03	.2000000E+03	.1000000E+01	.2886751E+00	.1800000E+02	.1728000E+04	
.2886751E+00	.1800000E+02	.4000000E+05	.4000000E+05	.5832000E+04	.5196152E+01	.6912000E+08	.5773503E+02
.2886751E+00	.5832000E+04	.1800000E+02	.1728000E+04	.3600000E+04	.3456000E+06	.7200000E+06	.5832000E+04
.3600000E+04	.7200000E+06	.1166400E+07	.3157000E+00				
CASE NUMBER	758	GROUP NUMBER	1				
.1837117E+01	.3674235E+02	.2000000E+03	.2449490E+03	.1224745E+01	.5303100E+00	.2204541E+02	.1728000E+04
.2886751E+00	.3306811E+02	.4000000E+05	.7348469E+05	.5832000E+04	.5196152E+01	.6912000E+08	.5773503E+02
.3535534E+00	.7142712E+04	.1800000E+02	.3174539E+04	.6613622E+04	.3456000E+06	.1322724E+07	.1071407E+05
.4409082E+04	.8818163E+06	.1166400E+07	.3369000E+00				
CASE NUMBER	759	GROUP NUMBER	1				
.2828427E+01	.5656854E+03	.2000000E+03	.2828427E+03	.1414214E+01	.8164966E+00	.2545584E+02	.1728000E+04
.2886751E+00	.5091169E+02	.4000000E+05	.7348469E+05	.5832000E+04	.5196152E+01	.6912000E+08	.5773503E+02
.4082483E+00	.8247593E+04	.1800000E+02	.4887522E+04	.1018234E+05	.3456000E+06	.2036468E+07	.1649539E+05
.5091169E+04	.1018234E+07	.1166400E+07	.3613000E+00				
CASE NUMBER	760	GROUP NUMBER	1				
.3952847E+01	.7905694E+03	.2000000E+03	.3162278E+03	.1581139E+01	.1141089E+01	.2846050E+02	.1728000E+04
.2886751E+00	.7115125E+02	.4000000E+05	.1581139E+06	.5832000E+04	.5196152E+01	.6912000E+08	.5773503E+02
.4564355E+00	.9221202E+04	.1800000E+02	.6830520E+04	.1423025E+05	.3456000E+06	.2846050E+07	.2305300E+05
.5692100E+04	.1138420E+07	.1166400E+07	.3897000E+00				

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	761	GROUP NUMBER	1				
.4192374E+01	.8384748E+03	.2000000E+03	.3224903E+03	.1612452E+01	.1210234E+01	.2902413E+02	.1728000E+04
.2886751E+00	.7546273E+02	.4000000E+05	.1676950E+05	.5832000E+04	.5196152E+01	.6912000E+08	.5773503E+02
.4654747E+00	.9403817E+04	.1800000E+02	.7244422E+04	.1509255E+05	.3456000E+06	.3018509E+07	.2444933E+05
.5804826E+04	.1160965E+07	.1166400E+07	.3958000E+00				
CASE NUMBER	762	GROUP NUMBER	1				
0.	0.	.2000000E+030.	0.	0.	0.	.3048625E+04	
.2626129E+000.		.4000000E+050.		.5832000E+04	.4727032E+01	.1219450E+09	.5252257E+02
0.	0.	.1800000E+020.	0.		.6097250E+060.	0.	
0.	0.	.1166400E+07	.2765000E+00				
CASE NUMBER	763	GROUP NUMBER	1				
.3535534E+00	.7071068E+02	.2000000E+03	.1414214E+03	.7071068E+00	.9284767E+01	.1272792E+02	.3048625E+04
.2626129E+00	.6363961E+01	.4000000E+05	.1414214E+05	.5832000E+04	.4727032E+01	.1219450E+09	.5252257E+02
.1856953E+00	.4123847E+04	.1800000E+02	.1077852E+04	.1272792E+04	.6097250E+06	.2545584E+06	.2061923E+04
.2545584E+04	.5091169E+06	.1166400E+07	.3034000E+00				
CASE NUMBER	764	GROUP NUMBER	1				
.1000000E+01	.2000000E+03	.2000000E+03	.1000000E+01	.2626129E+00	.1800000E+02	.3048625E+04	
.2626129E+00	.1800000E+02	.4000000E+05	.4000000E+05	.5832000E+04	.4727032E+01	.1219450E+09	.5252257E+02
.2626129E+00	.5832000E+04	.1800000E+02	.3048625E+04	.3600000E+04	.6097250E+06	.7200000E+06	.5832000E+04
.3600000E+04	.7200000E+06	.1166400E+07	.3299000E+00				
CASE NUMBER	765	GROUP NUMBER	1				
.1837117E+01	.3674235E+03	.2000000E+03	.2449490E+03	.1224745E+01	.4824506E+00	.2204541E+02	.3048625E+04
.2626129E+00	.3306811E+02	.4000000E+05	.7348469E+05	.5832000E+04	.4727032E+01	.1219450E+09	.5252257E+02
.3216338E+00	.7142712E+04	.1800000E+02	.5600682E+04	.6613622E+04	.6097250E+06	.1322724E+07	.1071407E+05
.4409082E+04	.8818163E+06	.1166400E+07	.3538000E+00				
CASE NUMBER	766	GROUP NUMBER	1				
.2023858E+01	.4047715E+03	.2000000E+03	.2529822E+03	.1264911E+01	.5314911E+00	.2276840E+02	.3048625E+04
.2626129E+00	.3642944E+02	.4000000E+05	.8095431E+05	.5832000E+04	.4727032E+01	.1219450E+09	.5252257E+02
.3321819E+00	.7376961E+04	.1800000E+02	.6169983E+04	.7285888E+04	.6097250E+06	.1457178E+07	.1180314E+05
.4553680E+04	.9107360E+06	.1166400E+07	.3595000E+00				
CASE NUMBER	767	GROUP NUMBER	1				
.2216529E+01	.4433058E+03	.2000000E+03	.2607681E+03	.1303840E+01	.5820890E+00	.2346913E+02	.3048625E+04
.2626129E+00	.3989752E+02	.4000000E+05	.8866115E+05	.5832000E+04	.4727032E+01	.1219450E+09	.5252257E+02
.3424053E+00	.7603998E+04	.1800000E+02	.6757365E+04	.7979504E+04	.6097250E+06	.1595901E+07	.1292680E+05
.4693282E+04	.9387651E+06	.1166400E+07	.3647000E+00				
CASE NUMBER	768	GROUP NUMBER	1				
.2414953E+01	.4829907E+03	.2000000E+03	.2683282E+03	.1341641E+01	.6341978E+00	.2414953E+02	.3048625E+04
.2626129E+00	.4346916E+02	.4000000E+05	.9659814E+05	.5832000E+04	.4727032E+01	.1219450E+09	.5252257E+02
.3523321E+00	.7824449E+04	.1800000E+02	.7362287E+04	.8693832E+04	.6097250E+06	.1738766E+07	.1408401E+05
.4829907E+04	.9659814E+06	.1166400E+07	.3701000E+00				

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 769

GROUP NUMBER 1							
.2618989E+01	.5237939E+03	.2000000E+03	.2756810E+03	.1378405E+01	.6877750E+00	.24811129E+02	.3048625E+04
.2626129E+00	.47114145E+02	.4000000E+05	.1047588E+06	.5832000E+04	.4727032E+01	.1219450E+09	.5252257E+02
.3619869E+00	.8038857E+04	.1800000E+02	.7984255E+04	.9428289E+04	.6097250E+06	.1885658E+07	.1527383E+05
-.4962258E+04	-.9924515E+06	-.1166400E+07	.3757000E+00				

CASE NUMBER 770

GROUP NUMBER 1							
.2828427E+01	.5656854E+03	.2000000E+03	.2828427E+03	.1414214E+01	.7427814E+00	.2545584E+02	.3048625E+04
.2626129E+00	.5091169E+02	.4000000E+05	.1131371E+06	.5832000E+04	.4727032E+01	.1219450E+09	.5252257E+02
.3713907E+00	.8247693E+04	.1800000E+02	.8522814E+04	.1018234E+05	.6097250E+06	.2036468E+07	.1649539E+05
-.5091169E+04	-.1018234E+07	-.1166400E+07	.3814000E+00				

NADC-77036-30

A P P E N D I X B

ANALYSIS OF COVARIANCE COMPUTER PROGRAM LISTING

NADC-77036-30

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This section contains the FORTRAN source listings for program BMD04V and its associated subroutines, presented in the following order:

PROGRAM BMD04V

Subroutines

MINV

GRSPSEL

PATTY2

TG41

TPWD

WRT

LDAY

CONF

NADC-77036-30

```

PROGRAM BMD04V(INPUT,OUTPUT,TAPE4,TAPE5=INPUT,TAPE6=OUTPUT,TAPE1,
CTAPE2,TAPE3,TAPE7,TAPE8,TAPE9)
C
C      THIS IS A SIFTED VERSION OF BMD04V ORIGINALLY WRITTEN IN          000000000
C      FORTRAN II.  SOME MODIFICATIONS WERE MADE TO MAKE IT OPERABLE        000000020
C      AND SLIGHTLY MORE EFFICIENT THAN THE SIFTED VERSION.                  000000030
C
C      CODE=PROBLEM IDENTIFICATION                                         000000040
C      KVF=NO. OF VARIABLE FORMAT CARDS                                     000000050
C      LYNN=NO. OF TREATMENT DEFINITION CARDS                            000000060
C      NADD=NO. OF VARIABLES TO BE ADDED AFTER TG                         000000070
C      NCARD=NO. OF CARDS/CASE                                           000000080
C      NCASE=NO. OF CASES                                              000000090
C      NCOV=NO. OF COVARIATES                                         000000100
C      NDV=NO. OF THE DEPENDENT VARIABLE                                000000110
C      NGRPS=NO. OF TREATMENT GROUPS                                    000000120
C      NTAPE=LOGICAL TAPE NO. FOR INPUT DATA                           000000130
C      NTG=NO. OF TG CARDS                                            000000140
C      REP=REPROCESS SAME DATA MATRIX                                 000000150
C
C      REAL   KODE,NAMES,KKK                                         000000160
C      DOUBLE PRECISION Z,DB,DE,DT
C      DIMENSION NAMES(36),KRR(100),TMP(8),INDX(8),WHEN(3)           000000170
C      DIMENSION NEW(99),JUMP(99),NA(99),BH(99),NSAM(99),FMT(80),
C      IDATA(100),NSUB(99,6),CONT(99,6),REL(99,6),NG(99),X(36),00000220
C      2SSVAR(99,36),TOTXX(36,36),TOTXY(36),TREXX(36,36),TREXY(36),
C      3ERRXX(36,36),ERRXY(36),LLL(36),B(35),C(35),D(35),
C      4SEB(35),SEC(35),SED(35),ADY(99),SEADY(99),A(99),SS(99),YY(99)
C      5,INDEX(100),INDEX2(36),IX(8),Z(1225),IY(35),IZ(35)
C      6,ERRCC(36,36),TRECC(36,36),TOTCC(36,36),HCG(99),SDWG(99),VWG(99)
C      COMMON DATA   , NSUB   , CONT   , REL    , OPER   , NG    00000270
C      COMMON LH     , NEW    , JUMP   , NA     , BN    , TERROR 00000280
C      COMMON NVAR   , NTG    , NCASE   ,          ,          ,          00000290
C      COMMON /WT/A,B,C,D,SEB,SEC,SED,SSVAR,ADY,SEADY,YAC,WHEN
C      SER(X)=1.+X*((X/1.414213562)**2)+((X/1.817120593)**3)
C      1+((X/2.21363829)**4)*((X/2.605171085)**5)+((X/2.993795166)**6)
C      2+((X/3.380015161)**7)+((X/3.7643506)**8)+((X/4.147156272)**9)
C      3+((X/4.528728687)**10)+((X/4.909285779)**11)+((X/5.288857994)**12)
C      4+((X/5.567691177)**13)+((X/6.045855167)**14)+((X/6.423424746)**15)
C      5+((X/6.800466801)**16)+((X/7.177037353)**17)+((X/7.553183862)**18)
C      6+((X/7.928946849)**19)+((X/8.304361204)**20)+((X/8.679457224)**21)
C
C      5 FORMAT(1H1)
C      3 FORMAT(1H1,10X,3A10)
C      102 FORMAT(* BMD04V - ANALYSIS OF COVARIANCE - MULTIPLE COVARIATES - R000000300
C      REVISED OCTOBER 2, 1972/ 000000310
C      293M HEALTH SCIENCES COMPUTING FACILITY, UCLA ( NADC REVISI
C      30 JULY 2, 1976 J.J. FRANZ //)
C      WRITE(6,5)
C      ITAPE=2                                         00000330
C      REWIND ITAPE                                     00000340
C      IT3=3                                         00000350
C      NTAPE=5                                         00000360
C      JTAPER=7
C      DATA   , A124/6HFINISH/,A125/6HSAMSIZ/,A126/6HGRPDEF/,A321/6HTRNGEN/00000370
C      1,A421/6HCVRSEL/,A521/6HLAB  /,P123/6HPROBLM/ 00000380
C      DATA A123/3HYES/
C      CALL LDAY(WHEN)
C      999 READ (5,100)TODE,CODE,NGRPS,NCASE,NCARD,NCOV,NADD,NDV,OUT,INAM,REP00000400
C      1,LYNN,WRES,TRES,VAR,SSQ,MCOR,CORR,FCAST,REW,NTG,MTAPE,KVF
C      NITP=0                                         00000420
C
C
C      IF(TODE .NE.A124) GO TO 1 00000430
C      2 IF(NTAPE .LE. 5) GO TO 4 00000440
C      REWIND NTAPE                                     00000450
C      4 STOP                                         00000460
C      1 REWIND 8
C      REWIND 9
C      WRITE(6,3) WHEN
C      ZQQQ=P123
C      IF(TODE.NE.P123) GO TO 446 00000480
C      IF(NGRPS.LE.0) GO TO 456 00000490
C      IF(NCOV.LT.2)GO TO 496 00000500
C      GO TO 400                                         00000510
C      446 WRITE (6,446) ZQQQ,TODE 00000520
C      446 FORMAT(1H,A6,6H CARD EXPECTED. THE FIRST SIX COLUMNS OF THE CARD00000530
C      1 READ WERE ,A6) 00000540
C      GO TO 2                                         00000550
C      441 WRITE (6,441) 00000560
C      441 FORMAT(4H01ILLEGAL NUMBER OF TRANSGENERATION CARDS) 00000570
C      GO TO 2                                         00000580
C      1441 WRITE(6,2441) 00000590
C      2441 FORMAT(3H01PROBLEM HAS TOO MANY VARIABLES) 00000600
C      GO TO 2                                         00000610
C      1442 WRITE(6,2442) 00000620
C      2442 FORMAT(4H01ILLEGAL NUMBER IN COL.24-26 ON PROBLM CARD.) 00000630
C      GO TO 2                                         00000640
C      448 WRITE(6,4488) 00000650
C      448 FORMAT(5SH01VIOLATING EITHER RULE(2) OR RULE(5) ON PAGE 525 OF BMD)00000660
C      GO TO 2                                         00000670
C      491 WRITE(6,4910) 00000680
C      4910 FORMAT(4H01NUMBER OF GROUP DEFINITION CARDS ILLEGAL) 00000690
C      GO TO 2                                         00000700
C      496 WRITE(6,4969) 00000710
C      4969 FORMAT(3SH01ILLEGAL NUMBER OF VARIATES READ IN) 00000720
C      GO TO 2                                         00000730
C      456 WRITE(6,4569) 00000740
C      4569 FORMAT(3SH01ILLEGAL NUMBER OF TREATMENT GROUPS) 00000750
C      GO TO 2                                         00000760
C      443 WRITE (6,4443) 00000770
C      4443 FORMAT(5H01THE NUMBER OF THE INPUT TAPE CANNOT BE 2 OR 3 ) 00000780
C      GO TO 2                                         00000790
C      1440 WRITE(6,2440) IL
C      2440 FORMAT(6H01PROBLEM HAS TOO MANY VARIABLES FOR THE NUMBER OF CASES
C      1IN GROUP,15)
C      GO TO 2
C      401 WRITE (6,403) 00000800
C      GO TO 2
C      400 WRITE (6,102) 00000810
C      BACKSPACE 5
C      READ (5,114) (IX(J),J=1,8)
C      WRITE (6,98) (IX(J),J=1,8) 00000820
C      98 FORMAT(1X,B10.//)
C      WRITE (6,103)CODE,NGRPS,NCASE,NCARD,NCOV,NADD,NDV,OUT, INAM,REP,LY00000830
C      INN,WRES,TRES,VAR,CORR,FCAST,REW,NTG,MTAPE,KVF
C      IF((NCOV+NADD)*(NCOV+NADD-100).GE.0)GO TO 1441 00000850
C      IF((NADD + 98) * (NADD - 35) .GE. 0) GO TO 1442 00000860
C      IF((MTAPE-ITAPE)*(MTAPE-IT3) .EQ. 0) GO TO 443 00000870
C      IF(REW.EQ.A123)CALL TPWD(MTape,NTAPE)
C      NVAR=NCOV                                         00000880
C      KIT3=0                                         00000900
C      REWIND IT3                                         00000910

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NADC-77036-30

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REWIND JTAPE
IERROR=0
DO 332 I=1,99
332 DATA(I)=0.0
DO 333 I=1,36
NAMES(I)=0
INDEX1(I)=0
333 INDEX2(I)=0
LH=NVAR+1+NADD
C NVAR=LH-1
LR=NVAR
IF(LH.GE.38.OR.LH.LE.2)GO TO 1441
IF(KVF.GT.0.AND.KVF.LE.10)GO TO 410
WRITE(6,9999)
KVF = 1
410 ASSIGN 50 TO NSKIP
IF(NTG) 441,10,11
11 ASSIGN 49 TO NSKIP
IF(NTG.GT.99) GO TO 441
ZQQQ=A321
DO 411 I=1,NTG
READ (5,106)TODE,NEW(I),JUMP(I),NA(I),BN(I)
IF(TODE.NE.A321) GO TO 446
IF(MOD(I,50).NE.1)GO TO 12
WRITE(6,3) WHEN
WRITE(6,104)
WRITE(6,105)
12 WRITE (6,107)I,NEW(I),JUMP(I),NA(I),BN(I)
IF((JUMP(I)-18)*(JUMP(I)-19)*(JUMP(I)-40).EQ. 0) GO TO 4115
411 IF((JUMP(I)-41)*4111,411,4115
4115 IF((JUMP(I)-25)*(39-JUMP(I)) .LT. 0) GO TO 411
WRITE (6,150)I
LYNN=-99
411 CONTINUE
10 IF(LYNN)491,14,13
13 WRITE(6,3) WHEN
WRITE(6,110)
IJ=0
DATA STAR/4H/ /
DO 21 I=1,LYNN
READ (5,111)TODE,NG(I),(NSUB(I,J),REL(I,J),CONT(I,J),OPER(I,J),J=100001260
1,6)
ZQQQ=A126
IF(TODE.NE.A126) GO TO 446
DO 16 LL=1,6
IF(OPER(I,LL).NE.STAR)GO TO 16
IK=LL+3
IJ=IJ+IK
GO TO 18
16 CONTINUE
18 IF(IJ.LE.50)GO TO 19
IJ=IK
WRITE(6,3) WHEN
WRITE(6,110)
19 WRITE (6,112)NG(I)
DO 22 J=1,6
WRITE (6,113)NSUB(I,J),REL(I,J),CONT(I,J),OPER(I,J)
IF(OPER(I,J) .EQ. STAR) GO TO 21
22 CONTINUE
21 CONTINUE

GO TO 15
14 NCARDS=(NGRPS+21)/22
N2=0
WRITE (6,3) WHEN
WRITE (6,155)
DO 1450 J=1,NCARDS
N1=N2+1
N2=N2+22
IF(N2 .LE. 99) GO TO 1430
N2=99
1430 READ (5,109)TODE,(NSAM(I),I=N1,N2)
WRITE (6,157)TODE,(NSAM(I),I=N1,N2)
BACKSPACE 5
READ (5,108)TODE,(NSAM(I),I=N1,N2)
ZQQQ=A125
IF(TODE.NE.A125) GO TO 446
1450 CONTINUE
15 IF(INAM)401,17,501
501 N1=0
WRITE(6,3) WHEN
WRITE(6,125)
503 READ(5,504)TODE,(INDX(I),TMP(I),I=1,7)
FORMAT(A2,3,X7(14,A6))
IF(TODE.NE.A521)GO TO 446
DO 505 I=1,7
IF(INDX(I).EQ.0)GO TO 505
N1=N1+1
INDEX1(N1)=INDX(I)
KKK(N1)=TMP(I)
505 CONTINUE
BACKSPACE 5
READ(5,506)(INDX(I),I=1,7)
WRITE(6,126)(INDX(I),TMP(I),I=1,7)
506 FORMAT(6X,7(A4,6X))
IF(N1.LT.INAM)GO TO 503
17 KVF=KVF#8
WRITE(6,3) WHEN
WRITE(6,109)
READ (5,114)(FMT(I),I=1,KVF)
WRITE(6,209)(FMT(I),I=1,KVF)
209 FORMAT(1X,8A10)
IF(IREP .EQ. A123) GO TO 37
K1=NCARD+NCASE
KIT3=1
IF(NTAPE.NE.5) GO TO 3777
DO 35 I=1,K1
READ (NTAPE,114) (IX(J),J=1,8)
35 WRITE (IT3,114) (IX(J),J=1,8)
END FILE IT3
NLAST=IT3
37 NTAPE=NLAST
3777 KNTP=KIT3
IF(KNTP.EQ.0) GO TO 36
REWIND NTAPE
36 IF(LYNN .GT. 0) GO TO 26
NITP=1
KNTP=1
DO 27 I=1,NGRPS
NN=NSAM(I)
DO 27 J=1,NN

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NADC-77036-30

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READ (NTAPE,FMT)(DATA(K),K=1,NVAR)          00001830
DATA(100)=I                                  00001840
WRITE(1TAPE)(DATA(K),K=1,NVAR),DATA(100)
27 CONTINUE                                     00001850
DO 28 I=1,99                                  00001870
28 GO TO 28
29 NSAM(I)=0                                  00001890
KNTP=1                                       00001900
DO 30 I=1,NCASE                                00001910
DATA(100)=0.0                                 00001920
READ (NTAPE,FMT)(DATA(J),J=1,NVAR)           00001930
DO 31 J=1,LYNN                                00001940
CALL GRPSEL(J)                               00001950
IF(IJ .GT. 0) GO TO 299                      00001970
READ (5,151)KODE,NCO                         00001980
IF(NITP.EQ.0) GO TO 88                       00001990
REWIND ITAPE                                 00002000
88 IF(NCO .GE. 33) GO TO 999                 00002010
READ (5,151)KODE                           00002020
GO TO 999
299 IF(DATA(100) .LE. 0.) GO TO 31          00002030
KK=NG1(J)                                 00002040
NSAM(KK)=NSAM(KK)+1                         00002050
NITP=1                                       00002060
WRITE(1TAPE)(DATA(K),K=1,NVAR),DATA(100)
GO TO 30                                     00002070
31 CONTINUE                                     00002100
30 CONTINUE                                     00002120
28 END FILE ITAPE                            00002130
REWIND ITAPE
REWIND ITAPE
IF(LYNN .LE. 0) GO TO 43
JJ=0
DO 39 I=1,99
39 NG(I)=0
DO 40 I=1,99
40 IF(NSAM(I) .LE. 0) GO TO 40
JJ=JJ+1
NG(JJ)=NSAM(I)
NSAM(I)=JJ
40 CONTINUE                                     00002140
JX=MAX0(JJ,NGRPS)                          00002150
NGRPS=JJ                                     00002160
J=0
DO 45 I=1,JX
45 NNG=0
IF(NSAM(I).EQ.0)GO TO 41
J=J+1
NNG=NG(J)
41 IF(MOD(I,50).NE.1)GO TO 45
41 WRITE(6,3) WHEN
41 WRITE (6,115)
41 WRITE (6,116)I,NSAM(I),NNG
41 GO TO 252
43 DO 251 I=1,NGRPS                         00002170
43 NG(I)=NSAM(I)
251 NG(I)=NSAM(I)
252 NVAR=NVAR+NADD
NCOV=NCOV+NADD-1
DO 46 I=1,NVAR
46 TOTXY(I)=0.0
46 ERRXY(I)=0.0
46 DO 46 J=1,NVAR
46 TOTXX(I,J)=0.0
46 TREXX(I,J)=0.0
46 ERXX(I,J)=0.0
46 DO 47 I=1,NGRPS
46 DO 47 J=1,NVAR
47 SSVAR(I,J)=0.0
47 ASSIGN 490 TO MUD
47 READ (5,152)TODE,NCO,(INDEX2(I),I=1,35)
47 ZQQ=A421
47 IF(TODE.NE.A421) GO TO 446
47 WRITE(6,3) WHEN
47 WRITE (6,154)
47 WRITE (6,153)TODE,NCO,(INDEX2(I),I=1,35)
47 BACKSPACE 5
47 READ (5,151)NCO,(INDEX2(I),I=1,35)
47 IF(NCO.LE.32) GO TO 38
47 READ (5,152)TODE,(INDEX2(1),I=33,35)
47 IF(TODE.NE.A421) GO TO 446
47 WRITE (6,153)TODE,(INDEX2(1),I=33,35)
47 BACKSPACE 5
47 READ (5,151)NCO,(INDEX2(I),I=33,35)
38 NMCO=NCO
38 DO 44 I=1,NCO
38 IF(INDEX2(I).LE.0) NMCO=NMC0-1
44 CONTINUE
44 NMCO=NMC0
44 IF(NCO.GT.35.OR.(NGRPS+NCO+1).GT.NCASE) GO TO 448
44 NCO=NCO
44 NVAR=NCO+
44 INDEX2(NVAR)=NDV
44 IF( OUT .NE. A123) GO TO 475
44 ASSIGN 417 TO MUD
44 MESS=0
44 LL=0
44 IJ=50/(NCARD+2)
44 IF(IJ.LE.0)IJ=1
44 WRITE(6,3) WHEN
44 WRITE (6,415)
44 NITP=1
475 DO 48 II=1,NGRPS
475 LG=NG(II)
475 DO 48 M=1,LG
475 READ(1TAPE)(DATA(L),L=1,LR ).DATA(100)
475 GO TO MUD,(490,417)
417 MESS=MESS+
417 K=DATA(100)
417 LL=LL+1
417 IF(LL.LE.IJ)GO TO 51
417 LL=1
417 WRITE(6,3) WHEN
417 WRITE (6,415)
51 WRITE (6,418)MESS,K
51 DO 52 L=1,NCARD
51 READ (NTAPE,114)(IX(KK),KK=1,8)
52 WRITE (6,250)(IX(KK),KK=1,8)
490 GO TO NSKIP,(49,50)
49 CALL TG41(II,M)

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NADC-77036-30

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50   K=DATA(100)                                     00002820
      WRITE(JTAPE)(DATA(INDEX2(JJ)),JJ=1,NVAR),DATA(100)
      IF(LYNN.GT.0) K=NSAM(K)
      DO 48 J=1,NVAR
      I=INDEX2(J)
      SSVAR(K,J)=SSVAR(K,J)+DATA(I)
      DO 48 N=1,NVAR
      L=INDEX2(N)
      TOTXX(J,N)=TOTXX(J,N)+(DATA(I)=DATA(L))
48  CONTINUE
      REWIND JTAP
      END FILE JTAP
      REWIND JTAP
      NT=0
      DO 54 I=1,NGRPS
      IL=I
      IF((NG(I)-NCOV-1).LE.0)GO TO 1440
      NT=NT+NG(I)
      54  CONTINUE
      DO 55 J=1,NVAR
      X(J)=0.0
      DO 55 I=1,NGRPS
      55  X(J)=X(J)+SSVAR(I,J)/NT
      BIG=NT
      DO 56 I=1,NVAR
      DO 56 J=1,NVAR
      TOTXX(I,J)=TOTXX(I,J)-BIG*X(I)*X(J)
      DO 56 K=1,NGRPS
      T=NG(K)
      TREXX(I,J)=TREXX(I,J)+(SSVAR(K,I)+SSVAR(K,J))/T
56  CONTINUE
      TREXX(I,J)=TREXX(I,J)-BIG*X(I)*X(J)
58  ERRXX(I,J)=TOTXX(I,J)-TREXX(I,J)
      DO 59 I=1,NGRPS
      D(I)=NG(I)
      DO 59 J=1,NVAR
      59  SSVAR(I,J)=SSVAR(I,J)/D(I)
      LL=0
      IK=NVAR/6
      IF((NVAR-IK*6).GT.0)IK=IK+1
      IJ=50/(2*IK-3)
      IF(IJ.LE.0)IJ=1
      WRITE(6,3) WHEN
      WRITE(6,117)
      DO 63 LT=1,NVAR
      LLL(LT)=2H(
      I=INDEX2(LT)
      DO 61 J=1,1NAM
      IF(I.EQ. INDEX1(J)) GO TO 625
615  CONTINUE
      NITP=
      WRITE(JTAPE,888)I
      REWIND JTAP
      READ(JTAPE,777) NAMES(LT)
      REWIND JTAP
      GO TO 63
625  NAMES(LT)=KKK(J)
63  CONTINUE
      DO 60 I=1,NGRPS
      LL=LL+1

      IF(LL.LE.IJ)GO TO 53
      LL=1
      WRITE(6,3) WHEN
      WRITE(6,117)
53  WRITE(6,118)I
60  WRITE(6,119)(LLL(J),NAMES(J),SSVAR(I,J),J=1,NVAR)
      WRITE(6,3) WHEN
      WRITE(6,70)
      DO 69 I=1,NVAR
69  WRITE(6,71) NAMES(I),X(I)
      IF(FCAST.EQ.A123) GO TO 99
      IF(CORR.NE.A123) GO TO 130
      DO 129 I=1,NVAR
      DO 129 J=1,NVAR
      TOTCC(I,J)=0.0
      TRECC(I,J)=0.0
      ERRC(I,J)=0.0
      TOT=TOTXX(I,I)*TOTXX(J,J)
      TRE=TREXX(I,I)*TREXX(J,J)
      ERR=ERRXX(I,I)*ERRXX(J,J)
      IF(TOT.LE..0)GO TO 128
      TOTCC(I,J)=TOTXX(I,J)/SQRT(TOT)
128  IF(TRE.LE..0)GO TO 135
      TRECC(I,J)=TREXX(I,J)/SQRT(TRE)
135  IF(ERR.LE..0)GO TO 129
      ERRC(I,J)=ERRXX(I,J)/SQRT(ERR)
129  CONTINUE
      WRITE(6,3) WHEN
      WRITE(6,127)
      WRITE(6,121)
      CALL PATTY2(TOTCC,NVAR,NAMES,1.)
      WRITE(6,3) WHEN
      WRITE(6,127)
      WRITE(6,123)
      CALL PATTY2(ERRCC,NVAR,NAMES,1.)
130  WRITE(6,3) WHEN
      WRITE(6,120)
      WRITE(6,121)
      CALL PATTY2(TOTXX,NVAR,NAMES,1.)
      WRITE(6,3) WHEN
      WRITE(6,120)
      WRITE(6,122)
      CALL PATTY2(TREXX,NVAR,NAMES,1.)
      WRITE(6,3) WHEN
      WRITE(6,120)
      WRITE(6,123)
      CALL PATTY2(ERRXX,NVAR,NAMES,1.)
      DO 64 I=1,NVAR
      TOTXY(I)=TOTXX(I,NVAR)
      TREXY(I)=TREXX(I,NVAR)
64  ERRXY(I)=ERRXX(I,NVAR)
      TOTYY=TOTXY(NVAR)
      TREYY=TREXY(NVAR)
      ERRYY=ERRXY(NVAR)
      K=0
      DO 72 I=1,NCOV
      DO 72 J=1,NCOV
      K=K+1
72  Z(K)=DBLE(TOTXX(J,I))
      CALL MINV(Z,NCOV,DT,IY,IZ)

```

```

K=0
DO 73 I=1,NCOV
DO 73 J=1,NCOV
K=K+1
73 TOTXX(J,I)=SNGL(Z(K))
K=0
DO 74 I=1,NCOV
DO 74 J=1,NCOV
K=K+1
74 Z(K)=DBLE(TREXX(J,I))
CALL MINV(Z,NCOV,DB,IY,IZ)
K=0
DO 75 I=1,NCOV
DO 75 J=1,NCOV
K=K+1
75 TREXX(J,I)=SNGL(Z(K))
K=0
DO 76 I=1,NCOV
DO 76 J=1,NCOV
K=K+1
76 Z(K)=DBLE(ERXXX(J,I))
CALL MINV(Z,NCOV,DE,IY,IZ)
K=0
DO 77 I=1,NCOV
DO 77 J=1,NCOV
K=K+1
77 ERXXX(J,I)=SNGL(Z(K))
WRITE(6,3) WHEN
WRITE (6,124)                                         00003490
WRITE (6,121)                                         00003500
CALL PATTY2(TOTXX,NCOV,NAMES,SNGL(DT))
WRITE(6,3) WHEN
WRITE (6,124)                                         00003520
WRITE (6,122)                                         00003530
CALL PATTY2(TREXX,NCOV,NAMES,SNGL(DB))
WRITE(6,3) WHEN
WRITE (6,124)                                         00003550
WRITE (6,123)                                         00003560
CALL PATTY2(ERXXX,NCOV,NAMES,SNGL(DE))
DO 65 I=1,NCOV                                         00003580
B(I)=0.0                                              00003590
C(I)=0.0                                              00003600
D(I)=0.0                                              00003610
DO 65 J=1,NCOV                                         00003620
B(I)+B(I)+ERRXX(I,J)*ERRXY(J)                         00003630
C(I)+C(I)+TOTXX(I,J)*TOTXY(J)                         00003640
D(I)+D(I)+TREXX(I,J)*TREXY(J)                         00003650
SSDTRE=0.0                                             00003660
SSDTOT=0.0                                             00003670
SSDERR=0.0                                             00003680
DO 66 I=1,NCOV                                         00003690
SSDERR=SSDERR+B(I)*ERRXY(I)                           00003700
SSDTRE=SSDTRE+D(I)*TREXY(I)                           00003710
66 SSDTOT=SSDTOT+C(I)*TOTXY(I)                         00003720
SSDTRE=SSDTOT-SSDERR                                 00003730
SSATRE=TREYY-SSDTOT                                 00003740
SSATOT=TOTYY-SSDTOT                                 00003750
SSAERR=ERRYY-SSDERR                                 00003760
N1=NGRPS-1                                           00003770
N2=BIG                                               00003780

N2=N2-NGRPS                                         00003790
N3=BIG-1.0                                           00003800
N4=N1                                               00003810
N5=N2-NCOV                                         00003820
N6=N3-NCOV                                         00003830
TEST=SSATOT-SSAERR                                00003840
DN4=M4                                              00003850
DN5=N5                                              00003860
DN6=N6                                              00003870
DN1=N1                                              00003880
SMATRE=SSATRE/DN4                                  00003890
SMAERR=SSAERR/DN5                                  00003900
ADUTES=TEST/DN1                                    00003910
FTEST=ADUTES/SMAERR                               00003920
SMATOT=SSATOT/DN6                                  00003930
CALL WRT(N1,N2,N3,N4,N5,N6,TREYY,ERRYY,TOTYY,SSDERR,SSAERR,SMAERR,00003940
*SSDTOT,SSATOT,TEST,FTEST,ADUTES,NCOV,SMATOT,BIG,NGRPS,NAMES,ERRXX,00003950
XTOTXX,TREXX,SMATRE,SSDTRE,SSATRE)
99 DO 604 I=1,NGRPS
VWG(I)=0.
SS(I)=0.
604 YY(I)=0.
WW=0.
VT=0.
VL=0.
DO 601 I=1,NT
READ(JTAPE)(DATA(J),J=1,NVAR),DATA(100)
K=DATA(100)
IF(LYNN.GT. 0) K=NSAM(K)
ZEST=YAC
YEST=A(K)
DO 600 J=1,NCOV
ZEST=ZEST+C(J)*DATA(J)
600 YEST=YEST+B(J)*DATA(J)
RES=DATA(NVAR)-YEST
RES1=DATA(NVAR)-ZEST
WRITE(8) RES
VWG(K)=VWG(K)+ABS(RES)
WW=WW+ABS(RES)
VT=VT+ABS(RES)
PVAR=100.*RES/YEST
IF(ABS(RES).LE.VL)GO TO 592
VL=ABS(RES)
VVL=RES
VEST=VEST
PAR=PVAR
DAT=DATA(NVAR)
IA=1
IB=K
592 SS(K)=SS(K)+(RES*RES)
YY(K)=YY(K)+((DATA(NVAR)-SSVAR(K,NVAR)))
C=(DATA(NVAR)-SSVAR(K,NVAR))
IF(WRES.NE. A123) GO TO 601
IF(MOD(I,50).NE.1)GO TO 599
WRITE(6,3) WHEN
WRITE(6,596)
WRITE(6,602)
599 WRITE(6,603)I,DATA(NVAR),YEST,RES,PVAR,K
601 CONTINUE
ENDFILE 8

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NADC-77036-30

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REWIND 8
WRITE(6,3) WHEN
WRITE(6,594)
WRITE(6,602)
WRITE(6,603)IA,DAT,VEST,VVL,PAR,IB
DO 598 I=1,NGRPS
VWG(I)=VWG(I)/FLOAT(NG(I)-1)
VW=VW/FLOAT(NT-1)
VT=VT/FLOAT(NT-1)
REWIND JTape
VL=0.
DO 608 I=1,NT
READ(JTape)(DATA(J),J=1,NVAR),DATA(100)
K=DATA(100)
IF(LYNN.GT.0) K=NSAM(K)
ZEST+=A(K)
YEST=YAC
DO 609 J=1,NCOV
ZEST+=ZEST+B(J)*DATA(J)
YEST+=YEST+C(J)*DATA(J)
RES=DATA(NVAR)-YEST
RES1=DATA(NVAR)-ZEST
WRITE(9) RES
PVAR=100.*RES/YEST
IF(ABS(PVAR).LE.VL)GO TO 593
VL=ABS(RES)
VVL=RES
VEST=YEST
PAR=PVAR
DAT=DATA(NVAR)
IA=1
593 IF(TRES.NE.A123) GO TO 608
IF(MOD(IA,50).NE.1)GO TO 610
WRITE(6,3) WHEN
WRITE(6,597)
WRITE(6,611)
610 WRITE(6,612)I,DATA(NVAR),YEST,RES,PVAR
608 CONTINUE
ENDFILE 9
REWIND 9
WRITE(6,3) WHEN
WRITE(6,595)
WRITE(6,611)
WRITE(6,612)IA,DAT,VEST,VVL,PAR
IF(MCOR.NE.A123)GO TO 634
WRITE(6,3) WHEN
IF((SSDERR/ERRYY).LT.0.)GO TO 632
SE=SORT(SSDERR/ERRYY)
IF(SE.GT.1.)GO TO 632
WRITE(6,627)SE
632 IF((SSDtot/10YY).LT.0.)GO TO 633
ST=SQRT(SSDtot/10YY)
IF(ST.GT.1.)GO TO 633
WRITE(6,628)ST
633 WRITE(6,629)
DO 631 I=1,NGRPS
IF((SS(I)/YY(I)).GT.1.)GO TO 631
SEW=SORT(1.-(SS(I)/YY(I)))
IF(SEW.GT.1.)GO TO 631
IF((MOD(IA,50).NE.1).OR.(I.EQ.1))GO TO 626

WRITE(6,3) WHEN
WRITE(6,629)
626 WRITE(6,630)I,SEW
631 CONTINUE
634 LN=0
552 REWIND JTape
REWIND 8
REWIND 9
DO 551 I=1,NGRPS
NCG(I)=NC(I)
551 SDWG(I)=0.
SDW=0.
SDT=0.
NC=NT
ND=NT
DO 557 I=1,NT
READ(JTape)(DATA(J),J=1,NVAR),DATA(100)
K=DATA(100)
IF(LYNN.GT.0) K=NSAM(K)
READ(8) RES
READ(9) RES1
IFI(VWG(K).LE.0.)GO TO 540
GS=.5*(RES/VWG(K))+RES/VWG(K)
IFI(GS.GT.12.5)GO TO 540
SG=SER(GS)/VWG(K)
SYG=EXP(GS)
GO TO 549
540 NCG(K)=NCG(K)-1
GO TO 550
549 SDWG(K)=SDWG(K)+(SYG/GS)
550 IF(VW.LE.0.)GO TO 541
SXX=.5*(RES/VW)+(RES/VW)
IFI(SXX.GT.12.5)GO TO 541
SX=SER(SXX)/VW
SY=EXP(SXX)
GO TO 554
541 NC=NC-1
GO TO 555
554 SDW=SDW+(SY/SX)
555 IF(VT.LE.0.)GO TO 542
SXA=.5*(RES1/VT)+(RES1/VT)
IFI(SXA.GT.12.5)GO TO 542
SA=SER(SXA)/VT
SY1=EXP(SXA)
GO TO 556
542 ND=ND-1
GO TO 557
556 SDT=SDT+(SY1/SA)
557 CONTINUE
DO 543 I=1,NGRPS
IFI((NCG(I).LE.0.).OR.(SDWG(I).LE.0.))GO TO 543
VWG(I)=.5*(VWG(I)+(SDWG(I)/FLOAT(NCG(I))))
543 CONTINUE
IFI((NC.LE.0.).OR.(SDW.LE.0.))GO TO 544
VW=.5*(VW/(SDW/FLOAT(NC)))
544 IF((ND.LE.0.).OR.(SDT.LE.0.))GO TO 545
VT=.5*(VT/(SDT/FLOAT(ND)))
545 LN=LN+1
IFI(LN.LT.20)GO TO 552
WRITE(6,3) WHEN

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NADC-77036-30

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        WRITE(6,301) VT
        WRITE(6,300) VW
        WRITE(6,302)
        DO 613 I=1,NGRPS
        IF((MOD(I,50).NE.1).OR.(I.EQ.1))GO TO 613
        WRITE(6,3) WHEN
        WRITE(6,302)
613  WRITE(6,303) I,VWG(I)
        IF((FCAST.EQ.A123).OR.((SSQ.NE.A123)))GO TO 618
        DO 606 I=1,NGRPS
        IF(MOD(I,50).NE.1)GO TO 614
        WRITE(6,3) WHEN
        WRITE(6,605)
614  XA=YY(I)-SS(I)
        IF((XA.LT.0.)GO TO 606
        IF((NG(I)-NCOV-I).GT.0)GO TO 617
        WRITE(6,607)I,YY(I),XA,SS(I)
        GO TO 606
617  XX=SORT(SS(I)/FLOAT(NG(I)-NCOV-I))
        WRITE(6,607)I,YY(I),XA,SS(I),XX
606  CONTINUE
618  NLAST=NTAPE
        REWIND JTAPE
        IF(VAR.NE.A123)GO TO 621
        WRITE(6,3) WHEN
        WRITE(6,419),
        MESS=0
        LL=0
        IK=NVAR/B
        IF((NVAR-IK*B).GT.0)IK=IK+1
        IJ=50/(IK+2)
        IF(IJ.LE.0)IJ=1
        DO 620 I=1,NT
        MESS=MESS+1
        READ(JTAPE)(DATA(J),J=1,NVAR),DATA(100)
        K=DATA(100)
        IF(LYNN.GT.0) K=NSAM(K)
        LL=LL+1
        IF(LL.LE.IJ)GO TO 616
        LL=1
        WRITE(6,3) WHEN
        WRITE(6,419)
616  WRITE(6,418)MESS,K
620  WRITE(6,249)(DATA(J),J=1,NVAR)
621  WRITE(6,5)
        GO TO 999
    70 FORMAT(/23H TABLE OF MEANS (TOTAL)//21H VARIABLE MEAN/)
    71 FORMAT(3X,A6,3X,E13.7)
125  FORMAT(/13H LABELS CARDS//)
126  FORMAT(7(6X,A4,A6))
127  FORMAT(19H-CORRELATION MATRIX)
594  FORMAT(//,26H MAXIMUM RESIDUAL (WITHIN))
595  FORMAT(//,25H MAXIMUM RESIDUAL (TOTAL))
596  FORMAT(//,28H TABLE OF RESIDUALS (WITHIN))
597  FORMAT(//,27H TABLE OF RESIDUALS (TOTAL))
602  FORMAT(/9H CASE NO.,6X,7HY VALUE,5X,10HY ESTIMATE,5X,8HRESIDUAL
1,X3,17HPERCENT VARIATION,2X,10HGROUP NO. / )
611  FORMAT(/9H CASE NO.,6X,7HY VALUE,5X,10HY ESTIMATE,5X,8HRESIDUAL
1,X3,17HPERCENT VARIATION / )
603  FORMAT(2X,I5,4X,E13.7,IX,E13.7,IX,E13.7,5X,F9.2,9X,I3)

612  FORMAT(2X,I5,4X,E13.7,IX,E13.7,IX,E13.7,5X,F9.2)
605  FORMAT(/50H TABLE OF SUM-SQUARES AND STANDARD ERRORS (WITHIN)//61
1H TREATMENT   YY      SUM-SQUARES  SUM-SQUARES  STANDARD/59H
2      NO.          (DUE)          (ABOUT)          ERROR./ )
607  FORMAT(1X,I5,3X,E13.7,IX,E13.7,IX,E13.7)
627  FORMAT(/,36H CORRELATION COEFFICIENT (TOTAL) = ,E16.10)
628  FORMAT(/,36H CORRELATION COEFFICIENT (WITHIN) = ,E16.10)
629  FORMAT(/,25H TREATMENT CORRELATION/,25H NO. COEFFICIE
1NT,/16X,BH(WITHIN)./)

630  FORMAT(1X,I5,6X,E16.10)
403  FORMAT(48H ONE NEGATIVE NUMBER IS ILLEGAL FOR NUMBER OF LABELS) 00004650
1090  FORMAT(26H THE VARIABLE FORMAT CARDS/)
1091  FORMAT(246,12,15,212,13,12,A3,13,43,12,4A3,3X,4A3,3I2) 00004690
1092  FORMAT(33H PROBLEM CODE.....,A6/ 00004700
1  33H NUMBER OF TREATMENT GROUPS.....,16/ 00004710
2  33H TOTAL NUMBER OF CASES.....,16/ 00004720
3  33H NUMBER OF CARDS PER CASE.....,16/ 00004730
4  33H NUMBER OF ENTERING VARIABLES.....,16/ 00004740
5  33H NUMBER OF VARIABLES ADDED.....,16/ 00004750
6  33H INDEX OF THE DEPENDENT VARIABLE.....,16/ 00004760
7  33H PRINT DATA INPUT.....,3X,A3/ 00004770
8  33H NUMBER OF VARIABLES NAMED.....,16/ 00004780
9  33H USE DATA CARDS OF LAST PROBLEM.....,3X,A3/ 00004790
* 33H NUMBER OF GROUP DEFINITION CARDS,16/
1  33H PRINT RESIDUALS (WITHIN).....,3X,A3/
2  33H PRINT RESIDUALS (TOTAL).....,3X,A3/
3  33H PRINT TRANSGENERATED VARIABLES.....,3X,A3/
4  33H PRINT CORRELATION MATRICES.....,3X,A3/
5  33H FORECAST DATA INPUT.....,3X,A3/
6  23H REWIND INPUT TAPE.....,3X,A3/
7  33H NUMBER OF TRANSGENERATION CARDS..,16/
8  33H SPECIFIED BCD TAPE NUMBER.....,16/
9  33H NUMBER OF VARIABLE FORMAT CARDS.,16)

104  FORMAT(/23H TRANS-GENERATION CARDS//)
105  FORMAT(30H CARD NEW TRANS OLD CONST./33H NO. VAR. CODE VAR(A00004840
1) OR VARI(B)//) 00004850
106  FORMAT(A6,I3,I2,I3,F6.0) 00004860
107  FORMAT(I4,I5,I6,I5,4X,F10.5) 00004870
108  FORMAT(A6,22I3) 00004880
109  FORMAT(A6,22A3)
110  FORMAT(23H GROUP DEFINITION CARDS) 00004900
111  FORMAT(A6,I2,6(I2,A2,F5.0,A1)) 00004910
112  FORMAT(/20H A CASE IS IN GROUP I2,4H IF,) 00004920
113  FORMAT(15H VAR(I2,5M) IS A2,1H F10.5,1H A1) 00004930
114  FORMAT(8A10) 00004940
115  FORMAT(/26H GROUP NO. SAMPLE/25H SPECIFIED ASSIGNED* SIZE00004950
1//) 00004960
116  FORMAT(5X,I2,7X,I2,4X,I5) 00004970
117  FORMAT(/,30H VARIABLE MEANS FOR EACH GROUP//)
118  FORMAT(/1H GROUP NO. I2/) 00005020
119  FORMAT(6(A2,A6,E13.7,*=*)/) 00005030
120  FORMAT(41H-SUMS OF SQUARES AND CROSS PRODUCT MATRIX) 00005040
121  FORMAT(1H FOR TOTAL//) 00005050
122  FORMAT(15H FOR TREATMENT//) 00005060
123  FORMAT(11H FOR ERROR//) 00005070
124  FORMAT(26H-INVERSE OF THE COVARIATES/21H CROSS PRODUCT MATRIX) 00005080
150  FORMAT(1H029X20HTRANSGENERATION CARDS,35H HAS INVALID CODE FOR TH00005390
11S PROGRAM.) 00005400
151  FORMAT(6X,36I2)
152  FORMAT(A6,36A2)

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NADC-77036-30

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153 FORMAT(//,1H ,A6,36A2)
154 FORMAT(/28H COVARIATE SELECTION CARDS)
155 FORMAT(/10H SAMPLE SIZE CARDS//)
157 FORMAT(1X,A6, 22A3)
249 FORMAT(1H 8E13.7)
250 FORMAT(1H 8A10)
300 FORMAT(/,31H STANDARD DEVIATION (WITHIN) = ,E16.10)
301 FORMAT(/,31H STANDARD DEVIATION (TOTAL) = ,E16.10)
302 FORMAT(/,10H TREATMENT,6X,8HSTANDARD,/,.3X,3HNO.,9X,9HDEVIATION,/
   1,16X,8HWITHIN),/)
303 FORMAT(1X,15.5X,E16.10)
415 FORMAT(/11H DATA INPUT)
419 FORMAT(/15H TRANSGENERATED/11H DATA INPUT)
418 FORMAT(13HOCASE NUMBER 15.45X.13HGROUP NUMBER 15)
777 FORMAT(A6)                               00005470
888 FORMAT(3H X(.12,1H))                   00005480
9999 FORMAT(1H0,23X,7IHNNUMBER OF VARIABLE FORMAT CARDS INCORRECTLY SPEC00005490
IIFIED, ASSUMED TO BE 1.)                  00005500
END                                         00005520

```

```

C ..... MINV 10
C ..... MINV 20
C ..... MINV 30
C ..... MINV 40
C ..... MINV 50
C ..... MINV 60
C ..... MINV 70
C ..... MINV 80
C ..... MINV 90
C ..... MINV 100
C ..... MINV 110
C ..... MINV 120
C ..... MINV 130
C ..... MINV 140
C ..... MINV 150
C ..... MINV 160
C ..... MINV 170
C ..... MINV 180
C ..... MINV 190
C ..... MINV 200
C ..... MINV 210
C ..... MINV 220
C ..... MINV 230
C ..... MINV 240
C ..... MINV 250
C ..... MINV 260
C ..... MINV 270
C ..... MINV 280
C ..... MINV 290
C ..... MINV 300
C ..... MINV 310
C ..... MINV 320
C ..... MINV 330
C ..... MINV 340
C ..... MINV 350
C ..... MINV 360
C ..... MINV 370
C ..... MINV 380
C ..... MINV 390
C ..... MINV 400
C ..... MINV 410
C ..... MINV 420
C ..... MINV 430
C ..... MINV 440
C ..... MINV 450
C ..... MINV 460
C ..... MINV 470
C ..... MINV 480
C ..... MINV 490
C ..... MINV 500
C ..... MINV 510
C ..... MINV 520
C ..... MINV 530
C ..... MINV 540
C ..... MINV 550
C ..... MINV 560
C ..... MINV 570
C ..... MINV 580
C ..... MINV 590
C ..... MINV 600

SUBROUTINE MINV

PURPOSE
    INVERT A MATRIX

USAGE
    CALL MINV(A,N,D,L,M)

DESCRIPTION OF PARAMETERS
    A - INPUT MATRIX, DESTROYED IN COMPUTATION AND REPLACED BY
        RESULTANT INVERSE.
    N - ORDER OF MATRIX A
    D - RESULTANT DETERMINANT
    L - WORK VECTOR OF LENGTH N
    M - WORK VECTOR OF LENGTH N

REMARKS
    MATRIX A MUST BE A GENERAL MATRIX

SUBROUTINES AND FUNCTION SUBPROGRAMS REQUIRED
    NONE

METHOD
    THE STANDARD GAUSS-JORDAN METHOD IS USED. THE DETERMINANT
    IS ALSO CALCULATED. A DETERMINANT OF ZERO INDICATES THAT
    THE MATRIX IS SINGULAR.

SUBROUTINE MINV(A,N,D,L,M)
DIMENSION A(1),L(1),M(1)

IF A DOUBLE PRECISION VERSION OF THIS ROUTINE IS DESIRED, THE
C IN COLUMN 1 SHOULD BE REMOVED FROM THE DOUBLE PRECISION
STATEMENT WHICH FOLLOWS.

DOUBLE PRECISION A,D,BIGA,HOLD

THE C MUST ALSO BE REMOVED FROM DOUBLE PRECISION STATEMENTS
APPEARING IN OTHER ROUTINES USED IN CONJUNCTION WITH THIS
ROUTINE.

THE DOUBLE PRECISION VERSION OF THIS SUBROUTINE MUST ALSO
CONTAIN DOUBLE PRECISION FORTRAN FUNCTIONS. ABS IN STATEMENT
10 MUST BE CHANGED TO DABS.

SEARCH FOR LARGEST ELEMENT

D=1.0
NK=N
DO 80 K=1,N
NK=NK+1
L(K)=K

```

```

      N(K)=K
      KK=NN+K
      BIGA=A(KK)
      DO 20 J=K,N
      IZ=N+(J-1)
      DO 20 I=K,N
      IJ=IZ+I
      IF(DABS(BIGA)-DABS(A(IJ))) 15,20,20
      15 BIGA=A(IJ)
      L(K)=I
      M(K)=J
      20 CONTINUE
C     INTERCHANGE ROWS
      J=L(K)
      IF(J-K) 35,35,25
      25 K1=K+N
      DO 30 I=1,N
      K1=K1+N
      HOLD=A(K1)
      J1=K1-K+J
      A(K1)=A(J1)
      30 A(J1)=HOLD
C     INTERCHANGE COLUMNS
      35 I=M(K)
      IF(I-K) 45,45,38
      38 JP=N+(I-1)
      DO 40 J=1,N
      JK=NN+J
      JI=JP+J
      HOLD=A(JK)
      A(JK)=A(JI)
      40 A(JI)=HOLD
C     DIVIDE COLUMN BY MINUS PIVOT (VALUE OF PIVOT ELEMENT IS
C     CONTAINED IN BIGA)
      45 IF(BIGA) 48,46,48
      46 D=0.0
      RETURN
      48 DO 55 I=1,N
      IF(I-K) 50,55,50
      50 IK=NN+I
      A(IK)=A(IK)/(-BIGA)
      55 CONTINUE
C     REDUCE MATRIX
      DO 65 I=1,N
      IK=NN+I
      HOLD=A(IK)
      IJ=I-N
      DO 65 J=1,N
      IJ=IJ+N
      IF(I-J) 60,65,60
      60 IF(I-J-K) 62,65,62
      62 KJ=IJ-I+K

      A(IJ)=HOLD+A(KJ)+A(IJ)
      65 CONTINUE
C     DIVIDE ROW BY PIVOT
      KJ=K-N
      DO 75 J=1,N
      KJ=KJ+N
      IF(J-K) 70,75,70
      70 A(KJ)=A(KJ)/BIGA
      75 CONTINUE
C     PRODUCT OF PIVOTS
      D=D*BIGA
C     REPLACE PIVOT BY RECIPROCAL
      A(KK)=1.0/BIGA
      80 CONTINUE
C     FINAL ROW AND COLUMN INTERCHANGE
      K=N
      100 K=(K-1)
      IF(K) 150,150,105
      105 I=(K)
      IF(I-K) 120,120,108
      108 JQ=N+(K-1)
      JR=N+(I-1)
      DO 110 J=1,N
      JK=JQ+J
      HOLD=A(JK)
      JI=JR+J
      A(JK)=-A(JI)
      110 A(JI)=HOLD
      120 J=M(K)
      IF(J-K) 100,100,125
      125 KI=N
      DO 130 I=1,N
      KI=KI+N
      HOLD=A(KI)
      JI=KI-K+J
      A(KI)=-A(JI)
      130 A(JI)=HOLD
      GO TO 100
      150 RETURN
      END
      MINV 610
      MINV 620
      MINV 630
      MINV 640
      MINV 650
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NADC-77036-30

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C      SUBROUTINE GRPSEL FOR BMDO4V          APRIL 1, 1966    00005900
      SUBROUTINE GRPSEL(M)                  00005910
      DIMENSION DATA(100), NSUB(99,6), CONT(99,6), REL(99,6), OPER(99,6), B(6) 00005920
      I, NG(99), E(7)
      COMMON DATA   , NSUB   , CONT   , REL   , OPER   , NG   , 00005930
      DATA A,0,STAR,E/4HA .4HO .4H# .4HGT .4HLT .4HLE .4HGE . 00005950
      1 2HEQ,2HNE,2H /
      FB=1.0
      ASSIGN 105 TO ISKIP
 500  DO 90 I=1,6
      IS=NSUB(M,I)
      IF(REL(M,I) .EQ. E(1)) GO TO 2
      IF(REL(M,I) .EQ. E(2)) GO TO 4
      IF(REL(M,I) .EQ. E(3)) GO TO 6
      IF(REL(M,I) .EQ. E(4)) GO TO 8
      IF(REL(M,I) .EQ. E(5)) GO TO 10
      IF(REL(M,I) .EQ. E(6)) GO TO 11
      IF(REL(M,I) .EQ. E(7)) GO TO 100
 96   WRITE (6,4000) REL(M,I)
      M=-6
      GO TO 104
 2  IF(DATA(I$)-CONT(M,I))50,50,20
 4  IF(DATA(I$)-CONT(M,I))20,50,50
 6  IF(DATA(I$)-CONT(M,I))20,20,50
 8  IF(DATA(I$)-CONT(M,I))50,20,20
10  IF(DATA(I$)-CONT(M,I))50,20,50
11  IF(DATA(I$)-CONT(M,I))20,50,20
20  B(I)=1.0
      GO TO 90
50  B(I)=0.0
90  CONTINUE
100 GO TO ISKIP,(105,125)
125 IF(OPER(M-1,6) .NE. A) GO TO 150
      FB=FB+B(I)
      GO TO 175
105 IF(OPER(M,1) .EQ. A) GO TO 147
      IF(OPER(M,1) .NE. 0) GO TO 170
147 FB=B(I)
      GO TO 175
150 IF(OPER(M-1,6) .EQ. 0) GO TO 152
      I = 6
      REL(M,6)=OPER(M-1,6)
      GO TO 96
170 FB=B(I)
      GO TO 350
152 IF(FB .LE. 0.) GO TO 147
175 DO 300 I=1,5
      IF(OPER(M,I) .NE. A) GO TO 222
      FB = FB+B(I+1)
      GO TO 300
222 IF(OPER(M,I) .NE. 0) GO TO 333
      IF(FB .GT. 0.) GO TO 300
      FB=B(I+1)
300 CONTINUE
      IF(OPER(M,6) .EQ. STAR) GO TO 350
      M=M+1
      ASSIGN 125 TO ISKIP
      GO TO 500
333 IF(OPER(M,I) .EQ. STAR) GO TO 350
      REL(M,I)=OPER(M,I)

      GO TO 96
350 IF(FB .LE. 0.) GO TO 104
      DATA(100) = NG(M)
      104 RETURN
4000 FORMAT(1H014X30HILLEGAL OPERATION OR RELATION A2,57H. PROGRAM WILL 00006540
      1 PROCEED TO NEXT JOB, IF ANY, OR TERMINATE.)
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      00015440
      00015450
     
```

NADC-77036-30

C	SUBROUTINE PATTY2 FOR BMDO4V	APRIL 1, 1966	00006570
	SUBROUTINE PATTY2 (A,N,NAMES,D)		00006590
	DIMENSION NAMES(36),NW(8).A(36,36),WHEN(3)		00006600
	REAL NAMES,NW		
	CALL LDAY(WHEN)		
	K=0		
	IK=50/(N+3)		
	IF(IK.LE.0)IK=1		
	IT=1		00006610
	KK=0		00006620
	K1=IT		00006630
	K2=MINO(8,N)		00006640
10	KK=KK+8		00006650
	IF(N.LE.KK) GO TO 20		00006660
	IT=IT+1		00006670
	GO TO 10		00006680
20	DO 70 JJ=1,IT		00006690
	LLL*K2-K1+1		00006700
	LL=0		00006710
	DO 30 JJ=K1,K2		00006720
	LL=LL+1		00006730
30	NW(LL)=NAMES(JJ)		00006740
	K=K+1		
	IF(K.LE.IK)GO TO 31		
	K=1		
	WRITE(6,71) WHEN		
31	WRITE (6,50) (NW(I),I=1,LLL)		
	WRITE (6,80)		
	DO 40 I=1,N		00006760
40	WRITE (6,60) NAMES(I),(A(I,J),J=K1,K2)		00006770
	K1=K2+1		00006780
	K2=K1+7		00006790
	K2=MINO(K2,N)		00006800
50	FORMAT(1H0,13X,A6,7(BX,A6))		
60	FORMAT(1H,A6,1X,BE14.7)		
80	FORMAT(1H)		
90	FORMAT(/17H SINGULAR MATRIX.)		
70	CONTINUE		00006830
71	FORMAT(1H,105X,3A10,7(/))		
	IF(D .EQ. 0.) WRITE (6,90)		
	RETURN		00006840
	END		00006850

	SUBROUTINE TG41(II,M)	00006860
19	DIMENSION DATA(100),NSUB(99,6),CONT(99,6),REL(99,6),OPER(99,6),NG(90006870	
	19),NEW(99),JUMP(99),NA(99),BN(99)	00006880
	COMMON DATA , NSUB , CONT , REL , OPER , NG	00006890
	COMMON LH , NEW , JUMP , NA , BN , IERROR	00006900
	COMMON NVAR , NTG , NCASE	00006910
	EXTERNAL SIGN	00006915
	ASN(X) = ATAN(X/SQRT(1.-X**2))	00006920
	SAMPX*NCASE	00006930
	P12=1.57079633	00006940
	DO 1010 I=1,NTG	00006950
	JOKE=JUMP(I)	00006960
	NW=NEW(I)	00006970
	IFI(NW .GE. 100) GO TO 97	00006980
	NAA=NA(I)	00006990
	IFI(NAA .GE. 100) GO TO 97	00007000
100	NB=BN(I)	00007010
	BBN=BN(I)	00007020
	D1=DATA(NAA)	00007030
	IFI(JOKE .LE. 17) GO TO 33	00007040
	JOKE=JOKE-2	00007050
	IFI(JOKE .LE. 22) GO TO 33	00007060
	JOKE=23	00007070
33	GO TO (1,2,3,4,5,6,7,8,9,10,11,11,11,11,150,111,170,180,190,2000007080	
	1,21,22,230),JOKE	00007090
1	IF(D1)99,11,12	00007100
11	D2=0.0	00007110
	GO TO 1000	00007120
12	D2=SQRT(D1)	00007130
	GO TO 1000	00007140
2	IF(D1)99,13,14	00007150
13	D2=1.0	00007160
	GO TO 1000	00007170
14	D2 =SQRT(D1)+SQRT(D1 +1.0)	00007180
	GO TO 1000	00007190
3	IF(D1 .LE. 0.) GO TO 99	00007200
	D2=ALOG10(D1)	00007210
	GO TO 1000	00007220
4	D2=EXP(D1)	00007230
	GO TO 1000	00007240
5	IF(D1)99,11,17	00007250
17	IF(D1 -1.0)18,19,99	00007260
19	D2=P12	00007270
	GO TO 1000	00007280
18	A=SORT(D1)	00007290
	D2=ASN(A)	00007300
	GO TO 1000	00007310
6	A= D1 /(SAMPX+1.0)	00007320
	B=A+1.0/(SAMPX+1.0)	00007330
	IF(A)98,27,24	00007340
27	D2 =ASN(SQRT(B))	00007350
	GO TO 1000	00007360
24	IF(B)99,28,29	00007370
	D2 =ASN(SQRT(A))+2.0	00007380
285	GO TO 1000	00007390
	D2 =3.14159265	00007400
287	GO TO 1000	00007410
	A=SQRT(A)	00007420
	B=SQRT(B)	00007430
		00007440

NADC-77036-30

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IF(A .GT. 1. .OR. B .GT. 1.) GO TO 99          00007450
      D2 = ASN(A)+ASN(B)
      GO TO 1000
7 IF(   D1    ,EQ. 0.) GO TO 99          00007460
      D2 = 1.0/D1
      GO TO 1000
8 D2=D1+BBN
      GO TO 1000
9 D2=D1*BBN
      GO TO 1000
10 IF(   D1    )99,11,32          00007470
12 D2=D1*#BBN
      GO TO 1000
111 IF(NB .GE. 100) GO TO 97          00007480
      NSKIP=JOKER=10
      GO TO(110,120,130,140,150,160),NSKIP
110 D2 = D1 +DATA(NB)          00007490
      GO TO 1000
120 D2 = D1 -DATA(NB)          00007500
      GO TO 1000
130 D2 = D1 #DATA(NB)          00007520
      GO TO 1000
140 IF(DATA(NB) .EQ. 0.) GO TO 98          00007530
      D2 = D1 /DATA(NB)
      GO TO 1000
150 IF(   D1    -BBN)11,13,13          00007540
160 IF(   D1    -DATA(NB))11,13,13          00007550
170 IF(   D1    ,LE. 0.) GO TO 99          00007560
      D2 = ALDG(D1)
      GO TO 1000
180 D2 = SIN(D1)
      GO TO 1000
190 D2 = COS(D1)
      GO TO 1000
20 D2=ATAN(D1)
      GO TO 1000
21 IF(   D1    )99,11,38          00007570
33 IF(NB .GE. 100) GO TO 97          00007580
      D2=D1*#DATA(NB)
      GO TO 1000
22 IF(BBN)99,11,40          00007590
40 D2=BBN*D1
      GO TO 1000
230 IF(   D1    ,NE. 0.) GO TO 1000
      IF(SIGN(10.0, D1 ))43,1000,1000
43 D2=BBN
      GO TO 1000
97  WRITE (6,4001)I
      GO TO 991
98  NAA=N8
99  WRITE (6,4000)NAA,JUMP(I),II,M          00007600
991 WRITE (6,4002)
      GO TO 1010
1000 DATA(MW)=D2          00007610
1010 CONTINUE
      RETURN
4000 FORMAT(17H0DATA OF VARIABLE I4,30H VIOLATES RESTRICTION FOR CODE I3,00008020
130H. THIS WAS FOR TREATMENT GROUP I3,7H SAMPLE I4)          00008030
4001 FORMAT(20H0TRANSGENERATOR CARD I3,44H HAS VARIABLE NUMBERS TOO LARGO00008040
IE FOR PROGRAM.)          00008040
                                         00008050
4002 FORMAT(32H THE DATA WILL REMAIN UNCHANGED.)          00008060
      END
                                         00008070

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NADC-77036-30

C	SUBROUTINE TPWD FOR BMDO4V	APRIL 1, 1966	00008280
	SUBROUTINE TPWD(NT1,NT2)		00008090
	IF(NT1)40,10,12		00008100
10	NT1=5		00008110
12	IF(NT1 .EQ. NT2) GO TO 19		00008120
	IF(NT2.EQ.5)GO TO 18		00008130
	REWIND NT2		00008140
18	IF(NT1 .EQ. 5) GO TO 24		00008150
19	IF(NT1 .EQ. 6) GO TO 40		00008160
	REWIND NT1		00008170
24	NT2=NT1		00008180
	RETURN		00008190
40	WRITE (6,49)		00008200
	STOP		00008210
49	FORMAT(25H ERROR ON TAPE ASSIGNMENT)		00008220
	END		00008225

```

SUBROUTINE WRT(N1,N2,N3,N4,N5,N6,TREYY,ERRYY,TOTYY,SSDERR,SSAERR, 00008230
1SMAERR,SSDTOT,SSATOT,TEST,FTEST,ADJTES,NCOV,SMATOT,BIG,NCRPS,NAMES$00008240
2,ERRXX,TOTXX,TREXX,SMATRE,SSDTRE,SSATRE)
REAL NAMES
DIMENSION DATA(100), NSUB(99,6), CONT(99,6), REL(99,6), OPER(99,6), 00008270
*NG(99), X(36), SSUAR(99,36), TOTXX(36,36), ERRXX(36,36), B(35), C(35),
1D(35), SEB(35), SEC(35), ADY(99), SEADY(99), NAMES(36), A(99)
2,TREXX(36,36), SED(35), WHEN(3)
COMMON DATA,NSUB,CONT,REL,OPER,NG
COMMON LH,NEW(99),JUMP(99),NA(99),BN(99),IERORR
COMMON NVAR,NTG,NCASE
COMMON /WT/A,B,C,D,SEB,SEC,SED,SSVAR,ADY,SEADY,YAC,WHEN
PRINT 124,WHEN
PRINT 125
PRINT 126
PRINT 127
PRINT 128
PRINT 129
PRINT 127
PRINT 130
PRINT 127
PRINT 131
PRINT 132,N1,TREYY
PRINT 127
PRINT 130
PRINT 127
PRINT 133,N2,ERRYY,SSDERR,SSAERR,N5,SMAERR
PRINT 134
PRINT 130
PRINT 127
PRINT 131
PRINT 136,N3,TOTYY,SSDTOT,SSATOT,N6,SMATOT
PRINT 137
PRINT 127
PRINT 130
PRINT 127
PRINT 138 ,TEST,N1,ADJTES
PRINT 127
PRINT 126
PRINT 139
PRINT 140 ,N1,N5,FTEST
PRINT 124,WHEN
PRINT 141
PRINT 142
PRINT 143
PRINT 143
124 FORMAT(1H1,10X,3A10)
125 FORMAT(35X,28HANALYSIS OF COVARIANCE TABLE/) 00008630
126 FORMAT(1H 93(1H))
127 FORMAT(2H *.,1IX,1HI,7X,1HI,3(15X,1HI),7X,1HI,15X,1H*) 00008640
128 FORMAT(2H *.,1IX,1HI,7X,1HI,15X,33HI SUM-SQUARES I SUM-SQUARES 00008650
*1,7X,1HI,15X,1H*)
129 FORMAT(94H * SOURCE I DF I YY I (DUE) I 00008660
* (ABOUT) I DF I MEAN-SQUARE *) 00008670
130 FORMAT(2H *.,91(1H),1H*) 00008680
131 FORMAT(1H * TREATMENT I,7X,1HI,3(15X,1HI),7X,1HI,15X,1H*) 00008690
132 FORMAT(1H * (BETWEEN) I,15,1H .2HI ,E13.7,1H .2(2HI ,13X,1H ),2H
*1,5X,3H I ,13X,2H *)
133 FORMAT(1H * ERROR I ,15,1X,3(2HI E13.7,1H ),2HI 15,3H I E13.7
X,2H *) 00008700
134 FORMAT(1H * (WITHIN) I,7X,1HI,3(15X,1HI),7X,1HI,15X,1H*) 00008710

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NADC-77036-30

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136 FORMAT(15H * + ERROR I ,15.1X,3(2HI E13.7,1H ),2HI 15.3H I E13.7
X,2H *)
137 FORMAT(14H * (TOTAL) I,7X,1HI,3(15X,1HI),7X,1HI,15X,1HI)
138 FORMAT(55H *DIFFERENCE FOR TESTING ADJUSTED TREATMENT MEANS...I E
*13.7,3H I ,15.3H I ,E13.7,2H *)
139 FORMAT//54HNULL HYPOTHESIS. NO DIFFERENCE AMONG TREATMENTS AFTER00008820
*/18A,26HADJUSTING WITH COVARIATES//) 00008830
140 FORMAT(18X,2HF,(15,1H,15,2H)*,F8.3//) 00008840
142 FORMAT(1H 16X,19HTREATMENT (BETWEEN//)
DO 68 I=1,NCOV 00008870
SED(I)=SMATRE*TREXX(I,I)
IF(SED(I).GT.0.)GO TO 65
PRINT 144,NAMES(I),D(I)
GO TO 68
65 SED(I)=SORT(SED(I))
I=D(I)/SED(I)
CALL CONF(M4,T,P)
PRINT 144,NAMES(I),D(I),SED(I),T,P
68 CONTINUE
PRINT 124,WHEN
PRINT 141 00008890
PRINT 145 00008900
PRINT 143 00008910
DO 69 I=1,NCOV 00008920
SEB(I)=SMAERR*ERRXX(I,I)
IF(SEB(I).GT.0.)GO TO 66 00008930
PRINT 144,NAMES(I),B(I)
GO TO 69
66 SEB(I)=SQRT(SEB(I))
I=B(I)/SEB(I)
CALL CONF(M5,T,P) 00008950
PRINT 144,NAMES(I),B(I),SEB(I),T,P
69 CONTINUE
PRINT 124,WHEN
PRINT 141 00008970
PRINT 146 00008980
PRINT 143 00008990
DO 70 I=1,NCOV 00009000
SEC(I)=SMATOT*TOTXX(I,I)
IF(SEC(I).GT.0.)GO TO 67 00009010
PRINT 144,NAMES(I),C(I)
GO TO 70
67 SEC(I)=SORT(SEC(I))
I=C(I)/SEC(I)
CALL CONF(M6,T,P)
PRINT 144,NAMES(I),C(I),SEC(I),T,P
70 CONTINUE
DO 82 I=1,NVAR 00009060
X(I)=0.0
DO 82 J=1,NGRPS
T1=NG(J) 00009080
821 X(I)=X(I)+SSVAR(J,I)*T1/BIG 00009090
DO 72 J=1,NGRPS 00009100
SEADY(J)=1.
T=0.0 00009110
T1=NG(J) 00009120
T1=1.0/T1 00009130
DO 71 I=1,NCOV 00009140
T=T+B(I)*(SSVAR(J,I)-X(I)) 00009150
ADY(J)=SSVAR(J,NVAR)-T 00009160

DO 73 I=1,NCOV 00009170
DO 73 K=1,NCOV 00009180
73 T=T+(SSVAR(J,I)-X(I))*ERRXX(I,K)*(SSVAR(J,K)-X(K)) 00009190
IF(SMAERR*T1.LT.0.) GO TO 72
SEADY(J)=SQRT(SMAERR*T1) 00009200
72 CONTINUE
DO 76 I=1,NGRPS 00009230
IF(MOD(I,50).NE.1)GO TO 74
PRINT 124,WHEN
PRINT 147
PRINT 148
74 IF(SEADY(I).GE.0.) GO TO 75
PRINT 149,I,SSVAR(I,NVAR),ADY(I)
GO TO 76
75 PRINT 149,I,SSVAR(I,NVAR),ADY(I),SEADY(I) 00009240
76 CONTINUE
YAC=X(NVAR)
YAD=X(NVAR)
DO 79 I=1,NCOV
YAC=YAC-C(I)*X(I)
79 YAD=YAD-D(I)*X(I)
PRINT 124,WHEN
PRINT 150
PRINT 154,YAD
PRINT 155,YAC
PRINT 151
LL=0
DO 78 I=1,NGRPS
LL=LL+1
A(I)=SSVAR(I,NVAR)
DO 77 J=1,NCOV
77 A(I)+A(I)-B(J)*SSVAR(I,J)
IF(LL.LE.45)GO TO 78
LL=1
PRINT 124,WHEN
PRINT 150
PRINT 151
78 PRINT 153,I,A(I)
141 FORMAT(/60HTABLE OF COEFFICIENTS, STANDARD ERRORS AND COMPUTED T-00009250
*VALUES//) 00009260
143 FORMAT(1H 10X,56HCOEFFICIENT STAND. ERROR T-VALUE CON
1FIDENCE//)
144 FORMAT(1H ,A6,1X,E16.10,E16.10,1X,F11.5,X,F9.5)
145 FORMAT(1H 23X,14HERROR (WITHIN//)
146 FORMAT(1H 18X,23HTREATMENT+ERROR (TOTAL//)
147 FORMAT(44H TABLE OF ADJUSTED MEANS AND STANDARD ERRORS//) 00009310
148 FORMAT(45H TREATMENT TREATMENT ADJUSTED SE ADJUSTED/6H N
*0.7X,4HMEAN5X,4HMEAN//)
149 FORMAT(1H ,15,0X,E13.7,1X,E13.7,IX,E13.7)
150 FORMAT(20H TABLE OF INTERCEPTS//)
151 FORMAT(23H TREATMENT INTERCEPT/23H NO. (WITHIN//)
154 FORMAT(26H INTERCEPT = ,E16.10/23H (BETW
1EEN)//)
155 FORMAT(26H INTERCEPT = ,E16.10/22H (TOT
1AL)//)
153 FORMAT(1H ,15,5X,E16.10)
RETURN 00009350
END 00009360

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NADC-77036-30

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SUBROUTINE LDAY(MDAY)
DIMENSION MDAY(3), LONG(7), MONTH(12), IBREV(7)
DATA MONTH / SH MAR, SH APR, SH MAY, SH JUN, SH JUL, SH AUG,
1 SH SEP, SH OCT, SH NOV, SH DEC, SH JAN, SH FEB/
DATA LONG / 1OH SUNDAY,,1OH MONDAY,,1OH TUESDAY.,
1 1OH WEDNESDAY,,1OH THURSDAY,,1OH FRIDAY,,1OH SATURDAY./
DATA IBREV / 1OH SUN,,1OH MON,,1OH TUE,,1OH
1 1OH WED,,1OH THU,,1OH FRI,,1OH SAT./
1 FORMAT(3(1X12))
2 FORMAT(46,12.4H, 19.12)
3 FORMAT(14)
I = 3
GO TO 4
ENTRY SDAY
I = 1
4 CALL DATE(DAY)
DECODE(10,1,DAY)IY,IM,1D
IA = IM
IF( ID.LE.31 ) GO TO 5
IM = IY
IY = ID
ID = IA
5 IM = IM + 10
IF( IM.GT.12 ) IM = IM - 12
ENCODE(20,2,MDAY(2))MONTH(IM),ID,IY
DECODE(10,3,MDAY(3))NYEAR
IF( IM.GE.11 ) NYEAR = NYEAR - 1
NC = NYEAR/100
ND = NYEAR - 100*NC
IC = 2.59 * FLDAT( IM )
IC = IC + ND/4
IC = MOD(IC + ID - NC - NC + ND + NC/4.7)
IF( IC.LT.0 ) IC = IC + 7
IF( I - 1 ) 7, 7, 6
6 MDAY(1) = LONG( IC+1 )
RETURN
7 MDAY(1) = IBREV ( IC+1 )
RETURN
END

```

```

SUBROUTINE CONF(N,T,P)
P= 5
IF(N.LT.1) GO TO 6
RPI=.318309862
TP=ABS(T)/SQRT(FLOAT(N))
I=N-2*(N/2)
IF(I.EQ.1) GO TO 3
P=P+.5*TP/SQRT(1.+(TP*TP))
IF(N.EQ.2) GO TO 6
DO 2 I=4,N,2
AK=1.
DO 1 J=4,I,2
AK=AK*(FLOAT(J-3))/(FLDAT(J-2))
1 CONTINUE
P=P+.5*TP/SQRT(1.+(TP*TP))*(AK*((1.+(TP*TP))*((2-I)/2)))
2 CONTINUE
GO TO 6
3 P=P+RPI*ATAN(TP)
IF(N.EQ.1) GO TO 6
P=P+(RPI*TP/(1.+(TP*TP)))
IF(N.EQ.3) GO TO 6
DO 5 I=5,N,2
AK=1.
DO 4 J=5,I,2
AK=AK*(FLOAT(J-3))/(FLDAT(J-2))
4 CONTINUE
P=P+(RPI*TP/(1.+(TP*TP)))*(AK*((1.+(TP*TP))*((3-I)/2)))
5 CONTINUE
6 P=100.*P
RETURN
END

```

NADC-77036-30

A P P E N D I X C

ANALYSIS OF COVARIANCE COMPUTER PROGRAM USER'S GUIDE

NADC-77036-30

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T A B L E O F C O N T E N T S

	<u>Page</u>
Description	C-4
Order of Cards in Job Deck.	C-6
Deck Set-up	C-7
Forecast Data Job Deck.	C-8
Forecast Deck Set-up.	C-9
Preparation of Program Control Cards.	C-10
Problem Card	C-10
Transgeneration Cards.	C-12
Transgeneration List.	C-13
Card Preparation.	C-15
Group Definition Cards	C-15
Sample Size Cards.	C-16
Labels Cards	C-17
Variable Format Cards.	C-17
F-Type Variable Format.	C-18
Scaling	C-20
nFw.d Specification.	C-20
SPnFw.d Specification.	C-20
Mixed nFw.d & SPnFw.d Specifications	C-21
Data Input Cards	C-21
Covariate Selection Cards.	C-23
Tape Input.	C-23

ANALYSIS OF COVARIANCE WITH MULTIPLE COVARIATES AND
FORECAST CAPABILITY

DESCRIPTION

1. This program is designed to compute Analysis-of-Covariance information for one Analysis-of-Variance Variable with multiple Covariates and unequal treatment groups sizes. Cases may be specified by the user as being in certain treatment groups, or cases may be placed in treatment groups by the program in accordance with a specified boolean expression. The program provides the capability to input forecast case data to test the accuracy of the defined covariance statistical model.
2. Output from this program includes:
 - a. List of case numbers, data input, and group designation (optional).
 - b. Variable means for each treatment group.
 - c. Total mean for each variable.
 - d. Correlation matrices for total, treatment, and error (optional).
 - e. Sums of products matrices for total, treatment, and error.
 - f. The inverses of the Covariate matrices for total, treatment, and error.
 - g. Analysis-of-Covariance table with degrees of freedom, sums of squares, mean squares, and F-ratio.
 - h. Tables of regression coefficients, their standard errors, and computed t-values with and without adjustment for groups.
 - i. Table of adjusted means and their standard errors.
 - j. Table of Intercepts for Total, Treatment, and Error.
 - k. Table of residuals for Total and Error.
 - l. Table of Sum-Squares within.
 - m. Table of Transgenerated Data Input with Case Numbers, and Group Designation (Optional).
3. Limitations per problem:
 - a. v - Number of variables read in. However, no more than 36 variables (including the Analysis-of-Variance variable) may enter the computation, i.e., $v + q \leq 36$. Also see limitations (b) and (f) below.
 $(3 \leq v \leq 99.)$
 - b. p - Number of Covariates ($1 \leq p \leq 35$).
 - c. t - Number of treatment groups ($2 \leq t \leq 99$).

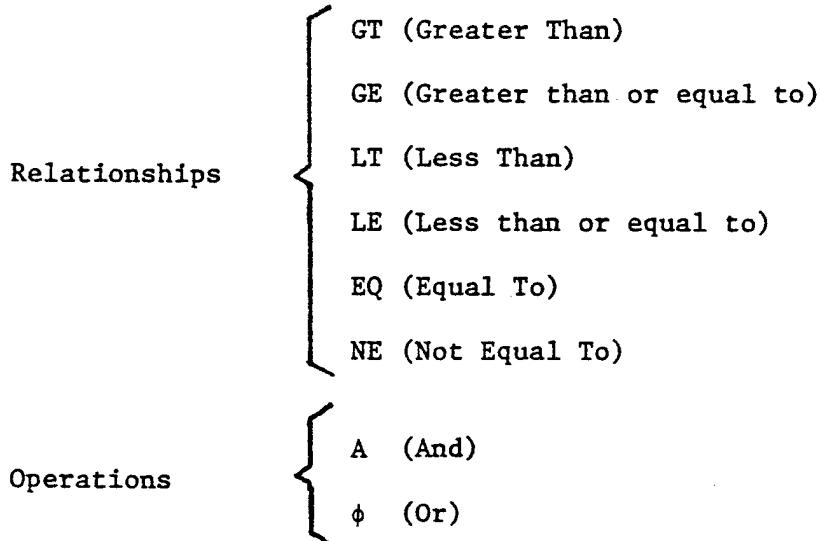
- d. n_i - Sample size of the i^{th} treatment group ($1 \leq n_i \leq 999$).
- e. N - Total number of cases ($t + p + 1 \leq N \leq 99999$)
- f. q - Number of variables added to the original set after transgeneration ($-96 \leq q \leq 32$).
- g. m - Number of Transgeneration Cards ($0 \leq m \leq 99$).
- h. g - Number of Group Definition Cards ($0 \leq g \leq 99$).
- i. k - Number of Variable Format Cards ($1 \leq k \leq 10$).

The above limitations are built into the program and are checked for each problem. If violations occur, a message to that effect is printed, and the entire job is skipped by the system.

4. One set of data input may be processed an indefinite number of times. The user may select various combinations of variables by specifying different variable formats. For each variable selection of the data input, different transgeneration options may be used since data does not remain transformed from one variable selection to the next.

5. This program allows for the placement of cases into particular treatment groups in accordance with a boolean expression on the Group Definition Card. If the case under consideration satisfies the boolean expression given on the Group Definition Card, it is assigned to the treatment group specified on the cards. If the case does not satisfy the boolean expression, the case is skipped.

The boolean expression contains the following:



For example, 6 21GT3.000A05EQ1.000φ07LE68.50, states that a case is in treatment group 6 if variable 21 is greater than 3.000 and variable 05 equals 1.000 or variable 07 is less than or equal to 68.50.

The boolean expression should be prepared carefully so that there is no possibility of a case satisfying the expression for more than one group.

6. Information from this program includes that usually computed from standard multiple regression analysis. By an arbitrary partitioning of the data input into at least two treatment groups and ignoring the "WITHIN" output, the program may be used to perform multiple regression analysis.

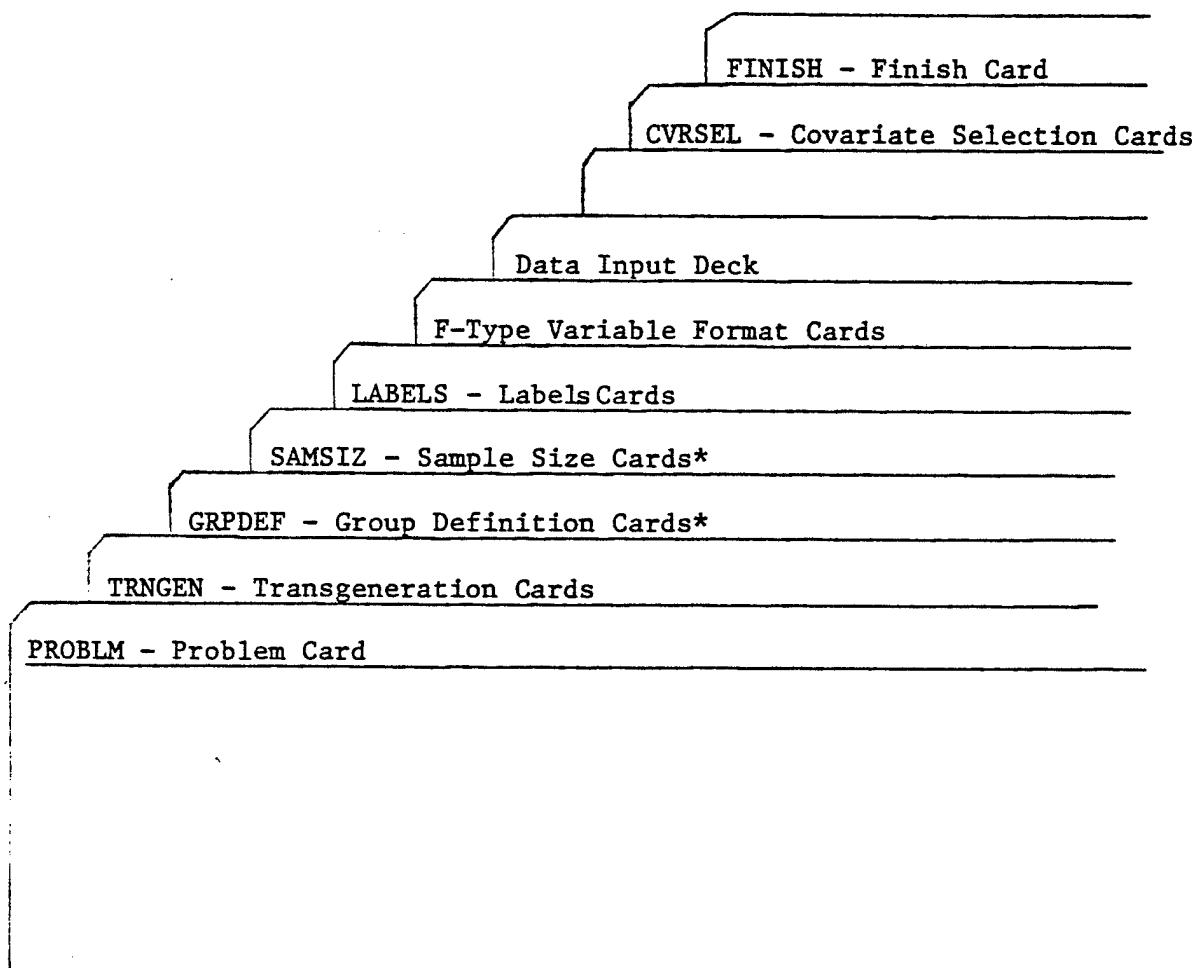
ORDER OF CARDS IN JOB DECK

Cards indicated by numbers enclosed in parentheses are optional. All other cards must be included in the order shown.

1. System Cards
2. Problem Card
- (3.) Standard Transgeneration Cards
- (4.) Group Definition Cards*
- (5.) Sample Size Cards*
- (6.) Labels Cards
7. F-Type Variable Format Cards
8. Data Input Cards (place data input deck here, if data input is from cards).
9. Covariate Selection Cards
. . . Repeat 2. through 9. as desired.
10. Finish Card

*NOTE: Either (4) or (5) must be used but not both.

DECK SET-UP

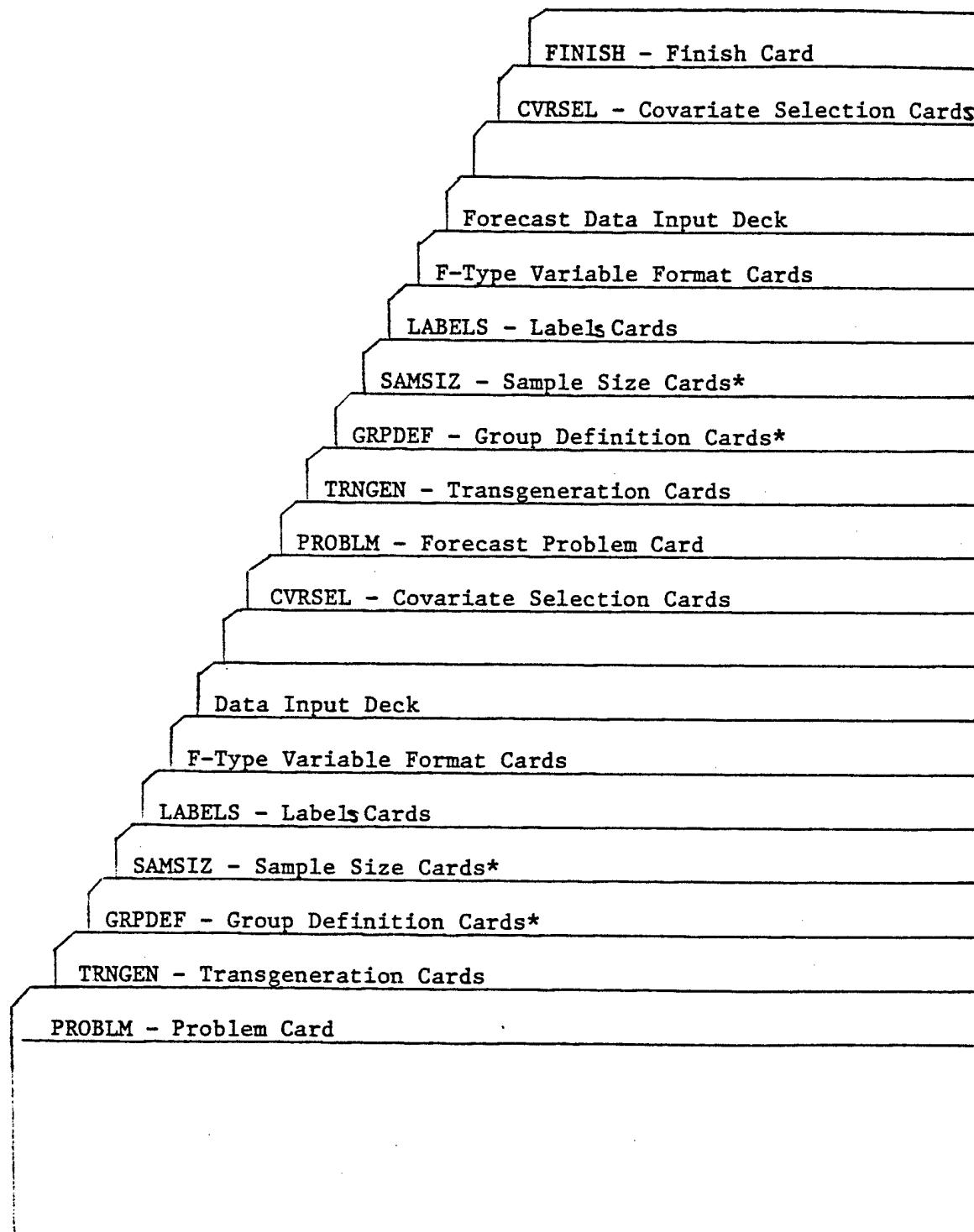


FORECAST DATA JOB DECK

The forecast case data is input in a second problem deck back-to-back with the problem deck that defines the statistical model as described above. The Forecast problem Deck is inserted after the Covariate Selection Cards of the previously defined problem deck. The complete job deck is described as follows:

1. Cards (1) through (9), as shown in the above order of cards in the job deck.
2. Problem Card. (Same as card (2) except for the following; Input the number of forecast cases in Column 15-19, input the characters "Yes" in Columns 61-63.)
3. Repeat cards (3) through (7).
4. Forecast Data Input Cards (Place data input deck here, if data input is from cards.)
5. Repeat card (9).
6. Finish card.

FORECAST DECK SET-UP:



PREPARATION OF PROGRAM CONTROL CARDSPROBLEM CARD (One problem card for each problem.)

Columns 1-6	PROBLM	(Mandatory)
Columns 7-12	Alphanumeric identification. This must be the same as the preceding problem if and only if the same (untransgenerated) data input from that problem is to be the data input for this problem. (This feature avoids reproducing the same data input for more than one consecutive problem.)	
Columns 13-14	Number of treatment groups ($2 \leq t \leq 99$)	
Columns 15-19	Total number of cases for all treatment groups $(t + p + 1) \leq N \leq 99,999$	
Columns 20, 21	Number of cards per case	
Columns 22, 23	Number of variables read in ($2 \leq V \leq 99$)	
Columns 24-26	000 - No variables added to the original set after transgeneration. q, q - Variables added to the original set after transgeneration. ($-97 \leq q \leq 34$)	

NOTE: Covariates and the variate (dependent variable) may be generated from the original variables as desired by the transgeneration process. The limit of 99 variables cannot be exceeded at any point during trans-generation. No more than 36 variables may enter the computation.

Columns 27, 28	Index of the variate or dependent variable.
Columns 29-31	YES - If the data input is to be printed; otherwise, leave blank.
Columns 32-34	Number of labels specified on Label Cards; if the labels are not specified, leave blank.
Columns 35-37	YES - If the data cards from the <u>previous</u> problem are to be used. (A different set of variable format cards may be used. If new data cards are to be used, leave these columns blank.)
Columns 38, 39	Number of Group Definition Cards ($0 \leq g \leq 99$)

NOTE: The number of groups defined by these cards must be the t groups specified in columns 13, 14.

Columns 40-42	YES - If residuals (within) are to be printed; otherwise, leave blank.
Columns 43-45	YES - If residuals (total) are to be printed; otherwise, leave blank.
Columns 46-48	YES - If the transgenerated variables entering the computation are to be printed; otherwise, leave blank.
Columns 49-57	Blank
Columns 58-60	YES - If the correlation matrices are to be printed; otherwise, leave blank.
Columns 61-63	YES - If the forecast data input is included; otherwise, leave blank.
Columns 65, 66	NO - If input tape is not to be rewound before reading.
Columns 67, 68	00 - No transgeneration. m - m transgeneration cards ($0 \leq m \leq 99$)
Columns 69, 70	00 - If data input if from cards. T - If data input is on logical BCD tape T, (T ≠ 1, 2, 3, 5, 6, 7)
Columns 71, 72	Number of variable format cards ($1 \leq k \leq 10$)

TRANSGENERATION CARDS

The term transgeneration is used to include transformations of input variables and creation of new variables prior to the computations performed by the statistical program.

The transformations described below are performed on the values of the variables in each case. In these examples, the symbol X_i will denote the i^{th} variable as well as its value.

EXAMPLES:

$$\log_{10} X_4 \rightarrow X_4$$

$\log_{10} X_4$ replaces X_4

$$X_5^c \rightarrow X_1$$

X_5^c replaces X_1

$$X_2 + X_3 \rightarrow X_2$$

$X_2 + X_3$ replaces X_2

By successive transformations, more complicated relationships may be obtained. For example:

(i) To replace X_5 by $\sqrt{X_1^2 + X_3^2}$ four transformations are required:

Variables as they are stored at each step

Transformation	X_1	X_2	X_3	X_4	X_5
$X_1^2 \rightarrow X_1$	X_1^2	X_2	X_3	X_4	X_5
$X_3^2 \rightarrow X_3$	X_1^2	X_2	X_3^2	X_4	X_5
$X_1 + X_3 \rightarrow X_5$	X_1^2	X_2	X_3^2	X^4	$X_1^2 + X_3^2$
$X_5 \rightarrow \sqrt{X_5}$	X_1^2	X_2	X_3^2	X^4	$\sqrt{X_1^2 + X_3^2}$

In this example, it can be seen that the original values of X_5 are irrelevant. Actually the variable X_5 may be a dummy variable introduced by the program specifically to provide capacity for creating new variables by transgeneration. Dummy variables may be required for intermediate storage in order to effect some transformations.

(ii) To replace X_1 by $\text{Exp}(-1/2 X_1^2)$ three transformations are required:

$$\begin{array}{ll} \text{TRANSFORMATION} & x_1 \\ x_1^2 \rightarrow x_1 & x_1^2 \end{array}$$

$$-1/2 x_1 \rightarrow x_1 \quad -1/2 x_1^2$$

$$\text{Exp } (x_1) \rightarrow x_1 \quad \text{Exp } (-1/2 x_1^2)$$

(iii) To replace x_4 by $x_2 + \log_{10} (x_4 - x_3 + 100)$ four transformations are required:

TRANSFORMATION	x_1	x_2	x_3	x_4
$x_4 - x_3 \rightarrow x_4$	x_1	x_2	x_3	$x_4 - x_3$
$x_4 + 100 \rightarrow x_4$	x_1	x_2	x_3	$(x_4 - x_3 + 100)$
$\log_{10} x_4 \rightarrow x_4$	x_1	x_2	x_3	$\log_{10} (x_4 - x_3 + 100)$
$x_2 + x_4 \rightarrow x_4$	x_1	x_2	x_3	$x_2 + \log_{10} (x_4 - x_3 + 100)$

The transformations are performed in the order in which the transgeneration cards appear, so that, for example, the two transgenerations $2x_1 \rightarrow x_1$ followed by $x_1 - 2 \rightarrow x_1$, will result in $2x_1 - 2$, whereas $x_1 - 2 \rightarrow x_1$ followed by $2x_1 \rightarrow x_1$ will result in $2(x_1 - 2)$.

TRANSGENERATION LIST

Notation to be used in the following transgeneration list:

i, j, k are variable indices (need not be different)

c is a constant

n is a number of cases or sample size

<u>Code</u>	<u>Transgeneration</u>	<u>Restriction</u>
01	$\sqrt{x_i} \rightarrow x_k$	$x_i \geq 0$
02	$\sqrt{x_i} + \sqrt{x_i + 1} \rightarrow x_k$	$x_i \geq 0$

<u>Code</u>	<u>Transgeneration</u>	<u>Restriction</u>
03	$\log_{10} x_i \rightarrow x_k$	$x_i > 0$
04	$e^{x_i} \rightarrow x_k$	
05	$\arcsin\sqrt{x_i} \rightarrow x_k$	$0 \leq x_i \leq 1$
06	$\arcsin\sqrt{x_i/(n+1)} + \arcsin\sqrt{(x_i+1)/(n+1)} \rightarrow x_k$	$0 \leq (x_i/n) \leq 1$
07	$1/x_i \rightarrow x_k$	$x_i \neq 0$
08	$x_i + c \rightarrow x_k$	
09	$x_i c \rightarrow x_k$	
10	$x_i^c \rightarrow x_k$	$x_i \geq 0$
11	$x_i + x_j \rightarrow x_k$	
12	$x_i - x_j \rightarrow x_k$	
13	$x_i x_j \rightarrow x_k$	
14	$x_i/x_j \rightarrow x_k$	$x_j \neq 0$
15	If $x_i \geq c$, 1 $\rightarrow x_k$; otherwise 0 $\rightarrow x_k$	
16	If $x_i \geq x_j$, 1 $\rightarrow x_k$; otherwise 0 $\rightarrow x_k$	
17	$\log e^{x_i} \rightarrow x_k$	$x_i > 0$
20	$\sin x_i \rightarrow x_k$	
21	$\cos x_i \rightarrow x_k$	
22	$\arctan x_i \rightarrow x_k$	
23	$x_i^{x_j} \rightarrow x_k$	$x_i > 0$
24	$c^{x_i} \rightarrow x_k$	$c > 0$

<u>Code</u>	<u>Transgeneration</u>	<u>Restriction</u>
41	If X_i is blank, then $C \rightarrow X_k$; otherwise X_k remains unchanged.	$X_i \neq -0^*$

*NOTE: In reading numeric fields, a blank field may be read as -0.

When a violation of a restriction in the right-hand column occurs during transgeneration, the program will print a diagnostic message and continue the computation with the data unchanged where the violation occurred.

CARD PREPARATION

Column 1-6	TRNGEN	(Mandatory)
Column 7-9	Variable index k	
Columns 10, 11	Code from transgeneration list	
Column 12-14	Variable index i	
Column 15-20	Variable index j or constant C	

The Constant C is punched with a decimal point if used with variables which have an F-Type format and without a decimal point if used with variables which have an I-Type format.

The transgeneration cards for the three examples cited above are:

- (i) TRNGEN001100012.0000
TRNGEN003100032.0000
TRNGEN00511001000003
TRNGEN00501005000000
- (ii) TRNGEN001100012.0000
TRNGEN00109001-0.500
TRNGEN00104001000000
- (iii) TRNGEN00412004000003
TRNGEN00408004100.00
TRNGEN00403004000000
TRNGEN00411004000002

GROUP DEFINITION CARDS

If the boolean selection feature is being used to place cases in their treatment groups, Group Definition Cards are prepared to select the cases for the t groups specified in columns 13, 14 of the Problem Card.

Column 1-6	GRPDEF	(Mandatory)
Columns 7, 8	Treatment group number to which case should be assigned if it satisfies the boolean expression.	

Columns 9, 10 Variable index for the first relationship

Columns 11, 12 Relationship

- GT (Greater Than)
- LT (Less Than)
- LE (Less Than or Equal To)
- GE (Greater Than or Equal To)
- EQ (Equal To)
- NE (Not Equal To)

Column 13-17 Constant used in the relationship (punch the decimal point).

Column 18 Operation

- A (AND)
- Ø (OR)
- * (This terminates the boolean expression)

Columns 19, 20 Variable index for the second relationship

Columns 21, 22 Relationship

Column 68 Operation

NOTE: If additional boolean expressions are required for a particular treatment group, continue on a second card and terminate the expression with the asterisk (*) in the appropriate column. As many cards as needed may be used as long as the total does not exceed the limitation of 99. Since parentheses cannot be used for compound AND/OR expressions, AND is assumed to precede OR. The statement W OR X AND Y OR Z will operate as W OR (X AND Y) OR Z.

SAMPLE SIZE CARDS

Sample Size Cards are prepared if cases are specified by the user as being in certain treatment groups. These cards are not prepared if the boolean selection feature is used.

Column 1-6	SAMSIZ	(Mandatory)
Column 7-9	Number of cases in 1st treatment group	
Column 10-12	Number of cases in 2nd treatment group	

Column 70-72	Number of cases in 22nd treatment group. If there are more than 22 treatment groups, continue keypunching a second card, a third card, etc., in the same manner, i.e.,	
Column 1-6	SAMSIZ	(Mandatory)
Column 7-9	Number of cases in the 23rd treatment group	

LABELS CARDS

Labels cards allow the user to substitute alphanumeric names for the usual numeric indices (variable numbers) which appear on the printed output.

CARD PREPARATION

Columns 1-6	LABELS	(Mandatory)
Columns 7-10	The number of the variable (or index) to be named. This number must be right-justified.	
Columns 11-16	The corresponding alphanumeric name.	
Columns 17-20	The number of another variable.	
Columns 21-26	The corresponding alphanumeric name.	
.		
.		
Columns 67-70	The number of another variable.	
Columns 71-76	The corresponding alphanumeric name. (Up to 7 per card.)	

There may be from one to seven pairs of variable numbers and labels on each Labels Card. If desired, only one pair may be specified on each card. However, the total number of labels appearing on all the Labels Cards must equal the number of labels specified on the problem card.

It is not necessary to label all the variables. Those labeled may be listed in any order. EXAMPLE: Suppose the number of variables to be labeled as specified on the Problem Card is 8. Then the Labels Cards might be punched as:

```
LABELS 10 HEIGHT 07WEIGHT 06 AGE 11TYPE 17GROUP 03STATUS
LABELS 01GAIN 08SYSTEM
```

VARIABLE FORMAT CARDS (FOR INPUT)

The word "FORMAT" usually refers to the arrangement of information keypunched on a card. The format of a data card is a sequence of fields (variables), each of which occupies one or more columns. For the computer program a format is a set of specifications according to which information is read into the program from punched cards. The specifications tell the program which parts (or columns) of the card to skip, which parts to regard as all one number, and which parts to regard as several numbers in a row. For instance, it is the format which tells the program whether a card punched "345890021" is to be read in as "34.5, 890.0, .021", or "34., 9002.1", or "598.002", or "3, 4, 58, 90, 0, 2, 1", etc. It does this by giving the program a sequence of specifications which indicate the size of a field and

the method of handling that field (i.e., skipping it, entering it into the computer as a whole number, entering it into the computer as a number with two decimal digits, etc.).

The format also tells that program how to read in a certain set of cards when more than one are required to contain all the data for one case. The format describes the variables for each case. Each successive case is assumed to have the same format.

If the format for the program is fixed in advance, all data would have to be punched on cards in the same way for every study. Since this is not usually convenient, the program has been written so that the user may vary the format according to his preference for a particular study. For this reason, they are referred to as "Variable Formats". The program is informed of the format which is to be used by Variable Format Cards. The user must specify on the Problem Card the number of cards used to keypunch the variable format.

In addition to providing an economical method of preparing data input cards (by defining fields to be as small as possible, or "packing" the data), the variable format permits considerable freedom in controlling data input.

For instance:

- It allows the user to select for each case only those cards which have fields of interest. (See examples i, iii, iv below.)
- It allows the user to select only those fields of interest from among the fields of each card. (See examples ii, iii, iv.)
- It allows the user to scale the data input, i.e., shift the decimal point.

F-TYPE VARIABLE FORMAT

The F-Type format is the most frequently used in the program. It is required when the decimal point is keypunched on the card or when the decimal point is to be placed by the program. All data input values must be signed (+) or unsigned numbers with or without a decimal point punched.

SPECIFICATIONS:

1. "nFw.d" - F is the floating point (decimal) indicator; n is the number of fields of width W (includes sign and decimal point if punched); and d is the number of digits to the right of the decimal point if the decimal point is not punched ($0 \leq d \leq w$). If the decimal is punched, d is ignored. If n is not specified, it is assumed to be 1.
2. "sPnFw.d" - P is the scale indicator; s is a scale factor (explained below); and n, w, and d are defined in specification 1.
3. "mX" (Alphabetic X) - X is the skip indicator, and m is the number of columns to be skipped.

4. "/" - (slash) indicates "go to the next data card." Depending on its location in the format statement, the "/" will either direct the program to go immediately to the next card (ignoring any further information on the current card) or skip one card altogether. For example, if a format begins with "/", the program will automatically skip the first card, read the second, skip the third, etc. (See examples i, iii, iv.) "/" indicates "go to the card after next." Two slashes "://" will direct the program to skip two cards. Any number of slashes may be used.

The format is keypunched beginning with a left parenthesis, followed by a sequence of specifications and closed by a right parenthesis. Specifications 1, 2, and 3 are followed by a comma, except preceding a slash or right-hand parenthesis. Blank columns within the format are ignored.

EXAMPLES:

(i) (12F3.0, F4.0, 11F2.0/) punched in the first 21 columns of the variable format card, will describe 12 three-column fields followed by 1 four-column field, followed by 11 two-column fields, followed by an instruction to skip the second card, read the third, skip the fourth, etc.

(ii). (10x, F6.0, 2x, 2F3.0) punched in the first 19 columns, will instruct the program to direct entry of data from each card as follows:

1. Skip 10 columns.
2. Pick up a six-digit field in Column 11-16.
3. Skip 2 columns.
4. Pick up 2 three-digit fields in Columns 19-21 and 22-24.

(iii) (5X, 2F6.0, F1.0, 3X, F5.0/5X, F6.0) punched in the first 31 columns, will instruct the program to direct entry of data from each pair of cards as follows:

1. Skip 5 columns.
2. Pick up 2 six-digit fields in Columns 6-11 and 12-17.
3. Pick up a one-digit field in Column 18.
4. Skip three columns (Columns 19-21).
5. Pick up a five-digit field in Columns 22-26.
6. Go to second data card.
7. Skip 5 columns.
8. Pick up a six-digit field in Columns 6-11 of second card.
9. Repeat for each pair of data cards.

(iv) (5X, 2F6.0, F1.0, 3X, F5.0//5X, F6.0/F4.0, 2X, F1.0) punched in the first 45 columns, will instruct the program to direct entry of data from each set of four cards as follows:

- 1-5. Same as example (iii).
6. Skip second card and go to third card.
7. Skip 5 columns.
8. Pick up a six-digit field in Columns 6-11 of third card.
9. Go to fourth card.
10. Pick up a four-digit field in Column 1-4 of fourth card.
11. Skp two columns.
12. Pick up a one-digit field in Column 7.
13. Repeat for each set of four cards.

SCALING

Scaling may be indicated by using either the "nFw.d" specification or the "sPnFw.d" specification.

"nFw.d" SPECIFICATION

When the decimal point is not punched, the d of the above specification instructs the program to divide the whole picked up by 10^d . For example, F6.1 will specify that the number picked up in a six-column field be divided by 10, F6.2 will specify division by 100, and F6.6 will specify division by 1,000,000.

$$\text{Stored number} = \text{punched number} / 10^d.$$

EXAMPLES:

<u>Punched Number</u>	<u>Format Specification</u>	<u>Stored Number</u>
2468	F4.0	2468.0
3691	F4.1	369.1
4810	F4.3	4.810
4911.32	F7.0	4911.32
172115	F6.6	0.172115

"sPnFw.d" SPECIFICATION

Whether the decimal point is punched or not, the s of the above specification instructs the program to divide the number picked up by

10^S . For example, 2PF6.0 will specify division by 100, -2PF6.0 will specify division by .01. If the decimal point is punched:

$$\text{Stored number} = \text{Punched number}/10^S$$

If the decimal is not punched:

$$\text{Stored number} = \text{Punched number}/10^{S+d}$$

EXAMPLES:

<u>Punched Number</u>	<u>Format Specification</u>	<u>Stored Number</u>
7432	1PF4.0	743.2
74.32	-5PF5.0	7432000.0
7432	2PF4.3	0.07432
7432	1P2F2.0	7.4 & 3.2
7432	2P2F2.1	0.074 & 0.032
7432	0PF4.1	743.2
7.432	-3PF5.0	7432.0

MIXED "nFw.d" AND "sPnFw.d" SPECIFICATIONS:

Once the sPnFw.d specification has been used, it will hold for all Fw.d specifications to the right of it until another sPnFw.d is encountered. If the sPnFw.d specification is not necessary to the right of its occurrence within the variable format statement, then OPFw.d should be used for the next specification to the right, which will hold then for the remaining specifications.

EXAMPLES:

(v) (2F3.1, 2x, F4.2, -6PF3.0, F4.0) - The program interprets the last field as -6PF4.0.

(vi) (2F3.1, 2X, F4.2, -6PF3.0, OPF3.0) - The program interprets the last field as F3.0.

(vii) (1PF3.0, F2.0, OPF3.1, F4.2, F4.0) - The program interprets the second field as 1PF2.0.

DATA INPUT CARDS

The form of the data input when Sample Size Cards are prepared is illustrated in the following example:

VARIABLES

		<u>CASES</u>	1	2	. . .	v
Treatment Group 1	1		$x_{1,1,1}$	$x_{1,1,2}$	. . .	$x_{1,1,v}$
	2		$x_{1,2,1}$	$x_{1,2,2}$	. . .	$x_{1,2,v}$

	n_1		$x_{1,n_1,1}$	$x_{1,n_1,2}$	. . .	$x_{1,n_1,v}$

VARIABLES

		<u>CASES</u>	1	2	. . .	v
Treatment Group 2	1		$x_{2,1,1}$	$x_{2,1,2}$	. . .	$x_{2,1,v}$
	2		$x_{2,2,1}$	$x_{2,2,2}$	. . .	$x_{2,2,v}$

	n_2		$x_{2,n_2,1}$	$x_{2,n_2,2}$	. . .	$x_{2,n_2,v}$

VARIABLES

		<u>CASES</u>	1	2	. . .	v
Treatment Group t	1		$x_{t,1,1}$	$x_{t,1,2}$	. . .	$x_{t,1,v}$
	2		$x_{t,2,1}$	$x_{t,2,2}$	. . .	$x_{t,2,v}$

	n_t		$x_{t,n_t,1}$	$x_{t,n_t,2}$	. . .	$x_{t,n_t,v}$

The preparation of data input on cards is as follows:

1. The cards must be arranged in consecutive treatment groups.
2. Within each treatment group the cards must be arranged in consecutive cases.
3. For each case the variables must be keypunched in fields from left to right across the card (and on to successive cards, if necessary).
4. Each case must begin on a new card.

If the data input is from a prepared BCD tape, the arrangement of data must be in the same form as indicated above. Each case must be a logical record with the last record consisting of the last case of the t^{th} treatment group.

When Group Definition Cards are used, the data is prepared in a similar manner as above considering the data as a single treatment group.

COVARIATE SELECTION CARDS

The indices to be used in specifying the covariates are the indices corresponding to the variables after transgeneration.

Columns 1-6 CVRSEL (Mandatory)

Columns 7, 8 Number of Covariates for this problem ($1 \leq p \leq 35$)

Columns 9, 10 Index of the 1st Covariate

Columns 11, 12 Index of the 2nd Covariate

...

Columns 71, 72 Index of the 32nd Covariate

If there are more than 32 Covariates, they are specified on a second Covariate Selection Card as follows:

Columns 1-6 CVRSEL (Mandatory)

Columns 7, 8 Index of the 33rd Covariate

Columns 9, 10 Index of the 34th Covariate

Columns 11, 12 Index of the 35th Covariate

TAPE INPUT

The program has provision for input of data prepared on tape or disk by means of an alternate input tape. Use of tapes or disks for data provide a very compact storage of data files. One data file may be reread several times to allow several analyses from the same data file by rewinding the alternate input tape.

When the data input consists of p variables on n cases written in consecutive Logical records on magnetic tape in Binary Coded Decimal (BCD) form, a special data input tape may be used. The logical record will usually be the equivalent of one card. When a binary tape is used for data input, it is assumed to be in the standard FORTRAN binary tape format. The user will specify which tape drive is to receive the special data tape.

The program uses several tapes for intermediate storage. Tape numbers 2, 3, 7, 8, and 9, in addition to 5 and 6, may not be specified as alternate input or output tapes for the program.

A P P E N D I X D
COMPUTATIONAL PROCEDURE

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TABLE OF CONTENTS

	<u>Page No.</u>
LIST OF SYMBOLS	D-4
DISCUSSION	D-6
GOVERNING EQUATIONS	D-7

LIST OF SYMBOLS

a, b, k, m	covariate designators
A_k	Total regression coefficient of k^{th} covariate
B_k, β_k	Error (Within) regression coefficient of k^{th} covariate
e_{ij}	residual variate error for the j^{th} sample of i^{th} treatment group
E_{about}	Error (Within) sum of squared deviation about regression equation
E_{due}	Error (Within) sum of squared deviation due to regression equation
E_{km}	inverse of $E_{XX_{km}}$ matrix
$E_{XX_{ab}}$	Error (Within) sum of squared deviation for a^{th} and b^{th} covariates
E_{XY_k}	Error (Within) sum of squared deviation for variate and k^{th} covariate
E_{YY}	Error (Within) sum of squared deviation for variates
i	Treatment group designator
j	treatment group sample size designator
n_i	sample size of the i^{th} treatment group
N	total number of cases
S_{about}	Total sum of squared deviation about regression equation
S_{due}	Total sum of squared deviation due to regression equation
S_{km}	inverse of $S_{XX_{km}}$ matrix
$S_{XX_{ab}}$	Total sum of squared deviation for a^{th} and b^{th} covariates
S_{XY_k}	Total sum of squared deviation for variate and k^{th} covariate

S_{YY}	Total sum of squared deviation for variate
$SE(A_k)$	standard error of k^{th} total regression coefficient
$SE(\text{ADJ } Y_i.)$	standard error of adjusted variate mean for the i^{th} treatment group
$SE(B_k)$	standard error of k^{th} error (within) regression coefficient
t_k	computed T-value of k^{th} regression coefficient
$T_{XY_{ab}}$	Treatment (Between) sum of squared deviation for a^{th} and b^{th} covariates
T_{XY_k}	Treatment (Between) sum of squared deviation for variate and k^{th} covariate
T_{YY}	Treatment (Between) sum of squared deviation for variates
x_{ijk}	k^{th} covariate for the j^{th} sample of i^{th} treatment group
$x_{i.k}$	k^{th} covariate mean for the i^{th} treatment group
$x_{..k}$	k^{th} covariate mean, ignoring treatments
y_{ij}	variate for the j^{th} sample of i^{th} treatment group
$y_{i.}$	variate mean for the i^{th} treatment group
α_i	differential effect on mean for the i^{th} treatment group
μ	overall mean
$\mu + \alpha_i, \text{ADJ}(Y_{i.})$	adjusted covariate mean for the i^{th} treatment group

DISCUSSION

This section presents the computational procedure for the Analysis-of-Covariance statistical model together with the intermediate residual calculations. The first step in the formulation of the statistical model equations is the calculation of the variate and covariate group means. Next, the cross product deviation matrices for the Total, Treatment, and Error solutions are formed and inverted to solve for the regression coefficients. The final step in the formulation of the model equations is the solution of the adjusted variate group means. The inclusion in this report of the model equations and associated correlation equations is not meant as a full treatise on the subject. A thorough treatment of the governing statistical equations can be found in any standard text (i.e., references (b) and (c)).

GOVERNING EQUATIONSCOMPUTATIONAL PROCEDURE

Statistical Model:

$$Y_{ij} = \mu + \alpha_i + \beta_1 (X_{ij1} - X_{i..}) + \dots + \beta_p (X_{ijp} - X_{i..p}) + e_{ij}$$

Notation:

X_{ijk} (k^{th} Covariate), $Y_{ij} = X_{ij}(p + 1)$ (Variate)

$i = 1, 2, \dots, t$ (Treatment Groups)

$j = 1, 2, \dots, n_i$ (Sample size of the i^{th} treatment group)

$k = 1, 2, \dots, p$ (Covariates)

$m = 1, 2, \dots, p$ (Covariates)

$a = 1, 2, \dots, p + 1$ (Covariates + 1 variate)

$b = 1, 2, \dots, p + 1$ (Covariates + 1 variate)

Step 1

$$1. N = \sum_{i=1}^t n_i \quad (\text{Total number of cases})$$

$$2. Y_{i..} = \frac{1}{n_i} \sum_{j=1}^{n_i} Y_{ij} \quad (\text{Variate mean for the } i^{\text{th}} \text{ group})$$

$$3. X_{ik} = \frac{1}{n_i} \sum_{j=1}^{n_i} X_{ijk} \quad (\text{Covariate means for the } i^{\text{th}} \text{ group and } k^{\text{th}} \text{ covariate})$$

$$4. X_{..k} = \frac{1}{N} \sum_{i=1}^t \sum_{j=1}^{n_i} X_{ijk} \quad (\text{kth Covariate mean, ignoring treatments})$$

(2) and (3) are printed under the heading variable means for each group.

Step 2. Sums of Squared Deviation

1. Total

$$S_{XX_{ab}} = \sum_{i=1}^t \sum_{j=1}^{n_i} X_{ija} X_{ijb} - \frac{\left(\begin{array}{c} t \\ \Sigma \\ i=1 \end{array} \begin{array}{c} n_i \\ \Sigma \\ j=1 \end{array} X_{ija} \right) \left(\begin{array}{c} t \\ \Sigma \\ i=1 \end{array} \begin{array}{c} n_i \\ \Sigma \\ j=1 \end{array} X_{ijb} \right)}{N}$$

$$S_{XY_k} = S_{XX_{k(p+1)}}$$

$$S_{YY} = S_{XX_{(p+1)(p+1)}}$$

2. Treatment (Between)

$$T_{XX_{ab}} = \sum_{i=1}^t \frac{\left(\begin{array}{c} n_i \\ \Sigma \\ j=1 \end{array} X_{ija} \right) \left(\begin{array}{c} n_i \\ \Sigma \\ j=1 \end{array} X_{ijb} \right)}{n_i} - \left(\begin{array}{c} t \\ \Sigma \\ i=1 \end{array} \begin{array}{c} n_i \\ \Sigma \\ j=1 \end{array} X_{ija} \right) * \frac{\left(\begin{array}{c} t \\ \Sigma \\ i=1 \end{array} \begin{array}{c} n_i \\ \Sigma \\ j=1 \end{array} X_{ijb} \right)}{N}$$

$$T_{XY_k} = T_{XX_{k(p+1)}}$$

$$T_{YY} = T_{XX_{(p+1)(p+1)}}$$

3. Error (Within)

$$E_{XX_{ab}} = S_{XX_{ab}} - T_{XX_{ab}}$$

$$E_{XY_{k(p+1)}} = S_{XY_{k(p+1)}} - T_{XY_{k(p+1)}}$$

$$E_{YY} = S_{YY} - T_{YY}$$

(1), (2), and (3) are printed under the heading Sums of Squares and Cross Product Matrix for Total, Treatment, and Error.

Step 3. Regression Coefficients

1. Matrices $S_{XX_{km}}$ and $E_{XX_{km}}$ are inverted.

$$\text{Let } S_{km} = (S_{XX_{km}})^{-1}, E_{km} = (E_{XX_{km}})^{-1}$$

$$2. B_k = \sum_{m=1}^p (E_{km})(E_{XY_m}) \quad (\text{Error Coefficients})$$

$$3. A_k = \sum_{m=1}^p (S_{km})(S_{XY_m}) \quad (\text{Total Coefficients})$$

(1) is printed under the heading Inverse of the Covariates Cross Product Matrix for Total and Error.

Step 4. Regression Sums of Squares

(1) Error (Within)

$$E_{\text{due}} = \sum_{k=1}^p B_k E_{XY_k}$$

$$E_{\text{about}} = E_{YY} - E_{\text{due}}$$

2. Total

$$S_{\text{due}} = \sum_{k=1}^p A_k S_{XY_k}$$

$$S_{\text{about}} = S_{YY} - S_{\text{due}}$$

(1) and (2) are printed in the Analysis of Covariance Table.

Step 5. Standard Errors of Regression Coefficients and computed t - VALUES

	<u>STANDARD ERRORS</u>	<u>COMPUTED t - VALUES</u>
ERROR: $SE(B_k) = \sqrt{E_{\text{about}}} \cdot E_{kk}$		$t_k = \frac{B_k}{SE(B_k)}$
TOTAL: $SE(A_k) = \sqrt{S_{\text{about}}} \cdot S_{kk}$		$t_k = \frac{A_k}{SE(A_k)}$

These and (1) and (3) from Step 3 are printed in the output under the heading TABLE OF COEFFICIENTS, STANDARD ERRORS AND COMPUTED T-VALUES.

Step 6. Adjusted Means and Standard Errors of Adjusted Means

(1) Adjusted Means

$$\text{ADJ } (Y_{i.}) = Y_{i.} - \sum_{m=1}^p B_m (X_{i.m} - X_{..m})$$

(2) Standard Errors of Adjusted Means

$$\text{SE}(\text{ADJ } Y_{i.}) = \left\{ E_{\text{due}} \left[\frac{1}{n_i} + \sum_{k=1}^p \sum_{m=1}^p (X_{i.k} - X_{..k}) E_{km} (X_{i.m} - X_{..m}) \right] \right\}^{1/2}$$

These are printed in the output under the heading, Table of Adjusted Means and Standard Errors.