SEISMIC REFRACTION NETWORKS IN THE STUDY OF THE EARTH'S CRUST

by

RAYMOND PARKS
B.Sc. (Belfast)
Diploma in Applied Dynamics (Edinburgh)

VOLUME 2

Thesis submitted for the degree of
Doctor of Philosophy
in the University of Edinburgh

April 1967

APPENDICES

APPENDIX A: COMPUTER PROGRAMME

A. 1. INTRODUCTION

The programme has been written throughout in Atlas Autocode, this being the preferred language for the computing facilities available (and also a very convenient language for this type of calculation).

By far the most suitable form of input for the data would be punched card , since the full details for each observation (shot number, station number, travel-time, distance, weight) could be entered on a single card to facilitate additions and deletions of data as the interpretation proceeds. However, as a matter of expediency, punched tape was used, with one tape containing the programme followed by a second tape containing the data.

The first version of the programme was prepared for Flexowriter code, which includes the convenient feature of lower-case and upper-case character sets. However, as development proceeded, it became preferable to make use of a Teletype (with I.S.O. code) which was available in the Seismology Unit building, although this involved restriction to upper-case characters. As a consequence, the abbreviated names shown in the print-out are perhaps less clear than in the earlier form.

At the commencement of the project, library routines for the matrix algebra operations were not available, and the writing of suitable routines was undertaken by Dr. S. Crampin, who gave much

valuable programming assistance throughout the investigation.

Although this lack of library routines was in a sense a disadvantage, it turned out to be a positive advantage in one respect: the routines could be modified where necessary to suit the application.

In particular, the elements of the leading diagonal of the inverse coefficient matrix (which are needed in deriving weighted standard deviations for the time-terms) could be made available for subsequent calculation, whereas Berry and West (1966) found themselves handicapped from doing so because they were using formal library routines.

For substantial data sets, the amount of storage space occupied by two-dimensional arrays and by the inversion routine is liable to be a problem unless carefully specified. It is quite unsatisfactory to rely on a general declaration of array dimensions sufficiently large to accommodate the largest data set likely to be encountered; not only is this wasteful, but it can easily add up to more than the capacity available on quite a respectable computer.

To ensure economy of storage space, the array dimensions are not specified in advance but are defined in terms of the number of observations and number of survey points in the data set being processed.

It is convenient to have the programme capable of accepting data in the form of a simple list without any particular sequence of observations, and to be able to add or delete a few observations at will.

It is also convenient to identify the shots and stations only by the reference numbers which had been assigned to them in their original project, rather than to number them in sequence from 1 for each data set.

In the first version of the programme, the complete transpose of the coefficient matrix $[p]$ was formed and stored, but this was not in fact essential, and a slight modification of the direct matrix multiplication routine permits transposition to be performed during the multiplication, without separate storage for the transpose matrix (routine TRANSMUL).

The block structure of the programme has been arranged so that storage for the larger arrays is declared only at the stage where it is to be used, and is relinquished as soon as it can be spared. In particular, the coefficient matrix $[p]$ is not needed after the normal equations have been formed (i.e. the $[q]$ matrix), and working space for the inversion routine is not needed until that stage.

With the present form of the programme, the critical stage as regards storage limitation is the matrix inversion. If there are m shots and n stations, then the only major storage requirement before inversion is the $[q]$ matrix, of dimensions: $(m + n) \times (m + n)$. The inversion routine requires as working space: $2 \times (m + n) \times (m + n)$, and the inverse matrix itself requires a further $(m + n) \times (m + n)$.

The Edinburgh KDF9 computer (with a nominal 16,000 words of core store) accepts this programme with up to 41 survey points, but baulks at slightly larger data sets with 42 survey points. However, much larger data sets can be handled by the Atlas computer at Chilton.

The most inefficient use of storage space occurs in the coefficient matrix $[p]$, of which most elements are zero, and the remaining few are each unity. Obviously, substantial economies could be made, but this would do nothing to ease the real bottle-neck at the inversion stage.

In normal use of the programme, output is obtained directly on line-printer. For the compilation of data sets and solutions given in Appendix B, output was obtained on punched tape to take advantage of the superior print quality of a Teletype available off-line, which also facilitated editing for page lay-out.

A. 2 DESCRIPTION

The first four numbers on the data tape give, respectively, the data set identification and the maximum numbers of observations, shots, and stations which are to be accommodated. Each observation is entered as four numbers: shot identification, station identification, travel-time, and distance. After the last observation, a zero entry marks the end of the data set.

The programme commences by reading the first four numbers, and from these declaring a sufficient storage allocation to read in the entire data set.

The sections "Index shot labels" and "Index station labels" scan through the shot and station identifications, compile lists of all the identifications which occur, and count the actual totals of observations, shots, and stations. To facilitate later operations, the shots and stations are also assigned sequence numbers from 1 upwards (in the order in which they appear in the data).

As a precaution against possible tape faults, the data are printed at the head of the output, together with the sequence numbering assigned above.

Having counted the number of observations and survey points in the data, the main array dimensions are assigned exactly, and the elements of the $[p]$ matrix filled in (zero or unity as appropriate).

The additional constraint as required by the inherent indeterminacy (Section (2.7)) is provided under the heading "Set last b to zero" by entering an additional line equating the last station time-term to zero.

For checking purposes during development it was useful to have a print-out of the $[q]$ matrix and its inverse, $[q^{-1}]$, but in later production runs this was omitted to reduce the quantity of output.

Applying the separate treatment for velocity (Section (3.3)), the term c_{ij} and d_{ij} are tabulated, and the velocity calculated from them.

Using this velocity, the residuals and their squares are calculated. The sum of squared residuals is calculated for the complete set and for each survey point separately, together with the mean distance for each survey point.

The time-terms are listed both in terms of an undefined velocity and as the values given by the calculated velocity, and a standard deviation for each time-term is obtained by applying the appropriate element from the diagonal of the inverse matrix as a weight.

The terms c_{ij}, d_{ij}, and d^2_{ij} are tabulated in full, together with the residuals, to facilitate assessment of the contribution of each observation and the quality of fit.

Proceeding to the possibility that the quality of the data may differ between survey points, there is a listing of the sum of squared residuals for each survey point in turn, with the standard deviations of data and of time-term calculated from it. For comparison the standard deviation of time-term by the uniform-quality approach is listed again alongside.

The influence of the velocity uncertainty on the final time-term uncertainty is allowed for by combining the mean distance for each survey point with the standard deviation of velocity and of the appropriate time-term (applying similar treatment to both versions of the standard deviation of time-term).

LISTING OF COMPUTER PROGRAMMME

```
%BEGIN; !TIME TERM CALCULATIONS
!TRANSPOSE IN MULTIPLICATION
!INNER BLOCKS FOR P AND QIN
!ALL SHIFT 9 SPACES
!PLOT DISTRIBUTIONS OF RESIDUALS
%INTEGER M,N,NOA,NOB,IDNO,SI,SJ,K,N1,A,MMAX,IMAX,JMAX,H,I,J
%REAL SUMD2,SUMCD,SUMDEL2,V,V1,SDV1
%ROUTINESPEC TRANSMUL(%INTEGERNAME N,M,R,%ARRAYNAME PT,P,Q)
%ROUTINESPEC MATMUL(%INTEGERNAME N,M,R,%ARRAYNAME PT,P,Q)
%ROUTINESPEC MATINV(%INTEGERNAME N,%ARRAYNAME X,Y)
%ROUTINESPEC MATPRINT(%INTEGERNAME M,N,%ARRAYNAME P)
%ROUTINESPEC PLOT DISTRIBUTION(%INTEGER M,L,S,%ARRAYNAME X,Y)


1:READ(IDNO); NEWLINES(2); SPACES(9)
%CAPTION TIME␣TERMS; NEWLINES(2); SPACES(9)
%CAPTION DATA␣SET; PRINT(IDNO,4,0)
READ(MMAX,IMAX,JMAX)
%BEGIN
%INTEGERARRAY AA,BB,GG,HH(1:MMAX),EE(1:IMAX),FF(1:JMAX)
%ARRAY CC,DD(1:MMAX)
%CYCLE M=1,1,MMAX
  READ(AA(M),BB(M),CC(M),DD(M))
  ->2 %IF AA(M)=0
!ZERO ENTRY MARKS END OF DATA
%REPEAT
2:M=M-1
                        !INDEX SHOT LABELS
EE(1)=AA(1)
NOA=1; K=1
GG(1)=1; HH(1)=1
6:K=K+1; I=1
5:->4 %IF AA(K)=EE(I)
I=I+1
->5 %IF I≠NOA+1
EE(I)=AA(K)
NOA=I
4:GG(K)=I
%IF K≠M %THEN ->6
                        !INDEX STATION LABELS
FF(1)=BB(1)
NOB=1; K=1
9:K=K+1; J=1
8:->7 %IF BB(K)=FF(J)
J=J+1
->8 %IF J≠NOB+1
FF(J)=BB(K)
NOB=J
7:HH(K)=J
%IF K≠M %THEN ->9
NEWLINES(2); SPACES(9)
```

LISTING OF COMPUTER PROGRAMME (CONTINUED)

```
                        !PRINT DATA
PRINT(MMAX,3,0); SPACES(4)
PRINT(IMAX,3,0); SPACES(2)
PRINT(JMAX,3,0); SPACES(4)
PRINT(M,3,0);    SPACES(4)
PRINT(NOA,3,0);  SPACES(2)
PRINT(NOB,3,0);  NEWLINES(2); SPACES(9)
%CYCLE K=1,1,M
  PRINT(AA(K),4,0); SPACES(2)
  PRINT(BB(K),4,0); SPACES(2)
  PRINT(CC(K),2,2); SPACES(2)
  PRINT(DD(K),3,2); SPACES(2)
  PRINT(GG(K),3,0); SPACES(2)
  PRINT(HH(K),3,0); NEWLINE; SPACES(9)
%REPEAT
NEWLINE
                        !ASSIGN ARRAY DIMENSIONS
N=NOA+NOB
A=1; N1=N-1
M=M+1
%BEGIN
%REALARRAY Q(1:N,1:N),ST,SD,T,D,T3,D3(1:M,1:1),%C
DEL,D2,T2,CIJ,DIJ,DEL2(1:M),SDEL2,DBAR,SDTV,SDTT1,SDTT2(1:N)
%INTEGERARRAY I,J(1:M)
%BEGIN
%REALARRAY P(1:M,1:N)
%CYCLE SI=1,1,M
  %CYCLE SJ=1,1,N
    P(SI,SJ)=0
  %REPEAT
%REPEAT
%CYCLE K=1,1,M-1
  SI=GG(K)
  SJ=HH(K)
  ST(K,1)=CC(K)
  SD(K,1)=DD(K)
  P(K,SI)=1
  P(K,NOA+SJ)=1
  T2(K)=ST(K,1); D2(K)=SD(K,1)
  I(K)=SI; J(K)=SJ
%REPEAT
                        !SET LAST B TO ZERO
P(M,N)=1
ST(M,1)=0; SD(M,1)=0
T2(M)=0; D2(M)=0
                        !MATRIX OPERATIONS
TRANSMUL(N,M,N,P,P,Q)
TRANSMUL(N,M,A,P,ST,T)
TRANSMUL(N,M,A,P,SD,D)
%END
NEWLINES(2); SPACES(9)
```

LISTING OF COMPUTER PROGRAMME (CONTINUED)

```
                        !PRINT Q MATRIX
%CYCLE SI=1,1,N
  %CYCLE SJ=1,1,N
    PRINT(Q(SI,SJ),2,0)
  %REPEAT; SPACES(2)
  %CAPTION ␣F; PRINT(SI,2,0); SPACES(2)
  PRINT(T(SI,1),3,3); %CAPTION -
  PRINT(D(SI,1),4,3)
  %CAPTION /V; NEWLINE; SPACES(9)
%REPEAT; NEWLINES(2)
                        !MATRIX INVERSION
%BEGIN
%REALARRAY QIN(1:N,1:N)
MATINV(N,Q,QIN)
%CAPTION QIN; NEWLINE; SPACES(9)
MATPRINT(N,N,QIN)
MATMUL(N,N,A,QIN,T,T3)
MATMUL(N,N,A,QIN,D,D3)
                        !CALCULATE CIJ DIJ V
SUMD2=0; SUMCD=0
T3(N,1)=0; D3(N,1)=0
%CYCLE K=1,1,M-1
  SI=I(K)
  SJ=J(K)
  CIJ(K)=T2(K)-T3(N□A+SJ,1)-T3(SI,1)
  DIJ(K)=D2(K)-D3(SI,1)-D3(N□A+SJ,1)
  SUMD2=SUMD2+DIJ(K)*DIJ(K)
  SUMCD=SUMCD+CIJ(K)*DIJ(K)
%REPEAT
CIJ(M)=T2(M)-T3(N,1)
DIJ(M)=D2(M)-D3(N,1)
SUMD2=SUMD2+DIJ(M)*DIJ(M)
SUMCD=SUMCD+CIJ(M)*DIJ(M)
V=SUMD2/SUMCD
V1=1/V
            !CALCULATE DEL DEL2 DBAR
SUMDEL2=0
%CYCLE K=1,1,M
  DEL(K)=CIJ(K)-DIJ(K)/V
  DEL2(K)=DEL(K)*DEL(K)
  SUMDEL2=SUMDEL2+DEL2(K)
%REPEAT
%CYCLE H=1,1,N
  SDEL2(H)=0
  DBAR(H)=0
%REPEAT
%CYCLE K=1,1,M-1
  SDEL2(I(K))=SDEL2(I(K))+DEL2(K)
  SDEL2(J(K)+N□A)=SDEL2(J(K)+N□A)+DEL2(K)
  DBAR(I(K))=DBAR(I(K))+SD(K,1)
  DBAR(J(K)+N□A)=DBAR(J(K)+N□A)+SD(K,1)
%REPEAT
NEWLINE; SPACES(9)
```

LISTING OF COMPUTER PROGRAMME (CONTINUED)

```
%CAPTION DATA␣SET␣␣; PRINT(IDNO,4,0)
NEWLINES(2); SPACES(9)
%CAPTION ␣␣V=; PRINT(V,2,3); SPACES(8)
%CAPTION SD␣V=
PRINTFL(V*V*SQRT(SUMDEL2/(SUMD2*(M-N-1))),3)
NEWLINE; SPACES(9)
%CAPTION ␣1/V=; PRINT(V1,1,4)
%CAPTION ␣␣␣␣␣SD␣1/V=
SDV1'=SQRT(SUMDEL2/(SUMD2*(M-N-1))); PRINTFL(SDV1',3)
NEWLINES(2); SPACES(9)
%CAPTION SUM␣OF␣SQUARED␣RESIDUALS=; PRINTFL(SUMDEL2,3)
NEWLINES(2); SPACES(9)
%CAPTION SD␣OF␣T=; PRINTFL(SQRT(SUMDEL2/(M-N-1)),3)
NEWLINES(2); SPACES(9)
%CAPTION SUMDIJX2; PRINT(SUMD2,5,3)
NEWLINES(2); SPACES(9)
%CAPTION LOCATION␣␣␣␣␣␣␣␣␣␣␣␣␣␣␣TIME␣TERMS
%CAPTION ␣␣␣␣␣␣␣␣␣␣␣SD␣OF␣TT
%CYCLE K=1,1,NOA
  NEWLINE; SPACES(9)
  PRINT(EE(K),4,0); SPACES(4)
  PRINT(T3(K,1),3,3); %CAPTION -
  PRINT(D3(K,1),3,3); %CAPTION /V; SPACES(2)
  PRINT(T3(K,1)-D3(K,1)/V,3,3); SPACES(2)
  SDTT1(K)=SQRT(QIN(K,K)*SUMDEL2/(M-N-1))
  PRINT(SDTT1(K),3,3)
%REPEAT
NEWLINE
%CYCLE K=NOA+1,1,N
  NEWLINE; SPACES(9)
  PRINT(FF(K-NOA),4,0); SPACES(4)
  PRINT(T3(K,1),3,3); %CAPTION -
  PRINT(D3(K,1),3,3); %CAPTION /V; SPACES(2)
  PRINT(T3(K,1)-D3(K,1)/V,3,3); SPACES(2)
  SDTT1(K)=SQRT(QIN(K,K)*SUMDEL2/(M-N-1))
  PRINT(SDTT1(K),3,3)
%REPEAT
NEWLINES(2); SPACES(23)
%CAPTION ␣CIJ␣␣␣␣␣␣␣␣DIJ␣␣␣␣␣␣␣␣DIJX2␣␣␣␣␣␣DELIJ; NEWLINE
%CYCLE K=1,1,M-1
  SI=I(K); SJ=J(K)
  PRINT(AA(K),3,0); PRINT(BB(K),3,0); SPACES(2)
  PRINT(CIJ(K),3,3); SPACES(2)
  PRINT(DIJ(K),3,3); SPACES(2)
  PRINT(DIJ(K)*DIJ(K),4,3); SPACES(2)
  PRINT(DEL(K),3,3)
  NEWLINE; SPACES(9)
%REPEAT
SPACES(5); PRINT(FF(NOB),3,0); SPACES(2)
PRINT(CIJ(M),3,3); SPACES(2)
PRINT(DIJ(M),3,3); SPACES(2)
PRINT(DIJ(M)*DIJ(M),4,3); SPACES(2)
PRINT(DEL(M),3,3)
NEWLINES(2); SPACES(9)
```

LISTING OF COMPUTER PROGRAMME (CONTINUED)

```
%CAPTION LOCATION      SDEL2      SD OF DATA    2SD OF TT
%CAPTION      (1SD OF TT)
NEWLINE; SPACES(9)
%CYCLE H=1,1,NOA
  PRINT(EE(H),4,0); SPACE
  PRINT(Q(H,H),2,0); SPACES(2)
  PRINTFL(SDEL2(H),3); SPACES(2)
  PRINTFL(SQRT(SDEL2(H)/(Q(H,H)-1)),3); SPACES(2)
  SDTT2(H)=SQRT(SDEL2(H)/((Q(H,H)-1)*Q(H,H)))
  PRINTFL(SDTT2(H),3); SPACES(2)
  PRINTFL(SDTT1(H),3)
  NEWLINE; SPACES(9)
%REPEAT
NEWLINE
%CYCLE H=NOA+1,1,N
  PRINT(FF(H-NOA),4,0); SPACE
  PRINT(Q(H,H),2,0); SPACES(2)
  PRINTFL(SDEL2(H),3); SPACES(2)
  PRINTFL(SQRT(SDEL2(H)/(Q(H,H)-1)),3); SPACES(2)
  SDTT2(H)=SQRT(SDEL2(H)/((Q(H,H)-1)*Q(H,H)))
  PRINTFL(SDTT2(H),3); SPACES(2)
  PRINTFL(SDTT1(H),3)
  NEWLINE; SPACES(9)
%REPEAT
NEWLINES(2); SPACES(9)
%CAPTION LOCATION      DBAR        SDTV         1SDTV
%CAPTION         2SDTV
NEWLINE; SPACES(9)
%CYCLE H=1,1,NOA
  PRINT(EE(H),4,0); SPACE
  PRINT(Q(H,H),2,0); SPACES(2)
  DBAR(H)=DBAR(H)/Q(H,H)
  PRINT(DBAR(H),3,2); SPACES(3)
  SDTV(H)=SDV1'*DBAR(H)
  PRINTFL(SDTV(H),3); SPACES(3)
  PRINTFL(RADIUS(SDTV(H),SDTT1(H)),3); SPACES(3)
  PRINTFL(RADIUS(SDTV(H),SDTT2(H)),3)
  NEWLINE; SPACES(9)
%REPEAT
%CYCLE H=NOA+1,1,N
  NEWLINE; SPACES(9)
  PRINT(FF(H-NOA),4,0); SPACE
  PRINT(Q(H,H),2,0); SPACES(2)
  DBAR(H)=DBAR(H)/Q(H,H)
  PRINT(DBAR(H),3,2); SPACES(3)
  SDTV(H)=SDV1'*DBAR(H)
  PRINTFL(SDTV(H),3); SPACES(3)
  PRINTFL(RADIUS(SDTV(H),SDTT1(H)),3); SPACES(3)
  PRINTFL(RADIUS(SDTV(H),SDTT2(H)),3)
%REPEAT
PLOT DISTRIBUTION(M,15,58,DD,DEL)
%END
%END
NEWPAGE
%END
->1
```

LISTING OF COMPUTER PROGRAMME (CONTINUED)

```
%ROUTINE TRANSMUL(%INTEGERNAME N,M,R,%ARRAYNAME PT,P,Q)
!PRODUCT OF MXN TRANSPOSED AND MXR MATRICES
%INTEGER K,I,J; %REAL S
%CYCLE K=1,1,N
  %CYCLE J=1,1,R
    S=0
    %CYCLE I=1,1,M
      S=S+PT(I,K)*P(I,J)
    %REPEAT
    Q(K,J)=S
  %REPEAT
%REPEAT
%RETURN
%END


%ROUTINE MATMUL(%INTEGERNAME N,M,R,%ARRAYNAME PT,P,Q)
!PRODUCT OF NXM AND MXR MATRICES
%INTEGER K,I,J; %REAL S
%CYCLE K=1,1,N
  %CYCLE J=1,1,R
    S=0
    %CYCLE I=1,1,M
      S=S+PT(K,I)*P(I,J)
    %REPEAT
    Q(K,J)=S
  %REPEAT
%REPEAT
%RETURN
%END


%ROUTINE MATINV(%INTEGERNAME N,%ARRAYNAME X,Y)
!SYMMETRIC 2D MATRIX INVERSION
%INTEGER I,IJ,IM,J,JM,K,KN,M,MM,MI,NN,MJ
%REAL EK
I=N*N
%REALARRAY A,B(1:I)
%CYCLE I=1,1,N
  %CYCLE J=1,1,N
    A((I-1)*N+J)=X(I,J)
  %REPEAT
%REPEAT
B(1)=1/A(1)
NN=N*N
%CYCLE I=2,1,NN
  B(I)=0
%REPEAT
MM=1;  KN=0
```

LISTING OF COMPUTER PROGRAMME (CONTINUED)

```
%CYCLE M=2,1,N
  K=M-1
  MM=MM+1+N
  KN=KN+N
  EK=A(MM)
  MI=M-N
  %CYCLE I=1,1,K
    MI=MI+N
    IJ=I-N
    JM=KN
    %CYCLE J=1,1,K
      IJ=IJ+N
      JM=JM+1
      EK=EK-A(MI)*B(IJ)*A(JM)
    %REPEAT
  %REPEAT
  B(MM)=1/EK
  MI=M-N
  IM=KN
  %CYCLE I=1,1,K
    IM=IM+1
    IJ=I-N
    JM=KN
    %CYCLE J=1,1,K
      IJ=IJ+N
      JM=JM+1
      B(IM)=B(IM)-B(IJ)*A(JM)*B(MM)
    %REPEAT
    MI=MI+N
    B(MI)=B(IM)
  %REPEAT
  IM=KN
  %CYCLE I=1,1,K
    IM=IM+1
    MJ=M-N
    IJ=I-N
    %CYCLE J=1,1,K
      MJ=MJ+N
      IJ=IJ+N
      B(IJ)=B(IJ)+B(IM)*B(MJ)*EK
    %REPEAT
  %REPEAT
%REPEAT
%CYCLE I=1,1,N
  %CYCLE J=1,1,N
    Y(I,J)=B((I-1)*N+J)
  %REPEAT
%REPEAT
%END
```

LISTING OF COMPUTER PROGRAMME (CONTINUED)

```
%ROUTINE MATPRINT(%INTEGERNAME M,N,%ARRAYNAME P)
!PRINTS MXN MATRIX
%INTEGER SI,SJ
%CYCLE SI=1,1,M
  %CYCLE SJ=1,1,N
    PRINT(P(SI,SJ),2,3)
  %REPEAT; NEWLINES(2); SPACES(9)
%REPEAT; NEWLINES(6)
%END

%ROUTINE PLOT DISTRIBUTION(%INTEGER M,L,S,%ARRAYNAME X,Y)
%REAL P,Q,XMAX,XMIN,YMAX,YMIN
%INTEGER I,J,A,B,SUM
%INTEGERARRAY PLOT(1:L,1:S),XSUM(1:L)
%SWITCH SW(0:14),ST(0:14)
YMAX=Y(1); YMIN=YMAX; XMAX=X(1); XMIN=XMAX
%CYCLE I=1,1,M
  YMAX=Y(I) %IF Y(I)>YMAX
  XMAX=X(I) %IF X(I)>XMAX
  YMIN=Y(I) %IF Y(I)<YMIN
  XMIN=X(I) %IF X(I)<XMIN
%REPEAT
P=(L-1)/(YMAX-YMIN)
Q=(S-1)/(XMAX-XMIN)
%CYCLE I=1,1,L
  %CYCLE J=1,1,S
    PLOT(I,J)=0
    PLOT(I,J)=1 %IF I=1 %OR I=L
  %REPEAT
  PLOT(I,1)=2
  PLOT(I,S)=2
%REPEAT
%CYCLE I=1,1,L
  ->78 %UNLESS I=1+INT(P*(-YMIN))
  %CYCLE J=1,1,S
    PLOT(I,J)=4
  %REPEAT
  ->95
78:%REPEAT
95:%CYCLE I=1,1,M
  A=1+INT(P*(Y(I)-YMIN))
  B=1+INT(Q*(X(I)-XMIN))
  ->5 %IF PLOT(A,B)<5
  ->7 %IF PLOT(A,B)>13
  ->ST(PLOT(A,B))
  ST(5):PLOT(A,B)=6; ->1
  ST(6):PLOT(A,B)=7; ->1
  ST(7):PLOT(A,B)=8; ->1
  ST(8):PLOT(A,B)=9; ->1
  ST(9):PLOT(A,B)=10; ->1
  ST(10):PLOT(A,B)=11; ->1
  ST(11):PLOT(A,B)=12; ->1
  ST(12):PLOT(A,B)=13; ->1
  7:ST(13):PLOT(A,B)=14; ->1
  5:PLOT(A,B)=5
1:%REPEAT
```

LISTING OF COMPUTER PROGRAMME (CONTINUED)

```
NEWPAGE
SPACES(9); %CAPTION DATA␣SET␣; PRINT(IDNO,4,0)
%CAPTION ␣␣:␣DISTRIBUTION␣OF␣RESIDUALS
NEWLINES(2)
%CYCLE I=L,-1,1
  SUM=0; NEWLINE; SPACES(9)
  %CYCLE J=1,1,S
    ->SW(PLOT(I,J))
    SW(1):%CAPTION .; ->6; !PLOTS HORIZONTAL BOUNDARY
    SW(2):%CAPTION .; ->6; !PLOTS VERTICAL BOUNDARY
    SW(0):%CAPTION ␣; ->6; !PLOTS SPACES
    SW(3):%CAPTION Y; ->6; !PLOTS CURVE
    SW(4):%CAPTION -; ->6; !PLOTS X AXIS
    SW(5):%CAPTION 1; SUM=SUM+1; ->6; !PLOTS FIRST POINT
    SW(6):%CAPTION 2; SUM=SUM+2; ->6
    SW(7):%CAPTION 3; SUM=SUM+3; ->6
    SW(8):%CAPTION 4; SUM=SUM+4; ->6
    SW(9):%CAPTION 5; SUM=SUM+5; ->6
    SW(10):%CAPTION 6; SUM=SUM+6; ->6
    SW(11):%CAPTION 7; SUM=SUM+7; ->6
    SW(12):%CAPTION 8; SUM=SUM+8; ->6
    SW(13):%CAPTION 9; SUM=SUM+9; ->6
    SW(14):%CAPTION +; SUM=SUM+10
  6:%REPEAT
  XSUM(I)=SUM
  XSUM(I)=SUM-1 %IF I=1+INT(P*(-YMIN))
%REPEAT
NEWLINES(2); SPACES(9)
%CAPTION DISTRIBUTION␣BY␣DISTANCE␣AND␣SIZE
NEWLINE; SPACES(9)
%CAPTION RANGE␣OF ␣X␣AXIS␣IS␣; PRINT(XMIN,2,2)
%CAPTION ␣␣TO; PRINT(XMAX,3,2)
NEWLINE; SPACES(9)
%CAPTION RANGE␣OF␣Y␣AXIS␣IS; PRINT(YMIN,3,3)
%CAPTION ␣TO␣; PRINT(YMAX,2,3); NEWLINE
SUM=0
%CYCLE I=1,1,L
  SUM=XSUM(I) %IF XSUM(I)>SUM
%REPEAT
NEWLINES(5)
%CYCLE I=SUM,-1,1
  NEWLINE; SPACES(9)
  %CYCLE J=1,1,L
    %IF XSUM(J)>=I %THEN %CAPTION @@@
    %IF XSUM(J)<I %THEN SPACES(3)
  %REPEAT
%REPEAT
NEWLINE; SPACES(9)
```

LISTING OF COMPUTER PROGRAMME (CONTINUED)

```
SUM=0
%CYCLE I=1,1,L
  ->4 %IF I=1+INT(P*(-YMIN))
  ->2 %IF SUM=1
  %CAPTION ---; ->3
  4:%CAPTION -0+; SUM=1; ->3
  2:%CAPTION +++
3:%REPEAT
NEWLINES(2); SPACES(9); %CAPTION DISTRIBUTION␣BY␣SIZE
NEWLINE; SPACES(9)
%CAPTION RANGE␣OF␣X␣AXIS␣IS␣; PRINT(YMIN,1,3)
%CAPTION ␣␣TO; PRINT(YMAX,1,3)
NEWLINE
%END


%ENDOFPROGRAM
```

APPENDIX B : DATA SETS AND SOLUTIONS

B.1. NOTATION OF COMPUTER OUTPUT

B.1.1 Data Set

After the data set identification, the six numbers in the first row represent:

(i) Maximum expected number of observations

(ii) Maximum expected number of shots

(iii) Maximum expected number of stations

(iv) Number of observations counted

(v) Number of shots counted

(vi) Number of stations counted

Then follows a listing of the data, the six numbers in each row representing:

(i) shot identification

(ii) station identification

(iii) travel time

(iv) distance

(v) sequence number for shot

(vi) sequence number for station

B.1.2 Solution

The print-out of solution for data set 2031 shows the matrices $[q]$ and $[q^{-1}]$ (as defined by Equations (14) and (15)). These were used for checking during development and are not printed out in

solutions for later data sets.

V: velocity, v.

SD V: standard deviation of velocity. $\sigma(v)$. Equation (23).

SD 1/V: standard deviation of 1/velocity. $\sigma(\frac{1}{v})$. Equation(29).

SUM OF SQUARED RESIDUALS: $\Sigma \delta_{ij}^2$, where δ_{ij} is given by Equation (20).

SD OF T: standard deviation of one time observation, $\sigma(t)$. Equation (30).

SUMDIJX2: $\Sigma (d_{ij})^2$, where d_{ij} is given by Equation (21).

Under the heading TIME TERMS, the time-terms are listed in two forms: firstly in terms of an undefined velocity, and secondly as the value given by the calculated velocity.

SD OF TT: standard deviation of time-term assuming uniform quality of data for all survey points.

CIJ: c_{ij}, as defined by Equation (21).

DIJ: d_{ij}, as defined by Equation (21).

DIJX2: $(d_{ij})^2$

DELIJ: residual, δ_{ij}. Equation (20).

In the listing of CIJ, DIJ, etc., the first two columns represent shot and station identifications respectively, as in the listing of data.

SDEL2: sum of squares of residuals for all connections to the survey point listed.

SD OF DATA: standard deviation of data for the survey point listed. Equation (33).

2SD OF TT: standard deviation of time-term for the survey point listed, treating data for each survey point separately. Equation (34).

(1SD OF TT): standard deviation of time term for the survey point listed, assuming uniform quality of data for all survey points, as calculated previously.

The first column in this tabulation gives the shot or station identification; the second column gives the number of connections involved.

DBAR: mean distance for all connections to the survey point listed.

SDTV: contribution of the standard deviation of velocity to the final standard deviation of time-term. Equation (39).

1SDTV: combination of SDTV and 1SD OF TT. Equation (40).

2SDTV: combination of SDTV and 2SD OF TT. Equation (40).

$\neq$: $\pm$

B.1.3 Survey point identifications

British Isles Stations:

1	BD	Ballyduff, Offaly.
2	FG	Foel Gasyth, Denbigh.
3	MA	Mynydd Anelog, Caernarvon.
4	PC	Painscastle, Radnor.
5	EKA	Eskdalemuir, Dumfries.
6	RH	Rookhope, Durham.

British Isles Shots:

One or two digits: Irish Sea project, original numbers (denoting 9A and 9B by 91 and 92 respectively).

Three digits, 100 series: Seagull II project, west.

Three digits, 200 series: Seagull II project, east .

Jutland-Skagerrak Stations: Original numbers.

Jutland-Skagerrak Shots: Four digits, the first two denoting the year and the remainder the shot number. Sites of repeated shots are all given the number of the first shot, e.g. 1964 shots 4, 8, and 14 are each denoted by 6404.

INDEX OF DATA SETS AND SOLUTIONS

DATA SETS AND SOLUTIONS (IN NUMERICAL ORDER)

2031: SHORT EXAMPLE (JUTLAND-SKAGERRAK 7.8)

2034: JUTLAND-SKAGERRAK 7.8 (NEGLECTING DIP)

2039: IRISH SEA 6.3 (INCLUDING RANGES > 200KM)

2040: " " 7.3 BASIC SET

2043: " " " " " (PLUS SHOT 12)

2044: " " " " " (PLUS SHOTS 11 & 12)

2048: IRISH SEA + SEAGULL 8.1

2050: IRISH SEA 6.1 (EXCLUDING RANGES > 200 KM)

2053: JUTLAND-SKAGERRAK 6.5

2054: " " " (MINUS 1 OBSERVATION)

2055: " " 8.1 (WITH DIP CORRECTIONS)

2056: AGGER & CARPENTER 8.0

2063: " " 6.1

2066-2072: SPECIMEN SETS FOR CONSISTENCY TESTING

2075: IRISH SEA + SEAGULL (ALL RANGES > 125 KM)

DATA SET 2031

30	10	15	19	6	7
6405	34	26.38	155.85	1	1
6405	30	19.93	105.10	1	2
6405	29	18.26	93.09	1	3
6204	44	23.43	141.42	2	4
6204	24	26.14	150.02	2	5
6204	22	28.09	171.96	2	6
6203	44	22.54	134.20	3	4
6203	24	27.04	157.37	3	5
6203	22	28.96	179.30	3	6
6202	44	21.54	127.06	4	4
6202	32	17.42	81.35	4	7
6201	44	20.66	120.06	5	4
6201	32	18.21	88.47	5	7
6201	24	28.77	171.76	5	5
6201	22	30.74	193.69	5	6
6501	34	25.86	154.76	6	1
6501	32	29.56	184.61	6	7
6501	30	32.39	205.51	6	2
6501	29	33.74	217.51	6	3

DATA SET 2031 : SPECIMEN MATRICES

P MATRIX:-

1	0	0	0	0	0	1	0	0	0	0	0	0
1	0	0	0	0	0	0	1	0	0	0	0	0
1	0	0	0	0	0	0	0	1	0	0	0	0
0	1	0	0	0	0	0	0	0	1	0	0	0
0	1	0	0	0	0	0	0	0	0	1	0	0
0	1	0	0	0	0	0	0	0	0	0	1	0
0	0	1	0	0	0	0	0	0	1	0	0	0
0	0	1	0	0	0	0	0	0	0	1	0	0
0	0	1	0	0	0	0	0	0	0	0	1	0
0	0	0	1	0	0	0	0	0	1	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0	1
0	0	0	0	1	0	0	0	0	1	0	0	0
0	0	0	0	1	0	0	0	0	0	0	0	1
0	0	0	0	1	0	0	0	0	0	1	0	0
0	0	0	0	1	0	0	0	0	0	0	1	0
0	0	0	0	0	1	1	0	0	0	0	0	0
0	0	0	0	0	1	0	0	0	0	0	0	1
0	0	0	0	0	1	0	1	0	0	0	0	0
0	0	0	0	0	1	0	0	1	0	0	0	0

Q MATRIX FORMING NORMAL EQUATIONS:-

3	0	0	0	0	0	1	1	1	0	0	0	0	A1	64.57 -354.04/V
0	3	0	0	0	0	0	0	0	1	1	1	0	A2	77.66 -463.40/V
0	0	3	0	0	0	0	0	0	1	1	1	0	A3	78.54 -470.87/V
0	0	0	2	0	0	0	0	0	1	0	0	1	A4	38.96 -208.41/V
0	0	0	0	4	0	0	0	0	1	1	1	1	A5	98.38 -573.98/V
0	0	0	0	0	4	1	1	1	0	0	0	1	A6	121.55 -762.39/V
1	0	0	0	0	1	2	0	0	0	0	0	0	B1	52.24 -310.61/V
1	0	0	0	0	1	0	2	0	0	0	0	0	B2	52.32 -310.61/V
1	0	0	0	0	1	0	0	2	0	0	0	0	B3	52.00 -310.60/V
0	1	1	1	1	0	0	0	0	4	0	0	0	B4	88.17 -522.74/V
0	1	1	0	1	0	0	0	0	0	3	0	0	B5	81.95 -479.15/V
0	1	1	0	1	0	0	0	0	0	0	3	0	B6	87.79 -544.95/V
0	0	0	1	1	1	0	0	0	0	0	0	4	B7	65.19 -354.43/V

DATA SET 2031 : SPECIMEN MATRICES

INVERSE Q MATRIX:-

2·67	1·00	1·00	1·00	1·00	2·00	-2·33	-2·33
-2·33	-1·00	-1·00	-1·00				
1·00	2·17	1·83	1·37	1·62	1·00	-1·00	-1·00
-1·00	-1·75	-1·87	-1·87	-1·00			
1·00	1·83	2·17	1·37	1·62	1·00	-1·00	-1·00
-1·00	-1·75	-1·87	-1·87	-1·00			
1·00	1·37	1·37	1·72	1·28	1·00	-1·00	-1·00
-1·00	-1·44	-1·34	-1·34	-1·00			
1·00	1·62	1·62	1·28	1·72	1·00	-1·00	-1·00
-1·00	-1·56	-1·65	-1·65	-1·00			
2·00	1·00	1·00	1·00	1·00	2·00	-2·00	-2·00
-2·00	-1·00	-1·00	-1·00	-1·00			
-2·33	-1·00	-1·00	-1·00	-1·00	-2·00	2·67	2·17
2·17	1·00	1·00	1·00	1·00			
-2·33	-1·00	-1·00	-1·00	-1·00	-2·00	2·17	2·67
2·17	1·00	1·00	1·00	1·00			
-2·33	-1·00	-1·00	-1·00	-1·00	-2·00	2·17	2·17
2·67	1·00	1·00	1·00	1·00			
-1·00	-1·75	-1·75	-1·44	-1·56	-1·00	1·00	1·00
1·00	1·87	1·69	1·69	1·00			
-1·00	-1·87	-1·87	-1·34	-1·66	-1·00	1·00	1·00
1·00	1·69	2·13	1·80	1·00			
-1·00	-1·87	-1·87	-1·34	-1·66	-1·00	1·00	1·00
1·00	1·69	1·80	2·13	1·00			
-1·00	-1 00	-1 00	-1·00	-1·00	-1·00	1·00	1·00
1·00	1·00	1·00	1·00	1·00			

SOLUTION FOR DATA SET 2031

V= 7.850 SD V= 3.086@ -2
1/V= 0.1274 SD 1/V= 5.007@ -4

SUM OF SQUARED RESIDUALS= 7.643@ -3

SD OF T= 3.569@ -2

SUMDIJX2= 5080.218

LOCATION	TIME TERMS		SD OF TT
6405	20.420-	110.030/V	6.404	0.058
6204	17.501-	81.774/V	7.084	0.053
6203	17.794-	84.264/V	7.060	0.053
6202	17.324-	80.845/V	7.026	0.047
6201	18.306-	88.975/V	6.972	0.047
6501	29.560-	184.610/V	6.044	0.050
34	1.130-	7.985/V	0.113	0.058
30	1.170-	7.985/V	0.153	0.058
29	1.010-	7.980/V	-0.007	0.058
44	4.311-	46.721/V	-1.640	0.049
24	9.450-	74.712/V	-0.067	0.052
22	11.396-	96.646/V	-0.914	0.052
32	0.000-	0.000/V	0.000	0.036

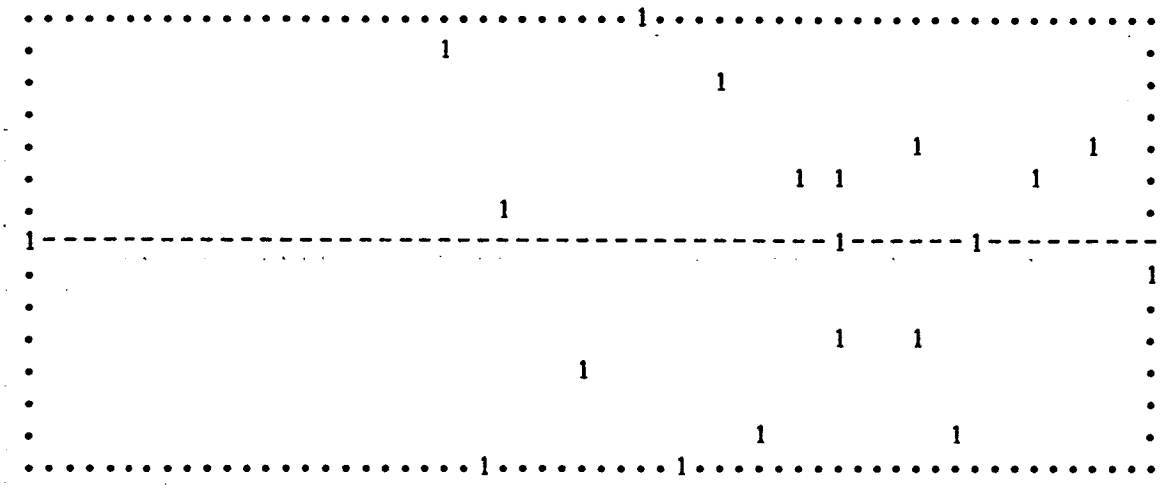
		CIJ	DIJ	DIJX2	DELIJ
6405	34	4.830	37.835	1431.487	0.010
6405	30	-1.660	-12.915	166.797	-0.015
6405	29	-3.170	-24.920	621.006	0.004
6204	44	1.618	12.926	167.072	-0.029
6204	24	-0.811	-6.466	41.811	0.013
6204	22	-0.807	-6.459	41.725	0.016
6203	44	0.435	3.216	10.340	0.025
6203	24	-0.204	-1.606	2.580	0.001
6203	22	-0.231	-1.609	2.590	-0.026
6202	44	-0.096	-0.505	0.255	-0.031
6202	32	0.096	0.505	0.255	0.031
6201	44	-1.957	-15.636	244.483	0.035
6201	32	-0.096	-0.505	0.255	-0.031
6201	24	1.015	8.072	65.162	-0.014
6201	22	1.038	8.069	65.108	0.010
6501	34	-4.830	-37.835	1431.487	-0.010
6501	32	-0.000	-0.000	0.000	-0.000
6501	30	1.660	12.915	166.797	0.015
6501	29	3.170	24.920	621.006	-0.004

SOLUTION FOR DATA SET 2031 (CONTINUED)

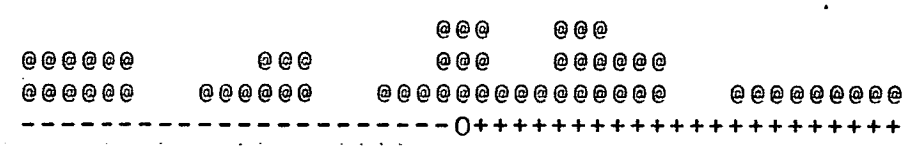
LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
6405	3	3.500@ -4	1.323@ -2	7.638@ -3	5.828@ -2
6204	3	1.228@ -3	2.478@ -2	1.431@ -2	5.254@ -2
6203	3	1.280@ -3	2.529@ -2	1.460@ -2	5.254@ -2
6202	2	1.954@ -3	4.420@ -2	3.126@ -2	4.679@ -2
6201	4	2.481@ -3	2.876@ -2	1.438@ -2	4.679@ -2
6501	4	3.500@ -4	1.080@ -2	5.401@ -3	5.047@ -2
34	2	2.203@ -4	1.484@ -2	1.050@ -2	5.828@ -2
30	2	4.416@ -4	2.101@ -2	1.486@ -2	5.828@ -2
29	2	3.809@ -5	6.171@ -3	4.364@ -3	5.828@ -2
44	4	3.633@ -3	3.480@ -2	1.740@ -2	4.887@ -2
24	3	3.578@ -4	1.338@ -2	7.723@ -3	5.216@ -2
22	3	9.984@ -4	2.234@ -2	1.290@ -2	5.216@ -2
32	4	1.954@ -3	2.552@ -2	1.276@ -2	3.569@ -2

LOCATION		DBAR	SDTV	1SDTV	2SDTV
6405	3	118.01	5.909@ -2	8.300@ -2	5.959@ -2
6204	3	154.47	7.735@ -2	9.350@ -2	7.866@ -2
6203	3	156.96	7.859@ -2	9.454@ -2	7.994@ -2
6202	2	104.20	5.218@ -2	7.009@ -2	6.083@ -2
6201	4	143.50	7.185@ -2	8.575@ -2	7.328@ -2
6501	4	190.60	9.544@ -2	1.080@ -1	9.559@ -2
34	2	155.31	7.777@ -2	9.718@ -2	7.847@ -2
30	2	155.31	7.777@ -2	9.718@ -2	7.917@ -2
29	2	155.30	7.777@ -2	9.718@ -2	7.789@ -2
44	4	130.68	6.544@ -2	8.167@ -2	6.771@ -2
24	3	159.72	7.998@ -2	9.548@ -2	8.035@ -2
22	3	181.65	9.096@ -2	1.049@ -1	9.187@ -2
32	4	88.61	4.437@ -2	5.694@ -2	4.617@ -2

DATA SET 2031 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 217.51
RANGE OF Y AXIS IS -0.031 TO 0.035



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.031 TO 0.035

DATA SET 2034

80	12	25	68	8	18
6202	32	17.42	81.35	1	1
6201	32	18.21	88.47	2	1
6204	47	18.66	93.95	3	2
6203	47	19.59	101.10	4	2
6204	24	26.14	150.02	3	3
6203	24	27.04	157.37	4	3
6201	24	28.77	171.76	2	3
6204	22	28.09	171.96	3	4
6203	22	28.96	179.30	4	4
6201	22	30.74	193.69	2	4
6201	44	20.66	120.06	2	5
6202	44	21.54	127.06	1	5
6203	44	22.54	134.20	4	5
6204	44	23.43	141.42	3	5
6405	27	16.43	75.37	5	6
6405	27	16.40	75.41	5	6
6405	27	16.40	75.41	5	6
6404	27	16.46	76.91	6	6
6401	27	16.72	78.48	7	6
6401	27	16.73	78.51	7	6
6405	28	16.99	80.79	5	7
6404	28	17.09	82.33	6	7
6404	28	17.10	82.33	6	7
6401	28	17.25	83.93	7	7
6405	29	18.26	93.09	5	8
6405	29	18.27	93.10	5	8
6405	29	18.24	93.09	5	8
6405	30	19.93	105.10	5	9
6405	30	19.78	105.10	5	9
6404	30	19.97	106.60	6	9
6401	30	20.17	108.20	7	9
6405	31	21.79	119.70	5	10
6405	31	21.82	119.70	5	10
6405	31	21.83	119.70	5	10
6404	31	21.79	121.20	6	10
6401	31	22.10	122.79	7	10
6405	33	24.11	139.75	5	11
6401	33	24.50	142.85	7	11
6405	34	26.38	155.85	5	12
6405	38	46.49	325.38	5	13
6401	38	46.75	328.47	7	13
6405	39	46.74	327.48	5	14
6405	39	46.64	327.48	5	14
6401	39	47.05	330.58	7	14
6401	39	46.81	330.58	7	14
6404	40	50.26	354.89	6	15
6401	40	50.39	356.49	7	15

DATA SET 2034 (CONTINUED)

6501	34	25.86	154.76	8	12
6501	33	28.42	174.80	8	11
6501	32	29.56	184.61	8	1
6501	31	30.43	190.92	8	10
6501	30	32.39	205.51	8	9
6501	29	33.74	217.51	8	8
6501	35	25.27	150.03	8	16
6201	26	26.72	150.10	2	17
6202	24	28.26	164.64	1	3
6203	26	24.89	135.71	4	17
6204	26	23.84	128.36	3	17
6405	28	16.94	80.83	5	7
6405	35	27.22	160.61	5	16
6405	37	29.40	176.62	5	18
6405	37	29.41	176.62	5	18
6401	37	29.64	179.72	7	18
6405	34	26.38	155.86	5	12
6405	34	26.44	155.85	5	12
6405	34	26.37	155.85	5	12
6404	34	26.58	157.35	6	12
6401	34	26.80	158.95	7	12

SOLUTION FOR DATA SET 2034

V= 7.781 SD V= 4.058@ -2
1/V= 0.1285 SD 1/V= 6.703@ -4

SUM OF SQUARED RESIDUALS= 2.140@ -1

SD OF T= 7.138@ -2

SUMDIJX2= 11340.451

LOCATION	TIME TERMS		SD OF TT
6202	24.154-	130.389/V	7.396	0.128
6201	24.810-	136.739/V	7.237	0.128
6204	23.402-	125.335/V	7.293	0.133
6203	23.974-	129.729/V	7.301	0.133
6405	29.367-	176.466/V	6.687	0.083
6404	29.410-	177.563/V	6.589	0.088
6401	29.716-	180.028/V	6.579	0.084
6501	36.227-	233.264/V	6.248	0.089
32	-6.667-	-48.654/V	-0.414	0.114
47	-4.563-	-30.007/V	-0.706	0.141
24	3.468-	30.399/V	-0.439	0.132
22	5.202-	51.049/V	-1.359	0.135
44	-2.042-	0.137/V	-2.060	0.132
27	-12.967-	-101.155/V	0.033	0.088
28	-12.380-	-95.575/V	-0.096	0.089
29	-8.955-	-66.468/V	-0.412	0.091
30	-8.369-	-62.655/V	-0.317	0.089
31	-7.282-	-54.374/V	-0.294	0.088
33	-6.093-	-44.119/V	-0.423	0.093
34	-4.002-	-28.893/V	-0.288	0.087
38	17.078-	148.678/V	-2.030	0.097
39	17.268-	150.783/V	-2.110	0.090
40	20.762-	176.894/V	-1.973	0.098
35	-6.552-	-49.545/V	-0.184	0.098
26	1.088-	7.455/V	0.130	0.135
37	0.000-	0.000/V	0.000	0.071

		CIJ	DIJ	DIJX2	DELIJ
6202	32	-0.067	-0.385	0.148	-0.017
6201	32	0.067	0.385	0.148	0.017
6204	47	-0.179	-1.378	1.899	-0.002
6203	47	0.179	1.378	1.899	0.002
6204	24	-0.729	-5.715	32.658	0.005
6203	24	-0.401	-2.759	7.610	-0.047
6201	24	0.492	4.622	21.363	-0.102
6204	22	-0.513	-4.424	19.574	0.056
6203	22	-0.215	-1.478	2.185	-0.025
6201	22	0.728	5.902	34.839	-0.031
6201	44	-2.108	-16.816	282.762	0.053
6202	44	-0.572	-3.466	12.014	-0.126
6203	44	0.609	4.334	18.782	0.052
6204	44	2.071	15.948	254.333	0.021

SOLUTION FOR DATA SET 2034 (CONTINUED)

6405	27	0.030	0.059	0.003	0.023
6405	27	0.000	0.099	0.010	-0.012
6405	27	0.000	0.099	0.010	-0.012
6404	27	0.017	0.501	0.251	-0.047
6401	27	-0.029	-0.394	0.155	0.022
6401	27	-0.019	-0.364	0.132	0.028
6405	28	0.003	-0.101	0.010	0.016
6404	28	0.060	0.342	0.117	0.016
6404	28	0.070	0.342	0.117	0.026
6401	28	-0.086	-0.523	0.273	-0.019
6405	29	-2.152	-16.908	285.879	0.021
6405	29	-2.142	-16.898	285.541	0.029
6405	29	-2.172	-16.908	285.879	0.001
6405	30	-1.068	-8.710	75.872	0.052
6405	30	-1.218	-8.710	75.872	-0.098
6404	30	-1.070	-8.308	69.020	-0.003
6401	30	-1.177	-9.173	84.138	0.002
6405	31	-0.295	-2.392	5.722	0.013
6405	31	-0.265	-2.392	5.722	0.043
6405	31	-0.255	-2.392	5.722	0.053
6404	31	-0.337	-1.989	3.958	-0.082
6401	31	-0.334	-2.864	8.204	0.034
6405	33	0.836	7.403	54.811	-0.115
6401	33	0.877	6.941	48.181	-0.015
6405	34	1.015	8.277	68.506	-0.049
6405	38	0.045	0.236	0.056	0.014
6401	38	-0.045	-0.236	0.056	-0.014
6405	39	0.105	0.231	0.053	0.075
6405	39	0.005	0.231	0.053	-0.025
6401	39	0.065	-0.231	0.053	0.095
6401	39	-0.175	-0.231	0.053	-0.145
6404	40	0.088	0.432	0.187	0.033
6401	40	-0.088	-0.432	0.187	-0.033
6501	34	-6.366	-49.611	2461.284	0.010
6501	33	-1.714	-14.345	205.770	0.130
6501	32	-0.000	0.000	0.000	-0.000
6501	31	1.485	12.030	144.716	-0.061
6501	30	4.532	34.901	1218.108	0.047
6501	29	6.467	50.714	2571.899	-0.051
6501	35	-4.405	-33.689	1134.954	-0.075
6201	26	0.821	5.906	34.878	0.062
6202	24	0.638	3.851	14.833	0.143
6203	26	-0.172	-1.475	2.175	0.018
6204	26	-0.650	-4.431	19.633	-0.080
6405	28	-0.047	-0.061	0.004	-0.039
6405	35	4.405	33.689	1134.954	0.075
6405	37	0.033	0.154	0.024	0.013
6405	37	0.043	0.154	0.024	0.023
6401	37	-0.076	-0.308	0.095	-0.037
6405	34	1.015	8.287	68.671	-0.050
6405	34	1.075	8.277	68.506	0.011
6405	34	1.005	8.277	68.506	-0.059
6404	34	1.172	8.679	75.333	0.056
6401	34	1.085	7.815	61.068	0.081

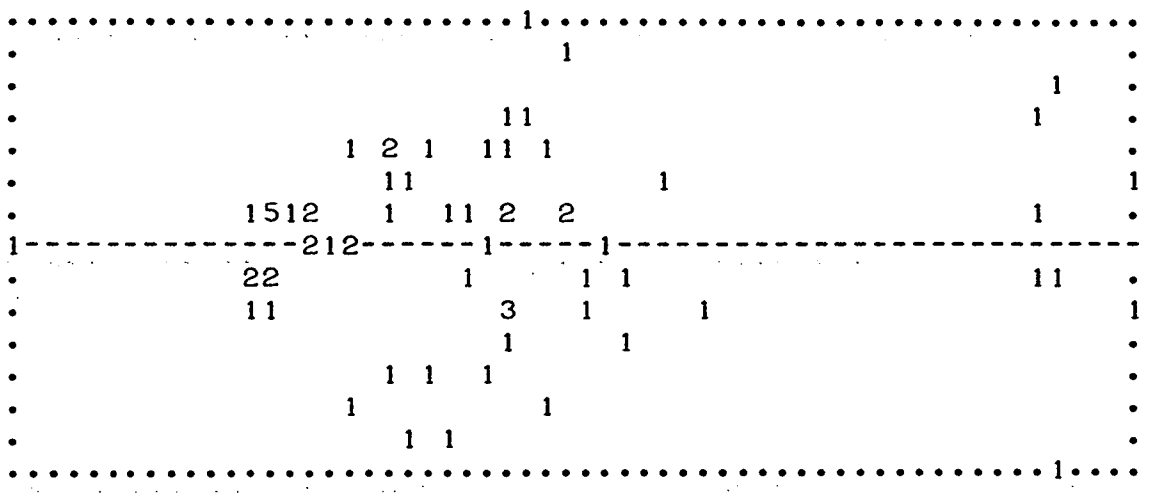
SOLUTION FOR DATA SET 2034 (CONTINUED)

LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
6202	3	3.677@ -2	1.356@ -1	7.829@ -2	1.279@ -1
6201	5	1.836@ -2	6.775@ -2	3.030@ -2	1.279@ -1
6204	5	1.001@ -2	5.002@ -2	2.237@ -2	1.333@ -1
6203	5	5.811@ -3	3.812@ -2	1.705@ -2	1.333@ -1
6405	24	5.564@ -2	4.919@ -2	1.004@ -2	8.290@ -2
6404	7	1.408@ -2	4.845@ -2	1.831@ -2	8.843@ -2
6401	12	4.221@ -2	6.195@ -2	1.788@ -2	8.433@ -2
6501	7	3.108@ -2	7.197@ -2	2.720@ -2	8.927@ -2
32	3	5.949@ -4	1.725@ -2	9.957@ -3	1.143@ -1
47	2	7.204@ -6	2.684@ -3	1.898@ -3	1.407@ -1
24	4	3.319@ -2	1.052@ -1	5.259@ -2	1.315@ -1
22	3	4.650@ -3	4.822@ -2	2.784@ -2	1.351@ -1
44	4	2.187@ -2	8.538@ -2	4.269@ -2	1.315@ -1
27	6	4.273@ -3	2.923@ -2	1.193@ -2	8.760@ -2
28	5	3.105@ -3	2.786@ -2	1.246@ -2	8.931@ -2
29	4	3.834@ -3	3.575@ -2	1.788@ -2	9.052@ -2
30	5	1.450@ -2	6.021@ -2	2.693@ -2	8.893@ -2
31	6	1.636@ -2	5.720@ -2	2.335@ -2	8.782@ -2
33	3	3.030@ -2	1.231@ -1	7.106@ -2	9.287@ -2
34	7	1.843@ -2	5.543@ -2	2.095@ -2	8.705@ -2
38	2	4.054@ -4	2.013@ -2	1.424@ -2	9.675@ -2
39	4	3.628@ -2	1.100@ -1	5.498@ -2	8.992@ -2
40	2	2.128@ -3	4.613@ -2	3.262@ -2	9.842@ -2
35	2	1.136@ -2	1.066@ -1	7.537@ -2	9.832@ -2
26	3	1.064@ -2	7.295@ -2	4.212@ -2	1.351@ -1
37	4	2.049@ -3	2.613@ -2	1.307@ -2	7.138@ -2

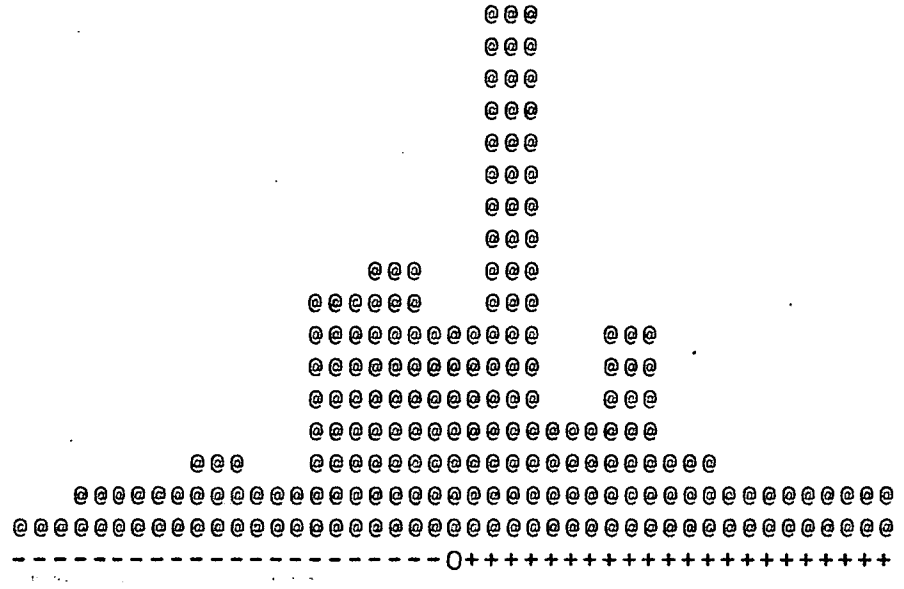
SOLUTION FOR DATA SET 2034 (CONTINUED)

LOCATION		DBAR	SDTV	1SDTV	2SDTV
6202	3	124.35	8.335@ -2	1.527@ -1	1.143@ -1
6201	5	144.82	9.706@ -2	1.606@ -1	1.017@ -1
6204	5	137.14	9.192@ -2	1.619@ -1	9.460@ -2
6203	5	141.54	9.487@ -2	1.636@ -1	9.639@ -2
6405	24	145.57	9.757@ -2	1.280@ -1	9.809@ -2
6404	7	140.23	9.399@ -2	1.291@ -1	9.576@ -2
6401	12	191.63	1.284@ -1	1.537@ -1	1.297@ -1
6501	7	182.59	1.224@ -1	1.515@ -1	1.254@ -1
32	3	118.14	7.919@ -2	1.391@ -1	7.981@ -2
47	2	97.52	6.537@ -2	1.552@ -1	6.539@ -2
24	4	160.95	1.079@ -1	1.701@ -1	1.200@ -1
22	3	181.65	1.218@ -1	1.819@ -1	1.249@ -1
44	4	130.68	8.759@ -2	1.580@ -1	9.744@ -2
27	6	76.68	5.140@ -2	1.016@ -1	5.276@ -2
28	5	82.04	5.499@ -2	1.049@ -1	5.638@ -2
29	4	124.20	8.324@ -2	1.230@ -1	8.514@ -2
30	5	126.10	8.452@ -2	1.227@ -1	8.871@ -2
31	6	132.34	8.870@ -2	1.248@ -1	9.172@ -2
33	3	152.47	1.022@ -1	1.381@ -1	1.245@ -1
34	7	156.35	1.048@ -1	1.362@ -1	1.069@ -1
38	2	326.92	2.191@ -1	2.395@ -1	2.196@ -1
39	4	329.03	2.205@ -1	2.382@ -1	2.273@ -1
40	2	355.69	2.384@ -1	2.579@ -1	2.406@ -1
35	2	155.32	1.041@ -1	1.432@ -1	1.285@ -1
26	3	138.06	9.253@ -2	1.638@ -1	1.017@ -1
37	4	133.24	8.931@ -2	1.143@ -1	9.026@ -2

DATA SET 2034 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 356.49
RANGE OF Y AXIS IS -0.145 TO 0.143



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.145 TO 0.143

DATA SET 2039

80	26	6	76	24	4
91	1	31.38	190.50	1	1
92	1	31.50	190.90	2	1
8	1	31.87	190.70	3	1
7	1	30.75	184.90	4	1
6	1	29.83	179.00	5	1
1	1	29.00	173.70	6	1
5	1	28.46	169.80	7	1
4	1	27.96	166.80	8	1
3	1	27.92	164.70	9	1
2	1	27.51	162.90	10	1
11	1	35.94	214.60	11	1
12	1	33.98	202.50	12	1
13	1	30.50	179.40	13	1
17	1	28.24	167.20	14	1
14	1	26.47	156.30	15	1
15	1	24.96	145.70	16	1
16	1	22.85	134.50	17	1
18	2	25.25	147.70	18	2
19	2	23.47	135.50	19	2
20	1	23.72	138.80	20	1
21	1	24.40	142.80	21	1
22	1	25.02	147.30	22	1
23	1	25.96	153.70	23	1
24	1	26.93	160.70	24	1
91	2	16.45	96.80	1	2
92	2	16.51	96.40	2	2
8	2	18.57	109.10	3	2
7	2	20.99	122.10	4	2
1	2	25.35	149.40	6	2
5	2	27.21	159.90	7	2
3	2	31.62	187.00	9	2
2	2	33.63	201.00	10	2
11	2	18.04	105.50	11	2
12	2	18.42	106.40	12	2
13	2	19.17	113.40	13	2
17	2	20.06	118.20	14	2
14	2	21.33	124.10	15	2
16	2	23.82	139.90	17	2
20	2	23.50	134.40	20	2
21	2	23.14	133.10	21	2
22	2	23.23	133.90	22	2
23	2	23.35	135.60	23	2
24	2	23.79	138.30	24	2
1	3	10.22	56.80	6	3
5	3	11.94	67.20	7	3
4	3	14.28	80.80	8	3
3	3	16.60	94.40	9	3
2	3	18.75	108.30	10	3
16	3	11.24	63.20	17	3
18	3	13.36	76.80	18	3
19	3	12.25	68.80	19	3
20	3	13.70	75.70	20	3
21	3	15.27	82.80	21	3
22	3	16.63	92.70	22	3

DATA SET 2039 (CONTINUED)

23	3	18.29	103.70	23	3
24	3	19.60	114.40	24	3
91	4	23.06	133.30	1	4
92	4	23.24	133.00	2	4
8	4	22.86	129.20	3	4
6	4	25.16	141.80	5	4
1	4	26.60	150.30	6	4
5	4	27.88	157.50	7	4
4	4	29.21	166.70	8	4
3	4	30.62	176.50	9	4
2	4	32.25	187.70	10	4
11	4	18.74	104.80	11	4
12	4	20.63	117.00	12	4
13	4	25.41	141.10	13	4
17	4	27.17	154.40	14	4
14	4	29.43	166.60	15	4
15	4	31.18	178.60	16	4
16	4	33.00	191.60	17	4
19	4	33.68	196.90	19	4
20	4	33.81	202.60	20	4
22	4	35.53	215.10	22	4
23	4	36.90	222.90	23	4

SOLUTION FOR DATA SET 2039

V= 6.302 SD V= 7.292@ -2
1/V= 0.1587 SD 1/V= 1.836@ -3

SUM OF SQUARED RESIDUALS= 5.996@ 0

SD OF T= 3.534@ -1

SUMDIJX2= 37043.174

LOCATION	TIME TERMS		SD OF TT
91	25.534-	148.980/V 1.892	0.413
92	25.654-	148.880/V 2.028	0.413
8	26.338-	151.780/V 2.251	0.413
7	28.726-	166.670/V 2.277	0.444
6	27.451-	157.605/V 2.440	0.436
1	27.972-	161.335/V 2.370	0.402
5	29.052-	167.385/V 2.490	0.402
4	28.790-	165.837/V 2.473	0.414
3	31.870-	184.435/V 2.602	0.402
2	33.215-	193.760/V 2.467	0.402
11	26.144-	150.413/V 2.275	0.413
12	26.248-	150.746/V 2.325	0.413
13	26.931-	153.413/V 2.586	0.413
17	27.061-	155.380/V 2.403	0.413
14	27.648-	157.780/V 2.609	0.413
15	28.026-	159.355/V 2.738	0.436
16	27.907-	161.085/V 2.345	0.402
18	29.709-	172.615/V 2.317	0.446
19	30.069-	173.977/V 2.461	0.414
20	28.862-	166.660/V 2.415	0.402
21	27.843-	157.947/V 2.779	0.420
22	30.282-	176.035/V 2.347	0.402
23	31.305-	182.760/V 2.303	0.402
24	30.347-	176.180/V 2.388	0.420
1	0.088-	5.590/V -0.799	0.371
2	-5.801-	-31.929/V -0.734	0.372
3	-15.007-	-88.801/V -0.915	0.379
4	0.000-	0.000/V 0.000	0.353

SOLUTION FOR DATA SET 2039 (CONTINUED)

		CIJ	DIJ	DIJX2	DELIJ
91	1	5.757	35.930	1290.982	0.056
92	1	5.757	36.430	1327.162	-0.024
8	1	5.444	33.330	1110.905	0.155
7	1	1.935	12.640	159.779	-0.071
6	1	2.291	15.805	249.798	-0.217
1	1	0.939	6.775	45.900	-0.136
5	1	-0.681	-3.175	10.081	-0.177
4	1	-0.918	-4.627	21.409	-0.184
3	1	-4.038	-25.325	641.357	-0.019
2	1	-5.793	-36.450	1328.605	-0.009
11	1	9.707	58.597	3433.597	0.409
12	1	7.644	46.164	2131.075	0.318
13	1	3.481	20.397	416.034	0.244
17	1	1.091	6.230	38.816	0.102
14	1	-1.266	-7.070	49.982	-0.144
15	1	-3.154	-19.245	370.370	-0.100
16	1	-5.146	-32.175	1035.232	-0.040
18	2	1.342	7.014	49.199	0.229
19	2	-0.799	-6.547	42.869	0.241
20	1	-5.231	-33.450	1118.904	0.077
21	1	-3.532	-20.737	430.011	-0.241
22	1	-5.351	-34.325	1178.208	0.096
23	1	-5.433	-34.650	1200.624	0.065
24	1	-3.505	-21.070	443.946	-0.161
91	2	-3.283	-20.250	410.082	-0.070
92	2	-3.343	-20.550	422.323	-0.082
8	2	-1.967	-10.750	115.573	-0.261
7	2	-1.935	-12.640	159.779	0.071
1	2	3.178	19.994	399.770	0.006
5	2	3.958	24.444	597.521	0.079
3	2	5.551	34.494	1189.853	0.077
2	2	6.216	39.169	1534.230	0.000
11	2	-2.303	-12.984	168.580	-0.243
12	2	-2.027	-12.417	154.186	-0.056
13	2	-1.960	-8.084	65.348	-0.677
17	2	-1.200	-5.250	27.568	-0.367
14	2	-0.517	-1.750	3.064	-0.239
16	2	1.713	10.744	115.439	0.008
20	2	0.438	-0.331	0.109	0.491
21	2	1.098	7.083	50.163	-0.026
22	2	-1.252	-10.206	104.157	0.368
23	2	-2.154	-15.231	231.976	0.263
24	2	-0.756	-5.951	35.411	0.189
1	3	-2.745	-15.734	247.565	-0.248
5	3	-2.105	-11.384	129.600	-0.299
4	3	0.498	3.764	14.167	-0.100
3	3	-0.263	-1.234	1.523	-0.067
2	3	0.542	3.341	11.161	0.012
16	3	-1.660	-9.084	82.523	-0.219
18	3	-1.342	-7.014	49.199	-0.229
19	3	-2.812	-16.376	268.170	-0.213
20	3	-0.155	-2.159	4.662	0.188
21	3	2.434	13.654	186.435	0.267
22	3	1.355	5.466	29.875	0.487

SOLUTION FOR DATA SET 2039 (CONTINUED)

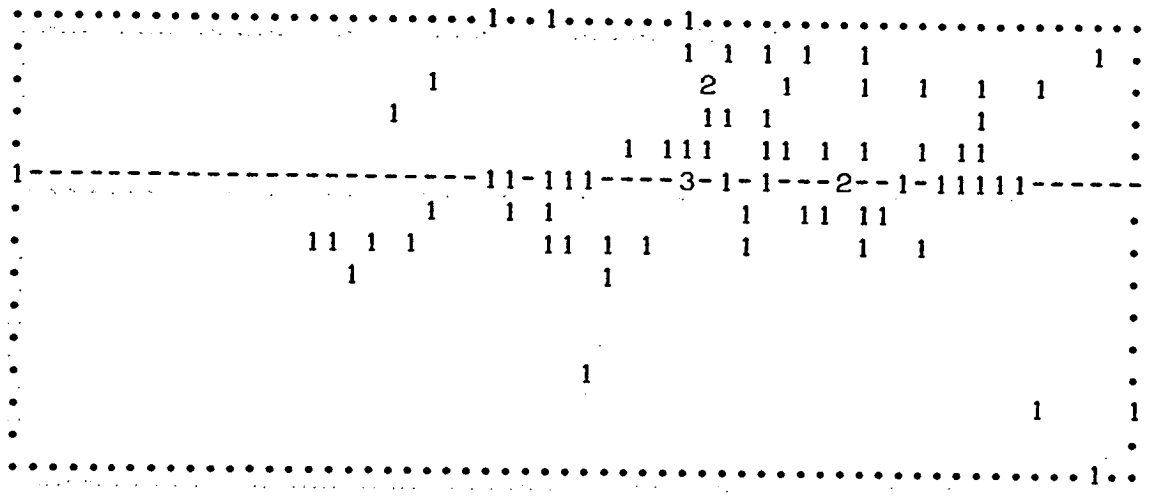
23	3	1.992	9.741	94.883	0.447
24	3	4.261	27.021	730.123	-0.027
91	4	-2.474	-15.680	245.854	0.014
92	4	-2.414	-15.880	252.166	0.106
8	4	-3.478	-22.580	509.845	0.106
6	4	-2.291	-15.805	249.798	0.217
1	4	-1.372	-11.035	121.771	0.379
5	4	-1.172	-9.885	97.713	0.396
4	4	0.420	0.863	0.745	0.283
3	4	-1.250	-7.935	62.964	0.009
2	4	-0.965	-6.060	36.724	-0.003
11	4	-7.404	-45.613	2080.553	-0.166
12	4	-5.618	-33.746	1138.820	-0.262
13	4	-1.521	-12.313	151.612	0.433
17	4	0.109	-0.980	0.960	0.265
14	4	1.782	8.820	77.797	0.383
15	4	3.154	19.245	370.370	0.100
16	4	5.093	30.515	931.165	0.250
19	4	3.611	22.923	525.478	-0.027
20	4	4.948	35.940	1291.683	-0.756
22	4	5.248	39.065	1526.073	-0.952
23	4	5.595	40.140	1611.219	-0.775

LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
91	3	8.155@ -3	6.385@ -2	3.687@ -2	4.134@ -1
92	3	1.849@ -2	9.616@ -2	5.552@ -2	4.134@ -1
8	3	1.031@ -1	2.270@ -1	1.311@ -1	4.134@ -1
7	2	9.950@ -3	9.975@ -2	7.053@ -2	4.439@ -1
6	2	9.442@ -2	3.073@ -1	2.173@ -1	4.364@ -1
1	4	2.235@ -1	2.730@ -1	1.365@ -1	4.018@ -1
5	4	2.837@ -1	3.075@ -1	1.538@ -1	4.018@ -1
4	3	1.240@ -1	2.490@ -1	1.437@ -1	4.141@ -1
3	4	1.085@ -2	6.014@ -2	3.007@ -2	4.018@ -1
2	4	2.411@ -4	8.965@ -3	4.483@ -3	4.018@ -1
11	3	2.535@ -1	3.560@ -1	2.055@ -1	4.134@ -1
12	3	1.733@ -1	2.944@ -1	1.700@ -1	4.134@ -1
13	3	7.056@ -1	5.940@ -1	3.429@ -1	4.134@ -1
17	3	2.150@ -1	3.278@ -1	1.893@ -1	4.134@ -1
14	3	2.243@ -1	3.349@ -1	1.933@ -1	4.134@ -1
15	2	2.006@ -2	1.416@ -1	1.001@ -1	4.364@ -1
16	4	1.120@ -1	1.932@ -1	9.659@ -2	4.018@ -1
18	2	1.046@ -1	3.234@ -1	2.287@ -1	4.460@ -1
19	3	1.041@ -1	2.281@ -1	1.317@ -1	4.143@ -1
20	4	8.535@ -1	5.334@ -1	2.667@ -1	4.018@ -1
21	3	1.301@ -1	2.551@ -1	1.473@ -1	4.195@ -1
22	4	1.288@ 0	6.553@ -1	3.276@ -1	4.018@ -1
23	4	8.732@ -1	5.395@ -1	2.698@ -1	4.018@ -1
24	3	6.234@ -2	1.766@ -1	1.019@ -1	4.195@ -1
1	22	6.381@ -1	1.743@ -1	3.717@ -2	3.705@ -1
2	21	1.401@ 0	2.647@ -1	5.775@ -2	3.716@ -1
3	13	8.553@ -1	2.670@ -1	7.404@ -2	3.787@ -1
4	21	3.102@ 0	3.938@ -1	8.594@ -2	3.534@ -1

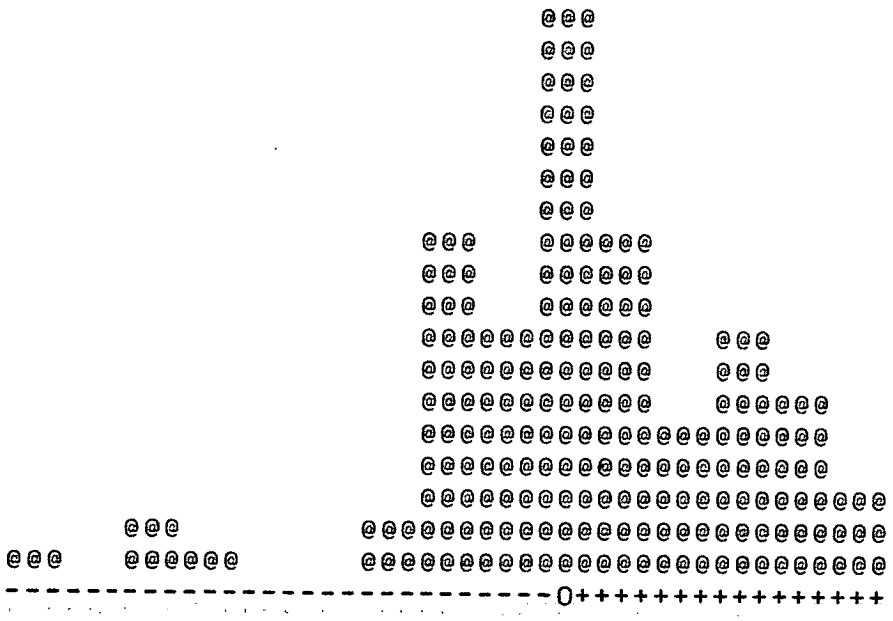
SOLUTION FOR DATA SET 2039 (CONTINUED)

LOCATION		DBAR	SDTV	1SDTV	2SDTV
91	3	140.20	2.575@ -1	4.870@ -1	2.601@ -1
92	3	140.10	2.573@ -1	4.869@ -1	2.632@ -1
8	3	143.00	2.626@ -1	4.897@ -1	2.935@ -1
7	2	153.50	2.819@ -1	5.259@ -1	2.906@ -1
6	2	160.40	2.946@ -1	5.265@ -1	3.660@ -1
1	4	132.55	2.434@ -1	4.698@ -1	2.791@ -1
5	4	138.60	2.545@ -1	4.756@ -1	2.974@ -1
4	3	138.10	2.536@ -1	4.856@ -1	2.915@ -1
3	4	155.65	2.858@ -1	4.931@ -1	2.874@ -1
2	4	164.98	3.030@ -1	5.032@ -1	3.030@ -1
11	3	141.63	2.601@ -1	4.884@ -1	3.315@ -1
12	3	141.97	2.607@ -1	4.887@ -1	3.112@ -1
13	3	144.63	2.656@ -1	4.913@ -1	4.338@ -1
17	3	146.60	2.692@ -1	4.933@ -1	3.291@ -1
14	3	149.00	2.736@ -1	4.957@ -1	3.350@ -1
15	2	162.15	2.978@ -1	5.283@ -1	3.142@ -1
16	4	132.30	2.430@ -1	4.696@ -1	2.614@ -1
18	2	112.25	2.061@ -1	4.913@ -1	3.079@ -1
19	3	133.73	2.456@ -1	4.817@ -1	2.787@ -1
20	4	137.87	2.532@ -1	4.749@ -1	3.677@ -1
21	3	119.57	2.196@ -1	4.735@ -1	2.644@ -1
22	4	147.25	2.704@ -1	4.843@ -1	4.248@ -1
23	4	153.97	2.828@ -1	4.913@ -1	3.908@ -1
24	3	137.80	2.531@ -1	4.899@ -1	2.728@ -1
1	22	168.97	3.103@ -1	4.833@ -1	3.125@ -1
2	21	132.75	2.438@ -1	4.444@ -1	2.505@ -1
3	13	83.51	1.534@ -1	4.086@ -1	1.703@ -1
4	21	155.60	2.857@ -1	4.545@ -1	2.984@ -1

DATA SET 2039 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 222.90
RANGE OF Y AXIS IS -0.952 TO 0.491



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.952 TO 0.491

DATA SET 2040

80	26	6	68	21	4
9	1	29.96	190.50	1	1
9	1	30.16	190.90	1	1
8	1	29.99	190.70	2	1
7	1	30.05	184.90	3	1
6	1	28.70	179.00	4	1
1	1	28.21	173.70	5	1
4	1	26.97	166.80	6	1
3	1	27.17	164.70	7	1
2	1	26.74	162.90	8	1
13	1	28.88	179.40	9	1
17	1	27.70	167.20	10	1
14	1	26.14	156.30	11	1
15	1	24.33	145.70	12	1
16	1	22.32	134.50	13	1
18	1	21.36	124.90	14	1
19	1	23.12	136.90	15	1
20	1	23.26	138.80	16	1
21	1	23.73	142.80	17	1
22	1	24.42	147.30	18	1
23	1	25.41	153.70	19	1
24	1	26.07	160.70	20	1
7	2	21.57	122.10	3	2
6	2	22.96	135.30	4	2
1	2	25.11	149.40	5	2
5	2	26.64	159.90	21	2
4	2	28.18	173.50	6	2
3	2	30.40	187.00	7	2
2	2	32.24	201.00	8	2
14	2	22.00	124.10	11	2
15	2	22.51	131.10	12	2
16	2	23.27	139.90	13	2
18	2	24.75	147.70	14	2
19	2	23.04	135.50	15	2
20	2	23.00	134.40	16	2
21	2	22.69	133.10	17	2
22	2	22.91	133.90	18	2
23	2	22.88	135.60	19	2
24	2	23.20	138.30	20	2
5	3	14.54	67.20	21	3
4	3	15.95	80.80	6	3
3	3	18.20	94.40	7	3
2	3	20.01	108.30	8	3
18	3	15.45	76.80	14	3
19	3	14.31	68.80	15	3
20	3	15.47	75.70	16	3
22	3	17.74	92.70	18	3
24	3	20.62	114.40	20	3
9	4	22.49	133.30	1	4
9	4	22.41	133.00	1	4
8	4	21.95	129.20	2	4
7	4	23.44	134.50	3	4
6	4	23.98	141.80	4	4
1	4	25.32	150.30	5	4

DATA SET 2040 (CONTINUED)

5	4	26.66	157.50	21	4
4	4	27.49	166.70	6	4
3	4	29.37	176.50	7	4
2	4	30.56	187.70	8	4
13	4	24.28	141.10	9	4
17	4	26.19	154.40	10	4
14	4	28.05	166.60	11	4
15	4	29.23	178.60	12	4
16	4	30.61	191.60	13	4
18	4	32.64	205.30	14	4
19	4	31.59	196.90	15	4
20	4	32.55	202.60	16	4
22	4	34.36	215.10	18	4
23	4	35.19	222.90	19	4
24	4	36.11	230.70	20	4

SOLUTION FOR DATA SET 2040

V= 7.268 SD V= 2.470@ -2
1/V= 0.1376 SD 1/V= 4.676@ -4

SUM OF SQUARED RESIDUALS= 2.871@ -1

SD OF T= 8.171@ -2

SUMDIJX2= 30527.822

LOCATION	TIME TERMS			SD OF TT
9	27.155-	166.981/V	4.180	0.092
8	26.870-	165.006/V	4.166	0.101
7	26.927-	159.575/V	4.971	0.096
6	27.121-	164.442/V	4.495	0.096
1	28.121-	170.209/V	4.702	0.096
4	29.186-	179.488/V	4.490	0.093
3	30.824-	188.188/V	4.931	0.093
2	31.926-	197.513/V	4.750	0.093
13	27.480-	165.306/V	4.735	0.101
17	27.845-	165.856/V	5.024	0.101
14	27.304-	161.409/V	5.096	0.096
15	27.264-	164.209/V	4.670	0.096
16	27.307-	167.742/V	4.228	0.096
18	28.089-	171.213/V	4.531	0.093
19	27.554-	167.063/V	4.567	0.093
20	28.109-	170.413/V	4.662	0.093
21	26.071-	156.563/V	4.529	0.103
22	29.396-	179.788/V	4.659	0.093
23	29.734-	183.142/V	4.535	0.096
24	31.039-	193.563/V	4.406	0.093
5	28.065-	168.214/V	4.921	0.096
1	-1.799-	-10.112/V	-0.408	0.086
2	-3.923-	-27.114/V	-0.192	0.086
3	-12.433-	-92.927/V	0.353	0.089
4	0.000-	0.000/V	0.000	0.082

		CIJ	DIJ	DIJX2	DELIJ
9	1	4.605	33.631	1131.040	-0.023
9	1	4.805	34.031	1158.104	0.122
8	1	4.920	35.806	1282.065	-0.007
7	1	4.922	35.437	1255.758	0.046
6	1	3.379	24.670	608.609	-0.016
1	1	1.889	13.603	185.051	0.017
4	1	-0.417	-2.576	6.637	-0.063
3	1	-1.855	-13.376	178.926	-0.014
2	1	-3.387	-24.501	600.314	-0.016
13	1	3.200	24.206	585.927	-0.131
17	1	1.655	11.456	131.238	0.078
14	1	0.635	5.003	25.033	-0.053
15	1	-1.135	-8.397	70.504	0.021

SOLUTION FOR DATA SET 2040 (CONTINUED)

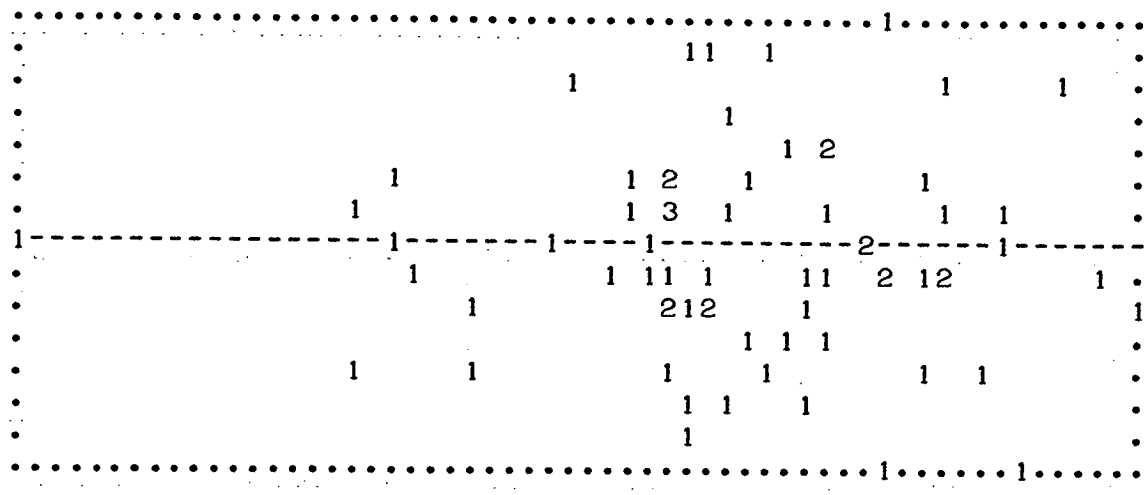
16	1	-3.188	-23.130	534.997	-0.006
18	1	-4.930	-36.201	1310.535	0.051
19	1	-2.635	-20.051	402.055	0.124
20	1	-3.050	-21.501	462.306	-0.091
21	1	-0.542	-3.651	13.329	-0.039
22	1	-3.177	-22.376	500.699	-0.098
23	1	-2.525	-19.330	373.649	0.135
24	1	-3.170	-22.751	517.622	-0.039
7	2	-1.435	-10.361	107.360	-0.009
6	2	-0.238	-2.028	4.113	0.041
1	2	0.912	6.305	39.755	0.045
5	2	2.497	18.800	353.444	-0.089
4	2	2.916	21.126	446.288	0.010
3	2	3.499	25.926	672.134	-0.068
2	2	4.236	30.601	936.393	0.026
14	2	-1.381	-10.195	103.934	0.021
15	2	-0.831	-5.995	35.938	-0.006
16	2	-0.115	-0.728	0.530	-0.014
18	2	0.584	3.601	12.964	0.089
19	2	-0.591	-4.449	19.798	0.021
20	2	-1.186	-8.899	79.200	0.038
21	2	0.542	3.651	13.329	0.039
22	2	-2.564	-18.774	352.480	0.020
23	2	-2.931	-20.428	417.309	-0.121
24	2	-3.916	-28.149	792.392	-0.043
5	3	-1.092	-8.086	65.391	0.020
4	3	-0.803	-5.761	33.190	-0.010
3	3	-0.191	-0.861	0.741	-0.072
2	3	0.517	3.714	13.793	0.006
18	3	-0.206	-1.486	2.208	-0.001
19	3	-0.811	-5.336	28.474	-0.076
20	3	-0.206	-1.786	3.190	0.040
22	3	0.777	5.839	34.093	-0.027
24	3	2.014	13.764	189.446	0.121
9	4	-4.665	-33.681	1134.405	-0.030
9	4	-4.745	-33.981	1154.704	-0.069
8	4	-4.920	-35.806	1282.065	0.007
7	4	-3.487	-25.075	628.765	-0.037
6	4	-3.141	-22.642	512.654	-0.025
1	4	-2.801	-19.909	396.349	-0.061
5	4	-1.405	-10.714	114.781	0.069
4	4	-1.696	-12.788	163.537	0.063
3	4	-1.454	-11.688	136.613	0.154
2	4	-1.366	-9.813	96.298	-0.016
13	4	-3.200	-24.206	585.927	0.131
17	4	-1.655	-11.456	131.238	-0.078
14	4	0.746	5.191	26.951	0.032
15	4	1.966	14.391	207.115	-0.014
16	4	3.303	23.858	569.211	0.020
18	4	4.551	34.087	1161.912	-0.139
19	4	4.036	29.837	890.236	-0.069
20	4	4.441	32.187	1035.992	0.013
22	4	4.964	35.312	1246.925	0.105
23	4	5.456	39.758	1580.710	-0.014
24	4	5.071	37.137	1379.144	-0.039

SOLUTION FOR DATA SET 2040 (CONTINUED)

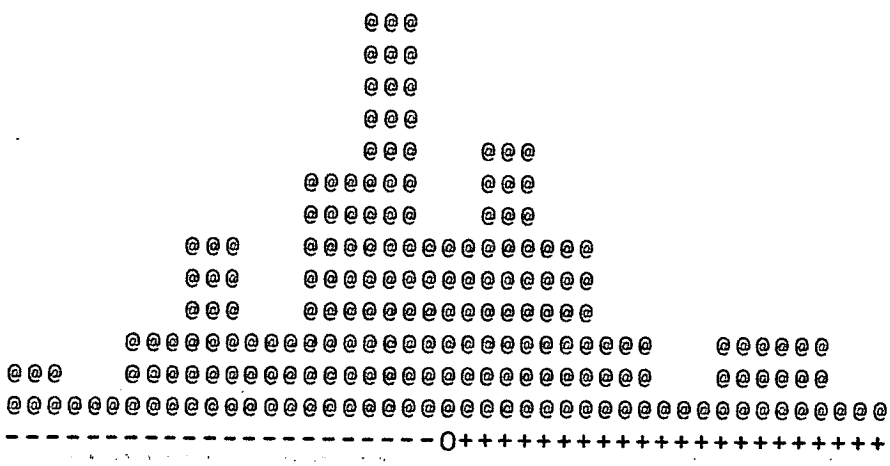
LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
9	4	2.119@ -2	8.404@ -2	4.202@ -2	9.223@ -2
8	2	9.559@ -5	9.777@ -3	6.913@ -3	1.009@ -1
7	3	3.600@ -3	4.243@ -2	2.449@ -2	9.556@ -2
6	3	2.587@ -3	3.596@ -2	2.076@ -2	9.556@ -2
1	3	6.051@ -3	5.501@ -2	3.176@ -2	9.556@ -2
4	4	8.112@ -3	5.200@ -2	2.600@ -2	9.293@ -2
3	4	3.388@ -2	1.063@ -1	5.313@ -2	9.293@ -2
2	4	1.227@ -3	2.023@ -2	1.011@ -2	9.293@ -2
13	2	3.425@ -2	1.851@ -1	1.309@ -1	1.009@ -1
17	2	1.230@ -2	1.109@ -1	7.843@ -2	1.009@ -1
14	3	4.287@ -3	4.630@ -2	2.673@ -2	9.556@ -2
15	3	6.657@ -4	1.824@ -2	1.053@ -2	9.556@ -2
16	3	6.362@ -4	1.784@ -2	1.030@ -2	9.556@ -2
18	4	2.978@ -2	9.963@ -2	4.982@ -2	9.293@ -2
19	4	2.654@ -2	9.406@ -2	4.703@ -2	9.293@ -2
20	4	1.155@ -2	6.204@ -2	3.102@ -2	9.293@ -2
21	2	3.106@ -3	5.573@ -2	3.941@ -2	1.026@ -1
22	4	2.178@ -2	8.521@ -2	4.261@ -2	9.293@ -2
23	3	3.293@ -2	1.283@ -1	7.408@ -2	9.556@ -2
24	4	1.938@ -2	8.038@ -2	4.019@ -2	9.293@ -2
5	3	1.311@ -2	8.097@ -2	4.675@ -2	9.594@ -2
1	21	1.065@ -1	7.296@ -2	1.592@ -2	8.559@ -2
2	17	4.593@ -2	5.358@ -2	1.299@ -2	8.629@ -2
3	9	2.847@ -2	5.965@ -2	1.988@ -2	8.887@ -2
4	22	1.062@ -1	7.112@ -2	1.516@ -2	8.171@ -2

LOCATION		DBAR	SDTV	1SDTV	2SDTV
9	4	161.93	7.572@ -2	1.193@ -1	8.660@ -2
8	2	159.95	7.480@ -2	1.256@ -1	7.512@ -2
7	3	147.17	6.882@ -2	1.178@ -1	7.305@ -2
6	3	152.03	7.110@ -2	1.191@ -1	7.407@ -2
1	3	157.80	7.379@ -2	1.207@ -1	8.034@ -2
4	4	146.95	6.872@ -2	1.156@ -1	7.347@ -2
3	4	155.65	7.279@ -2	1.180@ -1	9.012@ -2
2	4	164.98	7.715@ -2	1.208@ -1	7.781@ -2
13	2	160.25	7.494@ -2	1.257@ -1	1.508@ -1
17	2	160.80	7.520@ -2	1.258@ -1	1.087@ -1
14	3	149.00	6.968@ -2	1.183@ -1	7.463@ -2
15	3	151.80	7.099@ -2	1.190@ -1	7.176@ -2
16	3	155.33	7.264@ -2	1.200@ -1	7.337@ -2
18	4	138.68	6.485@ -2	1.133@ -1	8.178@ -2
19	4	134.52	6.291@ -2	1.122@ -1	7.855@ -2
20	4	137.87	6.448@ -2	1.131@ -1	7.155@ -2
21	2	137.95	6.451@ -2	1.212@ -1	7.560@ -2
22	4	147.25	6.886@ -2	1.157@ -1	8.097@ -2
23	3	170.73	7.984@ -2	1.245@ -1	1.089@ -1
24	4	161.03	7.530@ -2	1.196@ -1	8.536@ -2
5	3	128.20	5.995@ -2	1.131@ -1	7.602@ -2
1	21	161.54	7.554@ -2	1.142@ -1	7.720@ -2
2	17	145.99	6.827@ -2	1.100@ -1	6.950@ -2
3	9	86.57	4.048@ -2	9.766@ -2	4.510@ -2
4	22	164.38	7.687@ -2	1.122@ -1	7.835@ -2

DATA SET 2040 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 230.70
RANGE OF Y AXIS IS -0.139 TO 0.154



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.139 TO 0.154

DATA SET 2043

80	26	6	71	22	4
9	1	29.96	190.50	1	1
9	1	30.16	190.90	1	1
8	1	29.99	190.70	2	1
7	1	30.05	184.90	3	1
6	1	28.70	179.00	4	1
1	1	28.21	173.70	5	1
4	1	26.97	166.80	6	1
3	1	27.17	164.70	7	1
2	1	26.74	162.90	8	1
13	1	28.88	179.40	9	1
17	1	27.70	167.20	10	1
14	1	26.14	156.30	11	1
15	1	24.33	145.70	12	1
16	1	22.32	134.50	13	1
18	1	21.36	124.90	14	1
19	1	23.12	136.90	15	1
20	1	23.26	138.80	16	1
21	1	23.73	142.80	17	1
22	1	24.42	147.30	18	1
23	1	25.41	153.70	19	1
24	1	26.07	160.70	20	1
7	2	21.57	122.10	3	2
6	2	22.96	135.30	4	2
1	2	25.11	149.40	5	2
5	2	26.64	159.90	21	2
4	2	28.18	173.50	6	2
3	2	30.40	187.00	7	2
2	2	32.24	201.00	8	2
14	2	22.00	124.10	11	2
15	2	22.51	131.10	12	2
16	2	23.27	139.90	13	2
18	2	24.75	147.70	14	2
19	2	23.04	135.50	15	2
20	2	23.00	134.40	16	2
21	2	22.69	133.10	17	2
22	2	22.91	133.90	18	2
23	2	22.88	135.60	19	2
24	2	23.20	138.30	20	2
5	3	14.54	67.20	21	3
4	3	15.95	80.80	6	3
3	3	18.20	94.40	7	3
2	3	20.01	108.30	8	3
18	3	15.45	76.80	14	3
19	3	14.31	68.80	15	3
20	3	15.47	75.70	16	3
22	3	17.74	92.70	18	3
24	3	20.62	114.40	20	3
9	4	22.49	133.30	1	4
9	4	22.41	133.00	1	4
8	4	21.95	129.20	2	4
7	4	23.44	134.50	3	4
6	4	23.98	141.80	4	4
1	4	25.32	150.30	5	4

DATA SET 2043 (CONTINUED)

5	4	26.66	157.50	21	4
4	4	27.49	166.70	6	4
3	4	29.37	176.50	7	4
2	4	30.56	187.70	8	4
13	4	24.28	141.10	9	4
17	4	26.19	154.40	10	4
14	4	28.05	166.60	11	4
15	4	29.23	178.60	12	4
16	4	30.61	191.60	13	4
18	4	32.64	205.30	14	4
19	4	31.59	196.90	15	4
20	4	32.55	202.60	16	4
22	4	34.36	215.10	18	4
23	4	35.19	222.90	19	4
24	4	36.11	230.70	20	4
12	1	32.10	202.50	22	1
12	2	19.10	106.40	22	2
12	4	20.92	117.00	22	4

SOLUTION FOR DATA SET 2043

V= 7.277 SD V= 2.313@ -2
1/V= 0.1374 SD 1/V= 4.368@ -4

SUM OF SQUARED RESIDUALS= 3.048@ -1

SD OF T= 8.230@ -2

SUMDIJX2= 35502.726

LOCATION	TIME TERMS			SD OF TT
9	26.854-	164.767/V	4.213	0.093
8	26.569-	162.792/V	4.200	0.102
7	26.710-	157.953/V	5.005	0.096
6	26.903-	162.820/V	4.530	0.096
1	27.903-	168.587/V	4.738	0.096
4	28.974-	177.902/V	4.528	0.094
3	30.611-	186.602/V	4.970	0.094
2	31.714-	195.927/V	4.791	0.094
13	27.179-	163.092/V	4.769	0.102
17	27.544-	163.642/V	5.058	0.102
14	27.087-	159.787/V	5.130	0.096
15	27.047-	162.587/V	4.705	0.096
16	27.090-	166.120/V	4.263	0.096
18	27.876-	169.627/V	4.568	0.094
19	27.341-	165.477/V	4.603	0.094
20	27.896-	168.827/V	4.698	0.094
21	25.745-	154.130/V	4.566	0.103
22	29.184-	178.202/V	4.697	0.094
23	29.517-	181.520/V	4.574	0.096
24	30.826-	191.977/V	4.447	0.094
5	27.982-	167.574/V	4.956	0.097
12	25.730-	152.753/V	4.740	0.096
1	-1.198-	-5.684/V	-0.417	0.086
2	-3.871-	-26.676/V	-0.206	0.087
3	-12.235-	-91.446/V	0.331	0.089
4	0.000-	0.000/V	0.000	0.082

		CIJ	DIJ	DIJX2	DELIJ
9	1	4.304	31.417	987.040	-0.013
9	1	4.504	31.817	1012.333	0.132
8	1	4.619	33.592	1128.435	0.003
7	1	4.538	32.631	1064.775	0.055
6	1	2.995	21.864	478.044	-0.009
1	1	1.505	10.798	116.587	0.021
4	1	-0.805	-5.417	29.346	-0.061
3	1	-2.243	-16.217	262.996	-0.014
2	1	-3.775	-27.342	747.594	-0.018
13	1	2.899	21.992	483.656	-0.123
17	1	1.354	9.242	85.418	0.084
14	1	0.252	2.198	4.829	-0.050
15	1	-1.518	-11.202	125.495	0.021

SOLUTION FOR DATA SET 2043 (CONTINUED)

16	1	-3.572	-25.936	672.664	-0.008
18	1	-5.318	-39.042	1524.290	0.047
19	1	-3.023	-22.892	524.051	0.123
20	1	-3.438	-24.342	592.541	-0.093
21	1	-0.817	-5.646	31.876	-0.041
22	1	-3.565	-25.217	635.905	-0.100
23	1	-2.908	-22.136	489.992	0.133
24	1	-3.558	-25.592	654.958	-0.041
7	2	-1.269	-9.177	84.225	-0.007
6	2	-0.072	-0.844	0.712	0.044
1	2	1.078	7.489	56.089	0.049
5	2	2.529	19.002	361.082	-0.082
4	2	3.078	22.275	496.155	0.017
3	2	3.660	27.075	733.031	-0.060
2	2	4.398	31.750	1008.033	0.035
14	2	-1.215	-9.011	81.194	0.023
15	2	-0.665	-4.811	23.143	-0.004
16	2	0.051	0.456	0.208	-0.011
18	2	0.745	4.750	22.558	0.093
19	2	-0.430	-3.300	10.893	0.024
20	2	-1.025	-7.750	60.070	0.040
21	2	0.817	5.646	31.876	0.041
22	2	-2.402	-17.625	310.657	0.020
23	2	-2.765	-19.244	370.335	-0.121
24	2	-3.755	-27.000	729.025	-0.045
5	3	-1.207	-8.928	79.713	0.020
4	3	-0.789	-5.656	31.989	-0.012
3	3	-0.176	-0.756	0.571	-0.072
2	3	0.531	3.819	14.586	0.006
18	3	-0.191	-1.381	1.907	-0.002
19	3	-0.796	-5.231	27.362	-0.078
20	3	-0.191	-1.681	2.825	0.040
22	3	0.791	5.944	35.333	-0.026
24	3	2.029	13.869	192.353	0.123
9	4	-4.364	-31.467	990.184	-0.040
9	4	-4.444	-31.767	1009.154	-0.079
8	4	-4.619	-33.592	1128.435	-0.003
7	4	-3.270	-23.453	550.066	-0.047
6	4	-2.923	-21.020	441.847	-0.035
1	4	-2.583	-18.287	334.408	-0.070
5	4	-1.322	-10.074	101.484	0.062
4	4	-1.484	-11.202	125.474	0.056
3	4	-1.241	-10.102	102.041	0.147
2	4	-1.154	-8.227	67.676	-0.023
13	4	-2.899	-21.992	483.656	0.123
17	4	-1.354	-9.242	85.418	-0.084
14	4	0.963	6.813	46.419	0.027
15	4	2.183	16.013	256.422	-0.017
16	4	3.520	25.480	649.223	0.019
18	4	4.764	35.673	1272.596	-0.138
19	4	4.249	31.423	987.434	-0.069
20	4	4.654	33.773	1140.647	0.013
22	4	5.176	36.898	1361.497	0.106
23	4	5.673	41.380	1712.292	-0.013
24	4	5.284	38.723	1499.507	-0.037
12	1	7.568	55.431	3072.584	-0.048
12	2	-2.759	-19.677	387.201	-0.055
12	4	-4.810	-35.753	1278.312	0.103

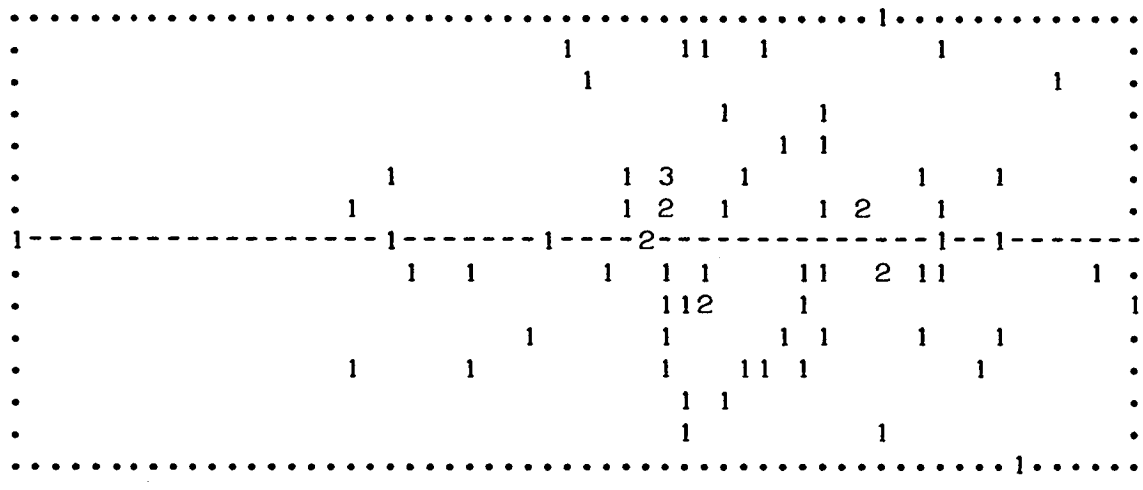
SOLUTION FOR DATA SET 2043 (CONTINUED)

LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
9	4	2.549@ -2	9.219@ -2	4.609@ -2	9.287@ -2
8	2	2.112@ -5	4.596@ -3	3.250@ -3	1.016@ -1
7	3	5.260@ -3	5.129@ -2	2.961@ -2	9.620@ -2
6	3	3.245@ -3	4.028@ -2	2.326@ -2	9.620@ -2
1	3	7.821@ -3	6.253@ -2	3.610@ -2	9.620@ -2
4	4	7.226@ -3	4.908@ -2	2.454@ -2	9.354@ -2
3	4	3.065@ -2	1.011@ -1	5.054@ -2	9.354@ -2
2	4	2.138@ -3	2.670@ -2	1.335@ -2	9.354@ -2
13	2	3.016@ -2	1.737@ -1	1.228@ -1	1.016@ -1
17	2	1.417@ -2	1.191@ -1	8.418@ -2	1.016@ -1
14	3	3.790@ -3	4.353@ -2	2.513@ -2	9.620@ -2
15	3	7.483@ -4	1.934@ -2	1.117@ -2	9.620@ -2
16	3	5.436@ -4	1.649@ -2	9.518@ -3	9.620@ -2
18	4	2.983@ -2	9.971@ -2	4.986@ -2	9.354@ -2
19	4	2.642@ -2	9.384@ -2	4.692@ -2	9.354@ -2
20	4	1.200@ -2	6.325@ -2	3.163@ -2	9.354@ -2
21	2	3.316@ -3	5.758@ -2	4.072@ -2	1.032@ -1
22	4	2.235@ -2	8.632@ -2	4.316@ -2	9.354@ -2
23	3	3.258@ -2	1.276@ -1	7.368@ -2	9.620@ -2
24	4	2.019@ -2	8.203@ -2	4.101@ -2	9.354@ -2
5	3	1.095@ -2	7.398@ -2	4.271@ -2	9.659@ -2
12	3	1.594@ -2	8.926@ -2	5.154@ -2	9.620@ -2
1	22	1.101@ -1	7.240@ -2	1.544@ -2	8.603@ -2
2	18	4.928@ -2	5.384@ -2	1.269@ -2	8.667@ -2
3	9	2.916@ -2	6.038@ -2	2.013@ -2	8.946@ -2
4	23	1.163@ -1	7.271@ -2	1.516@ -2	8.230@ -2

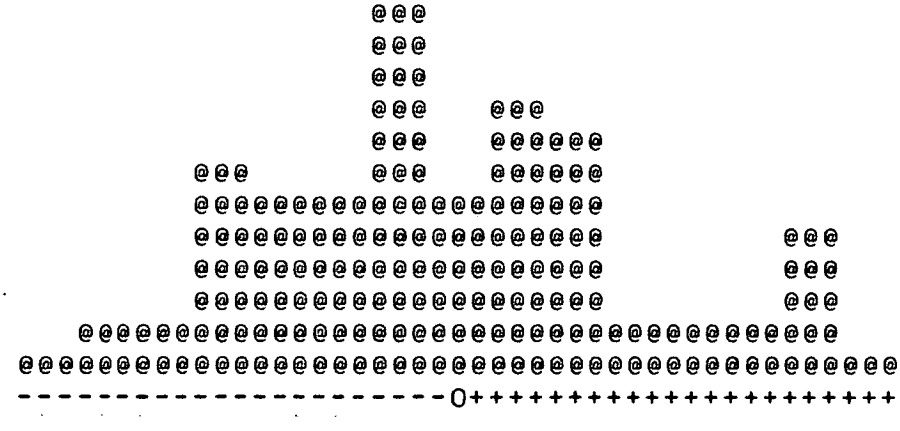
SOLUTION FOR DATA SET 2043 (CONTINUED)

LOCATION		DBAR	SDTV	1SDTV	2SDTV
9	4	161.93	7.073@ -2	1.167@ -1	8.442@ -2
8	2	159.95	6.987@ -2	1.233@ -1	6.994@ -2
7	3	147.17	6.428@ -2	1.157@ -1	7.078@ -2
6	3	152.03	6.641@ -2	1.169@ -1	7.036@ -2
1	3	157.80	6.893@ -2	1.183@ -1	7.781@ -2
4	4	146.95	6.419@ -2	1.134@ -1	6.872@ -2
3	4	155.65	6.799@ -2	1.156@ -1	8.472@ -2
2	4	164.98	7.206@ -2	1.181@ -1	7.329@ -2
13	2	160.25	7.000@ -2	1.234@ -1	1.413@ -1
17	2	160.80	7.024@ -2	1.235@ -1	1.096@ -1
14	3	149.00	6.508@ -2	1.161@ -1	6.977@ -2
15	3	151.80	6.631@ -2	1.168@ -1	6.724@ -2
16	3	155.33	6.785@ -2	1.177@ -1	6.852@ -2
18	4	138.68	6.057@ -2	1.114@ -1	7.845@ -2
19	4	134.52	5.876@ -2	1.105@ -1	7.519@ -2
20	4	137.87	6.023@ -2	1.113@ -1	6.802@ -2
21	2	137.95	6.026@ -2	1.195@ -1	7.273@ -2
22	4	147.25	6.432@ -2	1.135@ -1	7.746@ -2
23	3	170.73	7.458@ -2	1.217@ -1	1.048@ -1
24	4	161.03	7.034@ -2	1.170@ -1	8.142@ -2
5	3	128.20	5.600@ -2	1.116@ -1	7.043@ -2
12	3	141.97	6.201@ -2	1.145@ -1	8.063@ -2
1	22	163.40	7.137@ -2	1.118@ -1	7.302@ -2
2	18	143.79	6.281@ -2	1.070@ -1	6.408@ -2
3	9	86.57	3.781@ -2	9.712@ -2	4.284@ -2
4	23	162.32	7.090@ -2	1.086@ -1	7.250@ -2

DATA SET 2043 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 230.70
RANGE OF Y AXIS IS -0.138 TO 0.147



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.138 TO 0.147

DATA SET 2044

80	26	6	74	23	4
9	1	29.96	190.50	1	1
9	1	30.16	190.90	1	1
8	1	29.99	190.70	2	1
7	1	30.05	184.90	3	1
6	1	28.70	179.00	4	1
1	1	28.21	173.70	5	1
4	1	26.97	166.80	6	1
3	1	27.17	164.70	7	1
2	1	26.74	162.90	8	1
13	1	28.88	179.40	9	1
17	1	27.70	167.20	10	1
14	1	26.14	156.30	11	1
15	1	24.33	145.70	12	1
16	1	22.32	134.50	13	1
18	1	21.36	124.90	14	1
19	1	23.12	136.90	15	1
20	1	23.26	138.80	16	1
21	1	23.73	142.80	17	1
22	1	24.42	147.30	18	1
23	1	25.41	153.70	19	1
24	1	26.07	160.70	20	1
7	2	21.57	122.10	3	2
6	2	22.96	135.30	4	2
1	2	25.11	149.40	5	2
5	2	26.64	159.90	21	2
4	2	28.18	173.50	6	2
3	2	30.40	187.00	7	2
2	2	32.24	201.00	8	2
14	2	22.00	124.10	11	2
15	2	22.51	131.10	12	2
16	2	23.27	139.90	13	2
18	2	24.75	147.70	14	2
19	2	23.04	135.50	15	2
20	2	23.00	134.40	16	2
21	2	22.69	133.10	17	2
22	2	22.91	133.90	18	2
23	2	22.88	135.60	19	2
24	2	23.20	138.30	20	2
5	3	14.54	67.20	21	3
4	3	15.95	80.80	6	3
3	3	18.20	94.40	7	3
2	3	20.01	108.30	8	3
18	3	15.45	76.80	14	3
19	3	14.31	68.80	15	3
20	3	15.47	75.70	16	3
22	3	17.74	92.70	18	3
24	3	20.62	114.40	20	3

DATA SET 2044 (CONTINUED)

9	4	22.49	133.30	1	4
9	4	22.41	133.00	1	4
8	4	21.95	129.20	2	4
7	4	23.44	134.50	3	4
6	4	23.98	141.80	4	4
1	4	25.32	150.30	5	4
5	4	26.66	157.50	21	4
4	4	27.49	166.70	6	4
3	4	29.37	176.50	7	4
2	4	30.56	187.70	8	4
13	4	24.28	141.10	9	4
17	4	26.19	154.40	10	4
14	4	28.05	166.60	11	4
15	4	29.23	178.60	12	4
16	4	30.61	191.60	13	4
18	4	32.64	205.30	14	4
19	4	31.59	196.90	15	4
20	4	32.55	202.60	16	4
22	4	34.36	215.10	18	4
23	4	35.19	222.90	19	4
24	4	36.11	230.70	20	4
12	1	32.10	202.50	22	1
12	2	19.10	106.40	22	2
12	4	20.92	117.00	22	4
11	1	34.03	214.60	23	1
11	2	19.57	105.50	23	2
11	4	18.74	104.80	23	4

SOLUTION FOR DATA SET 2044

V= 7.250 SD V= 3.172@ -2
1/V= 0.1379 SD 1/V= 6.035@ -4

SUM OF SQUARED RESIDUALS= 7.268@ -1
SD OF T= 1.244@ -1

SUMDIJX2= 42457.630

LOCATION	TIME TERMS		SD OF TT
9	26.489-	162.211/V	4.115	0.140
8	26.204-	160.236/V	4.103	0.153
7	26.408-	155.940/V	4.899	0.145
6	26.601-	160.807/V	4.421	0.145
1	27.601-	166.574/V	4.626	0.145
4	28.677-	175.927/V	4.411	0.141
3	30.315-	184.627/V	4.849	0.141
2	31.417-	193.952/V	4.665	0.141
13	26.814-	160.536/V	4.671	0.153
17	27.179-	161.086/V	4.960	0.153
14	26.785-	157.774/V	5.023	0.145
15	26.745-	160.574/V	4.597	0.145
16	26.788-	164.107/V	4.153	0.145
18	27.580-	167.652/V	4.455	0.141
19	27.045-	163.502/V	4.493	0.141
20	27.600-	166.852/V	4.586	0.141
21	25.292-	151.111/V	4.449	0.156
22	28.887-	176.227/V	4.580	0.141
23	29.215-	179.507/V	4.455	0.145
24	30.530-	190.002/V	4.323	0.141
5	27.830-	166.646/V	4.845	0.146
12	25.428-	150.740/V	4.636	0.145
11	25.501-	150.407/V	4.756	0.145
1	-0.468-	-0.572/V	-0.389	0.130
2	-3.696-	-25.749/V	-0.145	0.131
3	-11.955-	-89.588/V	0.402	0.135
4	0.000-	0.000/V	0.000	0.124

		CIJ	DIJ	DIJX2	DELIJ
9	1	3.939	28.861	832.969	-0.042
9	1	4.139	29.261	856.218	0.103
8	1	4.254	31.036	963.246	-0.027
7	1	4.110	29.532	872.136	0.037
6	1	2.567	18.765	352.136	-0.021
1	1	1.077	7.699	59.269	0.015
4	1	-1.239	-8.555	73.185	-0.059
3	1	-2.676	-19.355	374.610	-0.007
2	1	-4.209	-30.480	929.020	-0.005
13	1	2.534	19.436	377.766	-0.147
17	1	0.989	6.686	44.705	0.067
14	1	-0.176	-0.901	0.812	-0.052
15	1	-1.946	-14.301	204.529	0.026
16	1	-4.000	-29.035	843.014	0.005
18	1	-5.751	-42.180	1779.138	0.067
19	1	-3.456	-26.030	677.552	0.134
20	1	-3.871	-27.480	755.141	-0.081

SOLUTION FOR DATA SET 2044 (CONTINUED)

21	1	-1.094	-7.738	59.881	-0.027
22	1	-3.999	-28.355	803.997	-0.088
23	1	-3.336	-25.235	636.791	0.144
24	1	-3.991	-28.730	825.403	-0.029
7	2	-1.142	-8.092	65.473	-0.026
6	2	0.055	0.242	0.058	0.021
1	2	1.205	8.575	73.533	0.022
5	2	2.506	19.003	361.130	-0.115
4	2	3.199	23.322	543.902	-0.018
3	2	3.781	28.122	790.830	-0.097
2	2	4.519	32.797	1075.623	-0.005
14	2	-1.089	-7.925	62.803	0.004
15	2	-0.539	-3.725	13.874	-0.025
16	2	0.178	1.542	2.377	-0.035
18	2	0.866	5.797	33.602	0.067
19	2	-0.309	-2.253	5.077	0.002
20	2	-0.904	-6.703	44.934	0.021
21	2	1.094	7.738	59.881	0.027
22	2	-2.281	-16.578	274.840	0.006
23	2	-2.639	-18.158	329.719	-0.134
24	2	-3.634	-25.953	673.574	-0.054
5	3	-1.336	-9.858	97.178	0.024
4	3	-0.773	-5.540	30.688	-0.009
3	3	-0.160	-0.640	0.409	-0.072
2	3	0.547	3.935	15.487	0.004
18	3	-0.175	-1.265	1.599	-0.001
19	3	-0.780	-5.115	26.160	-0.075
20	3	-0.175	-1.565	2.448	0.041
22	3	0.807	6.060	36.728	-0.029
24	3	2.045	13.985	195.590	0.116
9	4	-3.999	-28.911	835.857	-0.011
9	4	-4.079	-29.211	853.294	-0.050
8	4	-4.254	-31.036	963.246	0.027
7	4	-2.968	-21.440	459.693	-0.011
6	4	-2.621	-19.007	361.270	0.000
1	4	-2.281	-16.274	264.836	-0.037
5	4	-1.170	-9.146	83.640	0.091
4	4	-1.187	-9.227	85.142	0.085
3	4	-0.945	-8.127	66.052	0.176
2	4	-0.857	-6.252	39.090	0.005
13	4	-2.534	-19.436	377.766	0.147
17	4	-0.989	-6.686	44.705	-0.067
14	4	1.265	8.826	77.902	0.048
15	4	2.485	18.026	324.945	-0.001
16	4	3.822	27.493	755.859	0.030
18	4	5.060	37.648	1417.355	-0.133
19	4	4.545	33.398	1115.411	-0.061
20	4	4.950	35.748	1277.903	0.020
22	4	5.473	38.873	1511.092	0.111
23	4	5.975	43.393	1882.943	-0.010
24	4	5.580	40.698	1656.308	-0.033
12	1	7.140	52.332	2738.634	-0.078
12	2	-2.632	-18.592	345.644	-0.068
12	4	-4.508	-33.740	1138.417	0.146
11	1	8.997	64.765	4194.543	0.064
11	2	-2.235	-19.158	367.036	0.407
11	4	-6.761	-45.607	2080.008	-0.471

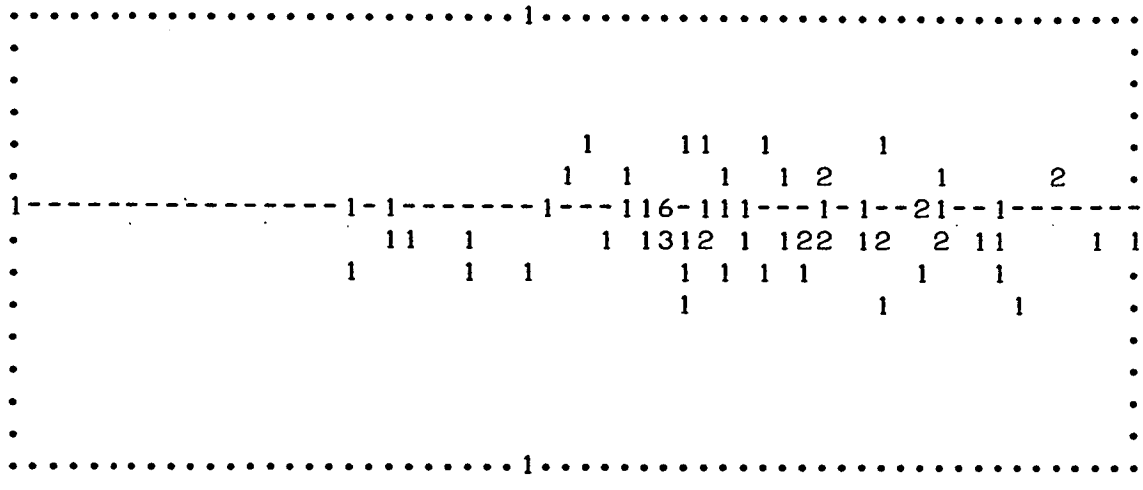
SOLUTION FOR DATA SET 2044 (CONTINUED)

LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
9	4	1.501@ -2	7.073@ -2	3.537@ -2	1.403@ -1
8	2	1.424@ -3	3.774@ -2	2.669@ -2	1.534@ -1
7	3	2.147@ -3	3.276@ -2	1.892@ -2	1.453@ -1
6	3	9.134@ -4	2.137@ -2	1.234@ -2	1.453@ -1
1	3	2.058@ -3	3.208@ -2	1.852@ -2	1.453@ -1
4	4	1.117@ -2	6.103@ -2	3.051@ -2	1.413@ -1
3	4	4.580@ -2	1.236@ -1	6.178@ -2	1.413@ -1
2	4	9.225@ -5	5.545@ -3	2.773@ -3	1.413@ -1
13	2	4.303@ -2	2.074@ -1	1.467@ -1	1.534@ -1
17	2	8.962@ -3	9.467@ -2	6.694@ -2	1.534@ -1
14	3	5.020@ -3	5.010@ -2	2.893@ -2	1.453@ -1
15	3	1.306@ -3	2.555@ -2	1.475@ -2	1.453@ -1
16	3	2.112@ -3	3.249@ -2	1.876@ -2	1.453@ -1
18	4	2.646@ -2	9.392@ -2	4.696@ -2	1.413@ -1
19	4	2.729@ -2	9.538@ -2	4.769@ -2	1.413@ -1
20	4	9.041@ -3	5.490@ -2	2.745@ -2	1.413@ -1
21	2	1.409@ -3	3.753@ -2	2.654@ -2	1.558@ -1
22	4	2.089@ -2	8.345@ -2	4.173@ -2	1.413@ -1
23	3	3.888@ -2	1.394@ -1	8.050@ -2	1.453@ -1
24	4	1.823@ -2	7.794@ -2	3.897@ -2	1.413@ -1
5	3	2.218@ -2	1.053@ -1	6.081@ -2	1.459@ -1
12	3	3.190@ -2	1.263@ -1	7.291@ -2	1.453@ -1
11	3	3.915@ -1	4.424@ -1	2.554@ -1	1.453@ -1
1	23	1.172@ -1	7.299@ -2	1.522@ -2	1.297@ -1
2	19	2.235@ -1	1.114@ -1	2.556@ -2	1.306@ -1
3	9	2.731@ -2	5.843@ -2	1.948@ -2	1.351@ -1
4	24	3.589@ -1	1.249@ -1	2.550@ -2	1.244@ -1

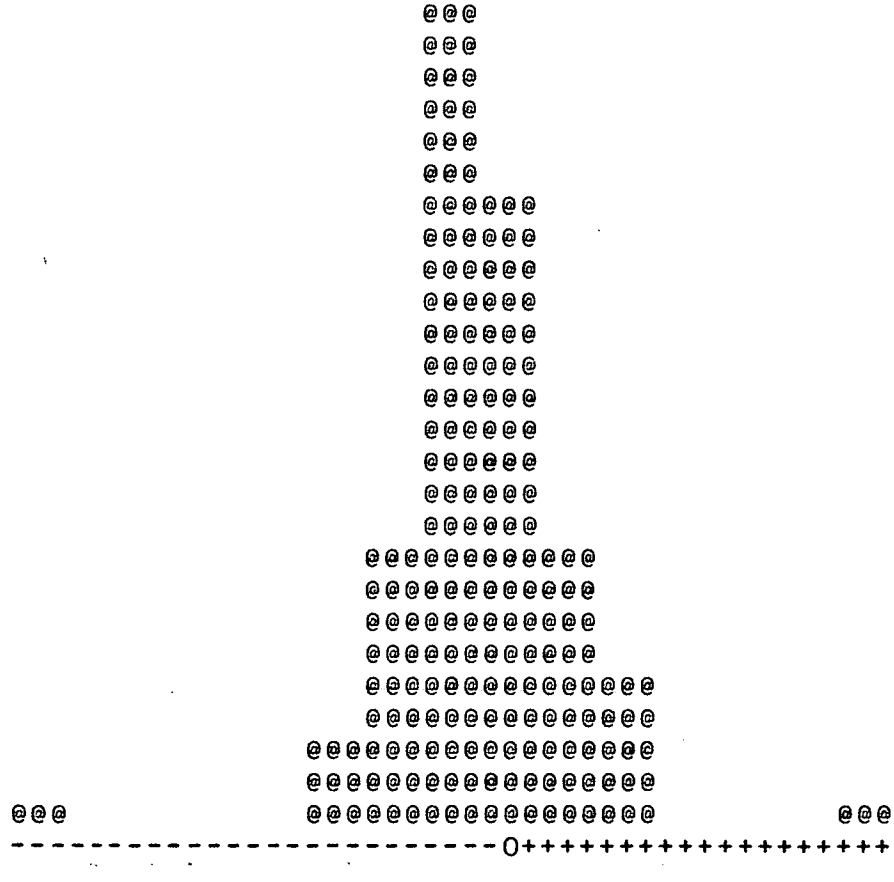
SOLUTION FOR DATA SET 2044 (CONTINUED)

LOCATION		DBAR	SDTV	1SDTV	2SDTV
9	4	161.93	9.773@ -2	1.710@ -1	1.039@ -1
8	2	159.95	9.653@ -2	1.813@ -1	1.002@ -1
7	3	147.17	8.882@ -2	1.703@ -1	9.081@ -2
6	3	152.03	9.176@ -2	1.718@ -1	9.258@ -2
1	3	157.80	9.524@ -2	1.737@ -1	9.702@ -2
4	4	146.95	8.869@ -2	1.668@ -1	9.379@ -2
3	4	155.65	9.394@ -2	1.696@ -1	1.124@ -1
2	4	164.98	9.957@ -2	1.728@ -1	9.961@ -2
13	2	160.25	9.671@ -2	1.814@ -1	1.757@ -1
17	2	160.80	9.705@ -2	1.815@ -1	1.179@ -1
14	3	149.00	8.993@ -2	1.708@ -1	9.446@ -2
15	3	151.80	9.162@ -2	1.717@ -1	9.280@ -2
16	3	155.33	9.375@ -2	1.729@ -1	9.561@ -2
18	4	138.68	8.369@ -2	1.642@ -1	9.597@ -2
19	4	134.52	8.119@ -2	1.629@ -1	9.416@ -2
20	4	137.87	8.321@ -2	1.639@ -1	8.762@ -2
21	2	137.95	8.326@ -2	1.767@ -1	8.738@ -2
22	4	147.25	8.887@ -2	1.669@ -1	9.818@ -2
23	3	170.73	1.030@ -1	1.781@ -1	1.308@ -1
24	4	161.03	9.718@ -2	1.715@ -1	1.047@ -1
5	3	128.20	7.737@ -2	1.651@ -1	9.841@ -2
12	3	141.97	8.568@ -2	1.687@ -1	1.125@ -1
11	3	141.63	8.548@ -2	1.685@ -1	2.694@ -1
1	23	165.63	9.996@ -2	1.638@ -1	1.011@ -1
2	19	141.77	8.556@ -2	1.562@ -1	8.930@ -2
3	9	86.57	5.225@ -2	1.448@ -1	5.576@ -2
4	24	159.92	9.652@ -2	1.574@ -1	9.983@ -2

DATA SET 2044 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 230.70
RANGE OF Y AXIS IS -0.471 TO 0.407



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.471 TO 0.407

DATA SET 2048

70	36	4	60	30	2
118	5	49.60	348.60	1	1
118	6	48.00	336.80	1	2
102	5	36.92	249.80	2	1
102	6	35.70	243.10	2	2
103	5	33.71	225.90	3	1
103	6	33.20	220.90	3	2
104	5	30.72	200.00	4	1
104	6	30.00	197.80	4	2
105	5	27.60	175.70	5	1
105	6	27.60	176.20	5	2
106	5	24.38	150.40	6	1
106	6	25.00	154.90	6	2
107	5	24.86	151.40	7	1
107	6	21.80	126.90	7	2
112	5	24.15	148.70	8	1
112	6	28.30	183.60	8	2
113	5	24.31	150.80	9	1
113	6	30.60	200.30	9	2
114	5	24.57	150.50	10	1
114	6	32.20	212.10	10	2
115	5	24.61	150.80	11	1
115	6	33.90	225.30	11	2
116	5	27.89	174.30	12	1
116	6	38.40	258.20	12	2
205	5	25.03	151.00	13	1
205	6	28.00	175.80	13	2
207	5	24.56	150.50	14	1
207	6	22.20	131.30	14	2
92	5	43.60	298.50	15	1
92	6	41.47	280.60	15	2
8	5	45.26	316.10	16	1
8	6	43.08	297.40	16	2
7	5	46.97	327.70	17	1
7	6	44.95	310.30	17	2
6	5	48.27	338.90	18	1
6	6	46.63	323.00	18	2
1	5	49.69	351.20	19	1
1	6	48.36	336.80	19	2
5	5	50.81	360.00	20	1
5	6	49.39	346.70	20	2
3	5	54.06	384.30	21	1
3	6	52.63	373.30	21	2
13	5	44.95	311.60	22	1
13	6	42.98	296.30	22	2
16	5	42.58	293.80	23	1
16	6	42.50	294.20	23	2
18	5	42.29	287.60	24	1
18	6	42.79	292.50	24	2

DATA SET 2048 (CONTINUED)

19	5	40.93	278.90	25	1
19	6	41.00	281.40	25	2
20	5	39.19	268.00	26	1
20	6	39.61	272.50	26	2
21	5	37.93	256.80	27	1
21	6	38.56	263.20	27	2
22	5	36.26	244.50	28	1
22	6	37.19	253.40	28	2
23	5	34.89	231.40	29	1
23	6	36.14	243.10	29	2
24	5	33.16	219.20	30	1
24	6	34.67	233.60	30	2

SOLUTION FOR DATA SET 2048

V= 8.086 SD V= 8.671@ -2
1/V= 0.1237 SD 1/V= 1.326@ -3

SUM OF SQUARED RESIDUALS= 5.685@ -1

SD OF T= 1.425@ -1

SUMDIJX2= 11544.237

LOCATION	TIME TERMS		SD OF TT
118	49.185-	345.943/V	6.402	0.175
102	36.695-	249.693/V	5.815	0.175
103	33.840-	226.643/V	5.811	0.175
104	30.745-	202.143/V	5.746	0.175
105	27.985-	179.193/V	5.824	0.175
106	25.075-	155.893/V	5.796	0.175
107	23.715-	142.393/V	6.105	0.175
112	26.610-	169.393/V	5.661	0.175
113	27.840-	178.793/V	5.729	0.175
114	28.770-	184.543/V	5.948	0.175
115	29.640-	191.293/V	5.983	0.175
116	33.530-	219.493/V	6.385	0.175
205	26.900-	166.643/V	6.291	0.175
207	23.765-	144.143/V	5.939	0.175
92	42.920-	292.793/V	6.710	0.175
8	44.555-	309.993/V	6.218	0.175
7	46.345-	322.243/V	6.493	0.175
6	47.835-	334.193/V	6.505	0.175
1	49.410-	347.243/V	6.466	0.175
5	50.485-	356.593/V	6.385	0.175
3	53.730-	382.043/V	6.483	0.175
13	44.350-	307.193/V	6.359	0.175
16	42.925-	297.243/V	6.165	0.175
18	42.925-	293.293/V	6.653	0.175
19	41.350-	283.393/V	6.303	0.175
20	39.785-	273.493/V	5.962	0.175
21	38.630-	263.243/V	6.075	0.175
22	37.110-	252.193/V	5.921	0.175
23	35.900-	240.493/V	6.158	0.175
24	34.300-	229.643/V	5.900	0.175
5	-0.770-	-6.487/V	0.032	0.147
6	0.000-	0.000/V	0.000	0.142

		CIJ	DIJ	DIJX2	DELIJ
118	5	1.185	9.143	83.601	0.054
118	6	-1.185	-9.143	83.601	-0.054
102	5	0.995	6.593	43.472	0.180
102	6	-0.995	-6.593	43.472	-0.180
103	5	0.640	5.743	32.986	-0.070
103	6	-0.640	-5.743	32.986	0.070
104	5	0.745	4.343	18.865	0.208
104	6	-0.745	-4.343	18.865	-0.208
105	5	0.385	2.993	8.960	0.015
105	6	-0.385	-2.993	8.960	-0.015

SOLUTION FOR DATA SET 2048 (CONTINUED)

106	5	0.075	0.993	0.987	-0.048
106	6	-0.075	-0.993	0.987	0.048
107	5	1.915	15.493	240.043	-0.001
107	6	-1.915	-15.493	240.043	0.001
112	5	-1.690	-14.207	201.829	0.067
112	6	1.690	14.207	201.829	-0.067
113	5	-2.760	-21.507	462.537	-0.100
113	6	2.760	21.507	462.537	0.100
114	5	-3.430	-27.557	759.370	-0.022
114	6	3.430	27.557	759.370	0.022
115	5	-4.260	-34.007	1156.453	-0.054
115	6	4.260	34.007	1156.453	0.054
116	5	-4.870	-38.707	1498.206	-0.083
116	6	4.870	38.707	1498.206	0.083
205	5	-1.100	-9.157	83.845	0.032
205	6	1.100	9.157	83.845	-0.032
207	5	1.565	12.843	164.951	-0.023
207	6	-1.565	-12.843	164.951	0.023
92	5	1.450	12.193	148.677	-0.058
92	6	-1.450	-12.193	148.677	0.058
8	5	1.475	12.593	158.592	-0.082
8	6	-1.475	-12.593	158.592	0.082
7	5	1.395	11.943	142.643	-0.082
7	6	-1.395	-11.943	142.643	0.082
6	5	1.205	11.193	125.291	-0.179
6	6	-1.205	-11.193	125.291	0.179
1	5	1.050	10.443	109.063	-0.242
1	6	-1.050	-10.443	109.063	0.242
5	5	1.095	9.893	97.878	-0.129
5	6	-1.095	-9.893	97.878	0.129
3	5	1.100	8.743	76.446	0.019
3	6	-1.100	-8.743	76.446	-0.019
13	5	1.370	10.893	118.665	0.023
13	6	-1.370	-10.893	118.665	-0.023
16	5	0.425	3.043	9.262	0.049
16	6	-0.425	-3.043	9.262	-0.049
18	5	0.135	0.793	0.629	0.037
18	6	-0.135	-0.793	0.629	-0.037
19	5	0.350	1.993	3.973	0.103
19	6	-0.350	-1.993	3.973	-0.103
20	5	0.175	0.993	0.987	0.052
20	6	-0.175	-0.993	0.987	-0.052
21	5	0.070	0.043	0.002	0.065
21	6	-0.070	-0.043	0.002	-0.065
22	5	-0.080	-1.207	1.456	0.069
22	6	0.080	1.207	1.456	-0.069
23	5	-0.240	-2.607	6.795	0.082
23	6	0.240	2.607	6.795	-0.082
24	5	-0.370	-3.957	15.655	0.119
24	6	0.370	3.957	15.655	-0.119

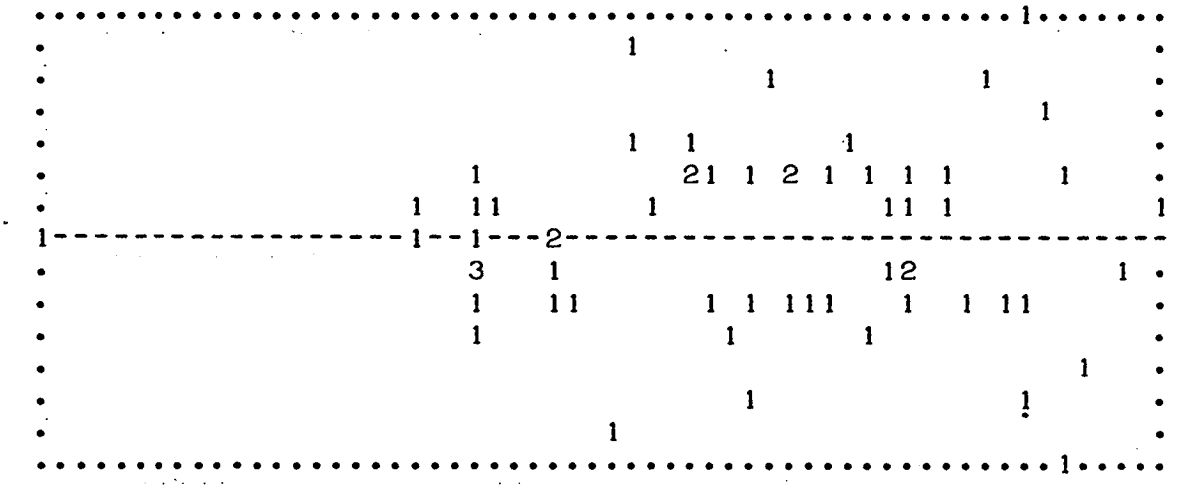
SOLUTION FOR DATA SET 2048 (CONTINUED)

LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
118	2	5.885@ -3	7.671@ -2	5.424@ -2	1.755@ -1
102	2	6.451@ -2	2.540@ -1	1.796@ -1	1.755@ -1
103	2	9.878@ -3	9.939@ -2	7.028@ -2	1.755@ -1
104	2	8.641@ -2	2.940@ -1	2.079@ -1	1.755@ -1
105	2	4.389@ -4	2.095@ -2	1.481@ -2	1.755@ -1
106	2	4.578@ -3	6.766@ -2	4.785@ -2	1.755@ -1
107	2	2.253@ -6	1.501@ -3	1.061@ -3	1.755@ -1
112	2	8.962@ -3	9.467@ -2	6.694@ -2	1.755@ -1
113	2	2.011@ -2	1.418@ -1	1.003@ -1	1.755@ -1
114	2	9.738@ -4	3.121@ -2	2.207@ -2	1.755@ -1
115	2	5.917@ -3	7.692@ -2	5.439@ -2	1.755@ -1
116	2	1.383@ -2	1.176@ -1	8.314@ -2	1.755@ -1
205	2	2.100@ -3	4.583@ -2	3.241@ -2	1.755@ -1
207	2	1.089@ -3	3.300@ -2	2.334@ -2	1.755@ -1
92	2	6.716@ -3	8.195@ -2	5.795@ -2	1.755@ -1
8	2	1.359@ -2	1.166@ -1	8.242@ -2	1.755@ -1
7	2	1.346@ -2	1.160@ -1	8.203@ -2	1.755@ -1
6	2	6.428@ -2	2.535@ -1	1.793@ -1	1.755@ -1
1	2	1.167@ -1	3.416@ -1	2.415@ -1	1.755@ -1
5	2	3.303@ -2	1.817@ -1	1.285@ -1	1.755@ -1
3	2	7.002@ -4	2.646@ -2	1.871@ -2	1.755@ -1
13	2	1.042@ -3	3.227@ -2	2.282@ -2	1.755@ -1
16	2	4.730@ -3	6.877@ -2	4.863@ -2	1.755@ -1
18	2	2.722@ -3	5.217@ -2	3.689@ -2	1.755@ -1
19	2	2.142@ -2	1.463@ -1	1.035@ -1	1.755@ -1
20	2	5.440@ -3	7.376@ -2	5.215@ -2	1.755@ -1
21	2	8.357@ -3	9.142@ -2	6.464@ -2	1.755@ -1
22	2	9.585@ -3	9.790@ -2	6.923@ -2	1.755@ -1
23	2	1.357@ -2	1.165@ -1	8.237@ -2	1.755@ -1
24	2	2.848@ -2	1.687@ -1	1.193@ -1	1.755@ -1
5	30	2.842@ -1	9.900@ -2	1.807@ -2	1.472@ -1
6	31	2.842@ -1	9.734@ -2	1.748@ -2	1.425@ -1

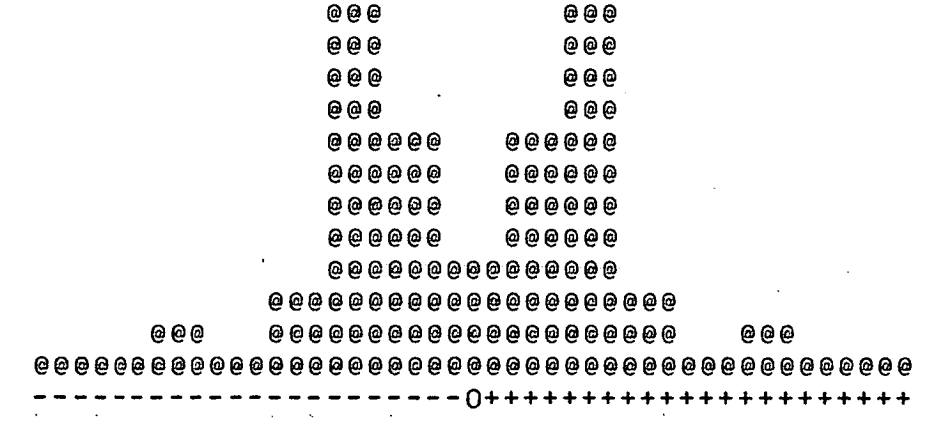
SOLUTION FOR DATA SET 2048 (CONTINUED)

LOCATION		DBAR	SDTV	1SDTV	2SDTV
118	2	342.70	4.545@ -1	4.872@ -1	4.577@ -1
102	2	246.45	3.268@ -1	3.710@ -1	3.729@ -1
103	2	223.40	2.963@ -1	3.443@ -1	3.045@ -1
104	2	198.90	2.638@ -1	3.168@ -1	3.358@ -1
105	2	175.95	2.333@ -1	2.920@ -1	2.338@ -1
106	2	152.65	2.024@ -1	2.679@ -1	2.080@ -1
107	2	139.15	1.845@ -1	2.546@ -1	1.845@ -1
112	2	166.15	2.203@ -1	2.817@ -1	2.303@ -1
113	2	175.55	2.328@ -1	2.915@ -1	2.535@ -1
114	2	181.30	2.404@ -1	2.977@ -1	2.414@ -1
115	2	188.05	2.494@ -1	3.049@ -1	2.552@ -1
116	2	216.25	2.868@ -1	3.362@ -1	2.986@ -1
205	2	163.40	2.167@ -1	2.788@ -1	2.191@ -1
207	2	140.90	1.869@ -1	2.563@ -1	1.883@ -1
92	2	289.55	3.840@ -1	4.222@ -1	3.883@ -1
8	2	306.75	4.068@ -1	4.430@ -1	4.151@ -1
7	2	319.00	4.230@ -1	4.580@ -1	4.309@ -1
6	2	330.95	4.389@ -1	4.727@ -1	4.741@ -1
1	2	344.00	4.562@ -1	4.888@ -1	5.162@ -1
5	2	353.35	4.686@ -1	5.004@ -1	4.859@ -1
3	2	378.80	5.023@ -1	5.321@ -1	5.027@ -1
13	2	303.95	4.031@ -1	4.396@ -1	4.037@ -1
16	2	294.00	3.899@ -1	4.276@ -1	3.929@ -1
18	2	290.05	3.846@ -1	4.228@ -1	3.864@ -1
19	2	280.15	3.715@ -1	4.109@ -1	3.857@ -1
20	2	270.25	3.584@ -1	3.990@ -1	3.622@ -1
21	2	260.00	3.448@ -1	3.869@ -1	3.508@ -1
22	2	248.95	3.301@ -1	3.739@ -1	3.373@ -1
23	2	237.25	3.146@ -1	3.603@ -1	3.252@ -1
24	2	226.40	3.002@ -1	3.478@ -1	3.231@ -1
5	30	244.90	3.248@ -1	3.566@ -1	3.253@ -1
6	31	243.27	3.226@ -1	3.527@ -1	3.231@ -1

DATA SET 2048 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 384.30
RANGE OF Y AXIS IS -0.242 TO 0.242



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.242 TO 0.242

DATA SET 2050

80	26	6	70	24	4
91	1	31.38	190.50	1	1
92	1	31.50	190.90	2	1
8	1	31.87	190.70	3	1
7	1	30.75	184.90	4	1
6	1	29.83	179.00	5	1
1	1	29.00	173.70	6	1
5	1	28.46	169.80	7	1
4	1	27.96	166.80	8	1
3	1	27.92	164.70	9	1
2	1	27.51	162.90	10	1
13	1	30.50	179.40	11	1
17	1	28.24	167.20	12	1
14	1	26.47	156.30	13	1
15	1	24.96	145.70	14	1
16	1	22.85	134.50	15	1
18	2	25.25	147.70	16	2
19	2	23.47	135.50	17	2
20	1	23.72	138.80	18	1
21	1	24.40	142.80	19	1
22	1	25.02	147.30	20	1
23	1	25.96	153.70	21	1
24	1	26.93	160.70	22	1
91	2	16.45	96.80	1	2
92	2	16.51	96.40	2	2
8	2	18.57	109.10	3	2
7	2	20.99	122.10	4	2
1	2	25.35	149.40	6	2
5	2	27.21	159.90	7	2
3	2	31.62	187.00	9	2
11	2	18.04	105.50	23	2
12	2	18.42	106.40	24	2
13	2	19.17	113.40	11	2
17	2	20.06	118.20	12	2
14	2	21.33	124.10	13	2
16	2	23.82	139.90	15	2
20	2	23.50	134.40	18	2
21	2	23.14	133.10	19	2
22	2	23.23	133.90	20	2
23	2	23.35	135.60	21	2
24	2	23.79	138.30	22	2
1	3	10.22	56.80	6	3
5	3	11.94	67.20	7	3
4	3	14.28	80.80	8	3
3	3	16.60	94.40	9	3
2	3	18.75	108.30	10	3
16	3	11.24	63.20	15	3
18	3	13.36	76.80	16	3
19	3	12.25	68.80	17	3
20	3	13.70	75.70	18	3

DATA SET 2050 (CONTINUED)

21	3	15.27	82.80	19	3
22	3	16.63	92.70	20	3
23	3	18.29	103.70	21	3
24	3	19.60	114.40	22	3
91	4	23.06	133.30	1	4
92	4	23.24	133.00	2	4
8	4	22.86	129.20	3	4
6	4	25.16	141.80	5	4
1	4	26.60	150.30	6	4
5	4	27.88	157.50	7	4
4	4	29.21	166.70	8	4
3	4	30.62	176.50	9	4
2	4	32.25	187.70	10	4
11	4	18.74	104.80	23	4
12	4	20.63	117.00	24	4
13	4	25.41	141.10	11	4
17	4	27.17	154.40	12	4
14	4	29.43	166.60	13	4
15	4	31.18	178.60	14	4
16	4	33.00	191.60	15	4
19	4	33.68	196.90	17	4

SOLUTION FOR DATA SET 2050

V= 6.145 SD V= 5.408@ -2
1/V= 0.1627 SD 1/V= 1.432@ -3

SUM OF SQUARED RESIDUALS= 1.722@ 0

SD OF T= 2.025@ -1

SUMDIJX2= 19994.848

LOCATION	TIME TERMS		SD OF TT
91	25.311-	146.519/V	1.468	0.237
92	25.431-	146.419/V	1.604	0.237
8	26.115-	149.319/V	1.816	0.237
7	28.392-	162.979/V	1.870	0.256
6	27.530-	157.225/V	1.944	0.250
1	27.531-	157.306/V	1.932	0.231
5	28.611-	163.356/V	2.028	0.231
4	28.476-	162.672/V	2.004	0.238
3	31.428-	180.406/V	2.070	0.231
2	30.830-	177.539/V	1.938	0.238
13	26.708-	150.952/V	2.143	0.237
17	26.838-	152.919/V	1.953	0.237
14	27.425-	155.319/V	2.149	0.237
15	28.105-	158.975/V	2.235	0.250
16	27.466-	157.056/V	1.908	0.231
18	28.746-	164.937/V	1.906	0.257
19	29.428-	168.858/V	1.949	0.238
20	26.624-	149.308/V	2.327	0.242
21	27.254-	152.575/V	2.426	0.242
22	27.944-	157.642/V	2.291	0.242
23	28.851-	164.008/V	2.162	0.242
24	29.758-	170.808/V	1.962	0.242
11	20.877-	117.804/V	1.707	0.251
12	22.012-	124.354/V	1.776	0.251
1	-0.070-	6.350/V	-1.103	0.214
2	-4.974-	-25.307/V	-0.856	0.215
3	-13.909-	-80.067/V	-0.880	0.219
4	0.000-	0.000/V	0.000	0.202

		CIJ	DIJ	DIJX2	DELIJ
91	1	6.139	37.631	1416.097	0.015
92	1	6.139	38.131	1453.978	-0.067
8	1	5.825	35.031	1227.175	0.125
7	1	2.428	15.571	242.471	-0.106
6	1	2.370	15.425	237.934	-0.140
1	1	1.539	10.044	100.883	-0.095
5	1	-0.081	0.094	0.009	-0.096
4	1	-0.446	-2.222	4.938	-0.085
3	1	-3.438	-22.056	486.464	0.151
2	1	-3.250	-20.989	440.534	0.166
13	1	3.862	22.098	488.309	0.266
17	1	1.472	7.931	62.902	0.181
14	1	-0.885	-5.369	28.826	-0.011
15	1	-3.075	-19.625	385.136	0.118

SOLUTION FOR DATA SET 2050 (CONTINUED)

16	1	-4.546	-28.906	835.553	0.158
18	2	1.477	8.070	65.126	0.164
19	2	-0.984	-8.051	64.816	0.326
20	1	-2.834	-16.858	284.191	-0.091
21	1	-2.784	-16.125	260.004	-0.160
22	1	-2.854	-16.691	278.600	-0.138
23	1	-2.821	-16.658	277.488	-0.110
24	1	-2.758	-16.458	270.865	-0.080
91	2	-3.887	-24.412	595.941	0.085
92	2	-3.947	-24.712	610.678	0.074
8	2	-2.571	-14.912	222.365	-0.144
7	2	-2.428	-15.571	242.471	0.106
1	2	2.793	17.401	302.799	-0.038
5	2	3.573	21.851	477.471	0.017
3	2	5.166	31.901	1017.681	-0.026
11	2	2.137	13.004	169.094	0.021
12	2	1.382	7.354	54.076	0.185
13	2	-2.564	-12.245	149.946	-0.571
17	2	-1.804	-9.412	88.584	-0.272
14	2	-1.121	-5.912	34.951	-0.159
16	2	1.328	8.151	66.441	0.002
20	2	1.850	10.399	108.141	0.157
21	2	0.860	5.832	34.017	-0.089
22	2	0.260	1.566	2.452	0.005
23	2	-0.527	-3.101	9.616	-0.022
24	2	-0.994	-7.201	51.853	0.178
1	3	-3.402	-20.439	417.754	-0.076
5	3	-2.762	-16.089	258.857	-0.144
4	3	-0.287	-1.805	3.259	0.006
3	3	-0.919	-5.939	35.272	0.047
2	3	1.829	10.828	117.246	0.067
16	3	-2.317	-13.789	190.138	-0.073
18	3	-1.477	-8.070	65.126	-0.164
19	3	-3.269	-19.991	399.641	-0.016
20	3	0.985	6.459	41.718	-0.066
21	3	1.925	10.292	105.930	0.250
22	3	2.595	15.126	228.783	0.133
23	3	3.348	19.759	390.415	0.133
24	3	3.751	23.659	559.744	-0.099
91	4	-2.251	-13.219	174.746	-0.100
92	4	-2.191	-13.419	180.074	-0.008
8	4	-3.255	-20.119	404.780	0.019
6	4	-2.370	-15.425	237.934	0.140
1	4	-0.931	-7.006	49.086	0.209
5	4	-0.731	-5.856	34.294	0.222
4	4	0.734	4.028	16.221	0.078
3	4	-0.808	-3.906	15.258	-0.173
2	4	1.420	10.161	103.244	-0.233
11	4	-2.137	-13.004	169.094	-0.021
12	4	-1.382	-7.354	54.076	-0.185
13	4	-1.298	-9.852	97.072	0.305
17	4	0.332	1.481	2.193	0.091
14	4	2.005	11.281	127.257	0.170
15	4	3.075	19.625	385.136	-0.118
16	4	5.534	34.544	1193.278	-0.087
19	4	4.252	28.042	786.347	-0.311

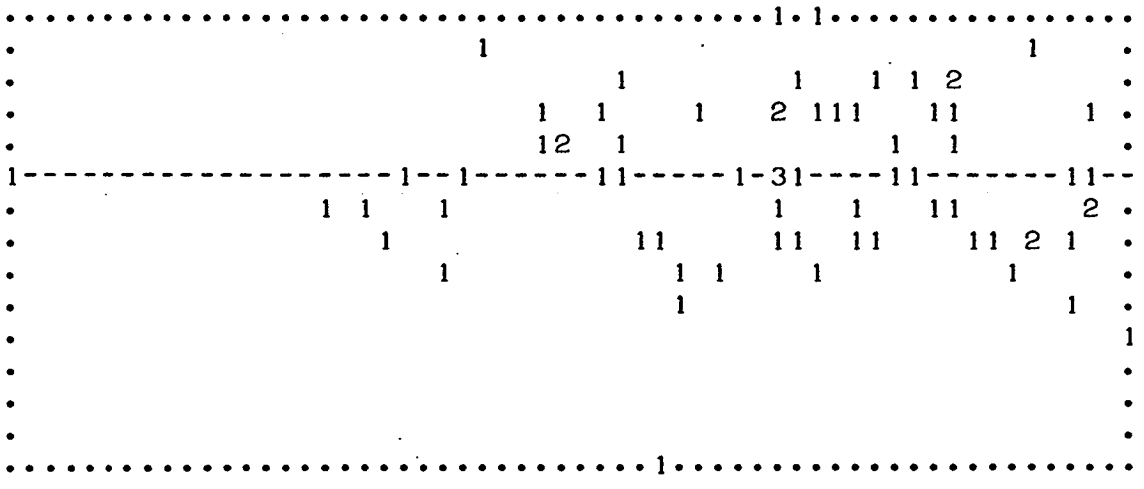
SOLUTION FOR DATA SET 2050 (CONTINUED)

LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
91	3	1.751@ -2	9.356@ -2	5.402@ -2	2.375@ -1
92	3	9.973@ -3	7.061@ -2	4.077@ -2	2.375@ -1
8	3	3.664@ -2	1.354@ -1	7.815@ -2	2.375@ -1
7	2	2.248@ -2	1.499@ -1	1.060@ -1	2.557@ -1
6	2	3.933@ -2	1.983@ -1	1.402@ -1	2.505@ -1
1	4	6.016@ -2	1.416@ -1	7.080@ -2	2.311@ -1
5	4	7.957@ -2	1.629@ -1	8.143@ -2	2.311@ -1
4	3	1.337@ -2	8.176@ -2	4.721@ -2	2.380@ -1
3	4	5.540@ -2	1.359@ -1	6.795@ -2	2.311@ -1
2	3	8.634@ -2	2.078@ -1	1.200@ -1	2.380@ -1
13	3	4.904@ -1	4.952@ -1	2.859@ -1	2.375@ -1
17	3	1.153@ -1	2.402@ -1	1.387@ -1	2.375@ -1
14	3	5.406@ -2	1.644@ -1	9.492@ -2	2.375@ -1
15	2	2.808@ -2	1.676@ -1	1.185@ -1	2.505@ -1
16	4	3.786@ -2	1.123@ -1	5.617@ -2	2.311@ -1
18	2	5.395@ -2	2.323@ -1	1.642@ -1	2.570@ -1
19	3	2.035@ -1	3.190@ -1	1.842@ -1	2.381@ -1
20	3	3.749@ -2	1.369@ -1	7.905@ -2	2.419@ -1
21	3	9.615@ -2	2.193@ -1	1.266@ -1	2.419@ -1
22	3	3.690@ -2	1.358@ -1	7.842@ -2	2.419@ -1
23	3	3.026@ -2	1.230@ -1	7.102@ -2	2.419@ -1
24	3	4.781@ -2	1.546@ -1	8.926@ -2	2.419@ -1
11	2	8.716@ -4	2.952@ -2	2.088@ -2	2.505@ -1
12	2	6.868@ -2	2.621@ -1	1.853@ -1	2.505@ -1
1	20	3.412@ -1	1.340@ -1	2.996@ -2	2.144@ -1
2	20	7.063@ -1	1.928@ -1	4.311@ -2	2.147@ -1
3	13	1.776@ -1	1.216@ -1	3.374@ -2	2.190@ -1
4	18	4.970@ -1	1.710@ -1	4.030@ -2	2.025@ -1

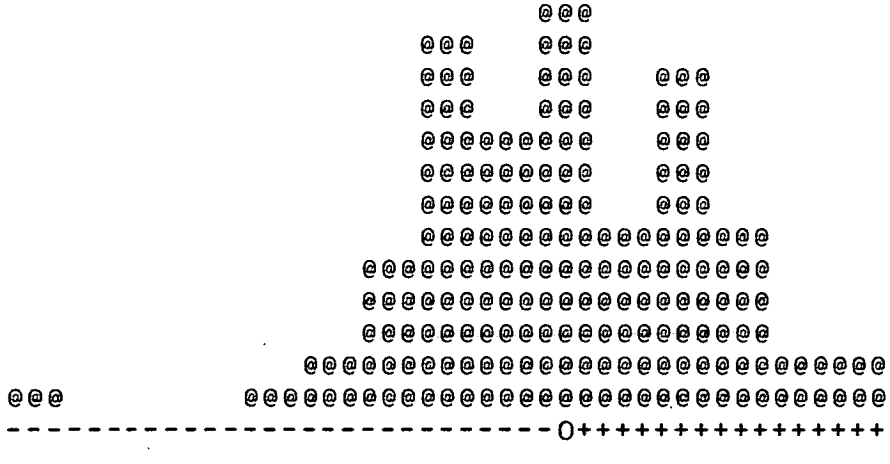
SOLUTION FOR DATA SET 2050 (CONTINUED)

LOCATION		DBAR	SDTV	1SDTV	2SDTV
91	3	140.20	2.008@ -1	3.110@ -1	2.079@ -1
92	3	140.10	2.006@ -1	3.109@ -1	2.047@ -1
8	3	143.00	2.048@ -1	3.136@ -1	2.192@ -1
7	2	153.50	2.198@ -1	3.372@ -1	2.440@ -1
6	2	160.40	2.297@ -1	3.398@ -1	2.691@ -1
1	4	132.55	1.898@ -1	2.991@ -1	2.026@ -1
5	4	138.60	1.985@ -1	3.046@ -1	2.145@ -1
4	3	138.10	1.978@ -1	3.095@ -1	2.033@ -1
3	4	155.65	2.229@ -1	3.211@ -1	2.330@ -1
2	3	152.97	2.190@ -1	3.235@ -1	2.497@ -1
13	3	144.63	2.071@ -1	3.151@ -1	3.530@ -1
17	3	146.60	2.099@ -1	3.170@ -1	2.516@ -1
14	3	149.00	2.134@ -1	3.193@ -1	2.335@ -1
15	2	162.15	2.322@ -1	3.415@ -1	2.607@ -1
16	4	132.30	1.895@ -1	2.988@ -1	1.976@ -1
18	2	112.25	1.607@ -1	3.031@ -1	2.298@ -1
19	3	133.73	1.915@ -1	3.055@ -1	2.657@ -1
20	3	116.30	1.665@ -1	2.937@ -1	1.843@ -1
21	3	119.57	1.712@ -1	2.964@ -1	2.129@ -1
22	3	124.63	1.785@ -1	3.006@ -1	1.949@ -1
23	3	131.00	1.876@ -1	3.061@ -1	2.006@ -1
24	3	137.80	1.973@ -1	3.122@ -1	2.166@ -1
11	2	105.15	1.506@ -1	2.923@ -1	1.520@ -1
12	2	111.70	1.600@ -1	2.972@ -1	2.448@ -1
1	20	165.01	2.363@ -1	3.190@ -1	2.382@ -1
2	20	129.33	1.852@ -1	2.835@ -1	1.902@ -1
3	13	83.51	1.196@ -1	2.495@ -1	1.243@ -1
4	18	145.94	2.090@ -1	2.910@ -1	2.128@ -1

DATA SET 2050 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 196.90
RANGE OF Y AXIS IS -0.571 TO 0.326



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.571 TO 0.326

DATA SET 2053

120	15	20	104	10	16
6401	32	22.76	133.15	1	1
6407	21	2.55	7.01	2	2
6406	21	3.50	12.99	3	2
6405	21	3.96	15.96	4	2
6405	21	3.91	16.00	4	2
6405	21	3.96	16.00	4	2
6404	21	4.19	17.50	5	2
6401	21	4.37	19.10	1	2
6402	21	4.89	22.07	6	2
6407	22	4.08	16.24	2	3
6406	22	5.00	22.09	3	3
6405	22	5.43	25.01	4	3
6405	22	5.45	25.05	4	3
6405	22	5.43	25.05	4	3
6404	22	5.65	26.53	5	3
6401	22	5.87	28.08	1	3
6402	22	6.37	31.07	6	3
6407	23	6.83	30.12	2	4
6406	23	7.73	26.07	3	4
6405	23	8.17	39.02	4	4
6405	23	8.18	39.05	4	4
6405	23	8.15	39.05	4	4
6404	23	8.35	40.55	5	4
6404	23	8.34	40.55	5	4
6401	23	8.56	42.11	1	4
6401	23	8.56	42.13	1	4
6402	23	9.03	45.10	6	4
6407	24	8.15	37.90	2	5
6406	04	9.10	43.86	3	5
6405	24	9.54	46.81	4	5
6405	24	9.53	46.85	4	5
6405	24	9.53	46.85	4	5
6404	24	9.73	48.34	5	5
6404	24	9.73	48.34	4	5
6401	24	9.96	49.90	1	5
6401	24	9.99	49.90	0	5
6400	24	9.96	49.93	1	5
6204	48	10.61	48.63	7	6
6203	48	11.61	55.33	8	6
6202	48	12.63	62.09	9	6
6201	48	13.72	68.79	10	6
6202	32	15.82	81.35	9	1
6201	32	16.98	88.47	10	1
6204	47	17.31	93.95	7	7
6203	47	18.60	101.10	8	7
6201	26	26.93	150.10	10	8
6204	24	26.37	150.02	7	5
6203	24	27.43	157,37	8	5
6202	24	28.58	164.64	9	5
6201	24	29.61	171.76	10	5
6204	22	29.09	171.96	7	3
6203	22	30.18	179.30	8	3
6202	22	31.33	186.57	9	3
6200	22	32.37	193.69	10	3

DATA SET 2053 (CONTINUED)

6407	26	11.70	49.41	2	8
6404	26	12.60	65.39	3	8
6405	26	13.08	68.36	4	8
6405	26	13.03	68.39	4	8
6405	26	13.08	68.39	4	8
6404	26	10.26	69.89	5	8
6401	26	13.41	71.49	1	8
6407	27	12.69	66.42	2	9
6406	27	13.78	72.41	3	9
6405	27	14.25	75.37	4	9
6405	27	14.09	75.41	4	9
6405	27	14.11	75.41	4	9
6404	27	14.25	76.91	5	9
6404	27	14.23	76.91	5	9
6401	27	04.45	78.51	1	9
6405	28	14.92	80.79	4	10
6404	28	15.26	80.33	5	10
6401	28	15.25	83.92	1	10
6405	30	18.65	104.10	4	11
6405	30	18.80	105.10	4	11
6404	30	18.97	106.60	5	11
6401	30	18.02	108.20	1	11
6405	31	20.79	119.70	4	12
6405	31	00.83	019.70	4	12
6405	31	20.78	119.70	4	12
6401	31	21.16	122.79	1	12
6402	24	10.46	52.90	6	5
6407	25	9.45	45.05	2	13
6404	25	10.34	51.01	3	13
6405	25	10.89	53.97	4	13
6405	25	10.74	54.00	4	13
6405	25	10.74	54.00	4	13
6404	25	10.99	55.50	5	13
6404	25	10.95	55.50	5	13
6401	25	11.15	57.06	1	13
6401	25	11.19	57.06	1	13
6401	25	11.17	57.09	1	13
6402	25	11.67	60.06	6	13
6405	28	15.01	80.83	4	10
6204	26	23.52	128.36	7	8
6203	26	24.65	135.71	8	8
6201	49	10.80	52.33	10	14
6202	49	11.95	59.43	9	14
201	44	21.39	120.06	10	15
6202	44	21.41	127.06	9	15
6203	44	02.99	134.20	8	15
6204	44	23.91	141.42	7	15
6203	37	6.98	24.66	8	16
6202	37	8.35	34.87	9	16
6201	37	9.38	41.97	10	16

SOLUTION FOR DATA SET 2053

V= 6.540 SD V= 2.473@ -2
1/V= 0.1529 SD 1/V= 5.782@ -4

SUM OF SQUARED RESIDUALS= 6.797@ -1

SD OF T= 9.335@ -2

SUMDIJX2= 26063.712

LOCATION	TIME TERMS			SD OF TT
6401	-7.778-	-61.947/V	1.694	0.115
6407	-10.645-	-81.132/V	1.761	0.118
6406	-9.702-	-75.179/V	1.793	0.118
6405	-9.181-	-71.647/V	1.774	0.114
6404	-8.970-	-70.039/V	1.740	0.116
6402	-8.757-	-68.753/V	1.755	0.120
6204	7.581-	30.898/V	2.857	0.117
6203	8.160-	34.531/V	2.880	0.112
6202	8.145-	34.491/V	2.871	0.112
6201	8.406-	35.477/V	2.981	0.111
32	15.596-	98.316/V	0.563	0.122
21	13.091-	87.328/V	-0.262	0.118
22	17.279-	113.936/V	-0.142	0.114
23	17.204-	109.773/V	0.420	0.117
24	18.887-	119.726/V	0.580	0.114
48	4.070-	24.860/V	0.268	0.118
47	10.085-	64.810/V	0.175	0.130
26	20.575-	128.782/V	0.884	0.115
27	23.182-	146.328/V	0.808	0.118
28	23.887-	150.787/V	0.831	0.123
30	27.637-	175.070/V	0.869	0.123
31	29.720-	189.694/V	0.715	0.123
25	19.745-	124.202/V	0.754	0.117
49	3.100-	20.896/V	-0.095	0.027
44	14.427-	96.834/V	-0.379	0.118
37	0.000-	0.000/V	0.000	0.093

SOLUTION FOR DATA SET 2053 (CONTINUED)

		CIJ	DIJ	DIJX2	DELIJ
6401	32	14.942	96.781	9366.544	0.144
6407	21	0.104	0.805	0.664	-0.020
6404	21	0.111	0.842	0.709	-0.017
6405	21	0.051	0.279	0.078	0.008
6405	21	0.001	0.309	0.102	-0.048
6405	21	0.051	0.319	0.100	0.002
6404	21	0.069	0.212	0.045	0.037
6401	21	-0.943	-6.280	39.445	0.017
6402	20	0.557	3.495	12.218	0.022
6407	22	-2.555	-16.564	274.361	-0.022
6406	22	-2.578	-16.667	277.779	-0.028
6405	22	-2.668	-17.279	298.581	-0.026
6404	22	-2.648	-17.239	297.200	-0.012
6405	22	-0.668	-17.239	297.200	-0.032
6404	22	-2.660	-17.367	301.600	-0.004
6401	22	-3.632	-23.909	571.639	0.024
6402	22	-0.152	-14.113	199.178	0.006
6407	23	0.271	1.479	2.189	0.044
6406	23	0.228	1.477	2.180	0.002
6405	23	0.147	0.894	0.799	0.010
6405	23	0.157	0.924	0.853	0.016
6405	23	0.127	0.924	0.853	-0.014
6404	23	0.116	0.817	0.667	-0.008
6404	23	0.106	0.817	0.667	-0.019
6401	23	-0.867	-5.716	32.669	0.007
6401	23	-0.867	-5.696	32.440	0.004
6402	23	0.583	4.080	16.649	-0.041
6407	24	-0.092	-0.694	0.482	0.014
6406	24	-0.085	-0.687	0.472	0.020
6405	24	-0.165	-1.270	1.613	0.029
4405	24	-0.175	-1.230	1.513	0.013
6405	24	-0.175	-1.230	1.513	0.013
6404	24	-0.187	-1.347	1.814	0.019
6404	24	-0.187	-1.347	1.814	0.019
6401	24	-1.149	-7.879	62.084	0.056
6401	24	-1.119	-7.879	62.084	0.086
6401	24	-1.149	-7.849	61.612	0.051
6204	48	-1.041	-7.129	50.818	0.049
6203	48	-0.619	-4.062	16.498	0.002
6202	48	0.416	2.738	7.497	-0.003
6201	48	1.244	8.452	71.442	-0.048
6002	32	-7.920	-51.458	2647.879	-0.052
6201	32	-7.022	-45.323	2054.207	-0.091
6204	47	-0.356	-1.758	3.092	-0.087
6203	47	0.356	1.758	3.092	0.087
6201	26	-2.051	-14.159	200.486	0.114
6204	24	-0.098	-0.605	0.366	-0.004
6203	24	0.384	3.112	9.686	-0.092
6200	24	1.549	10.422	108.622	-0.045
6201	24	2.318	16.556	274.114	-0.214
6204	22	4.229	27.126	735.806	0.082
6203	22	4.741	30.833	950.651	0.027
6202	22	5.906	38.143	1454.855	0.074
6201	22	6.685	44.277	1960.431	-0.085

SOLUTION FOR DATA SET 2053 (CONTINUED)

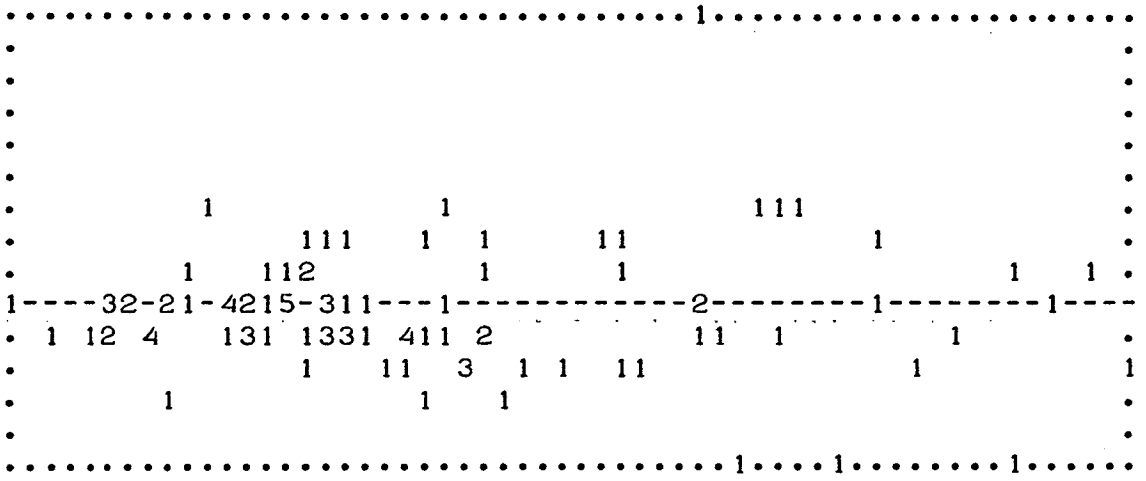
6407	26	1.770	11.760	138.300	-0.028
6406	26	1.727	11.787	138.939	-0.075
6405	26	1.686	01.224	125.988	-0.030
6405	26	1.636	11.254	126.663	-0.085
6405	26	1.686	11.254	126.663	-0.035
6404	26	1.655	11.147	124.263	-0.050
6401	26	0.613	4.655	21.669	0.099
6407	27	0.153	1.224	1.498	-0.034
6406	27	0.300	1.261	1.590	0.107
6405	27	0.249	0.688	0.474	0.144
6405	27	0.089	0.728	0.530	-0.022
6405	27	0.109	0.728	0.530	-0.002
6404	27	0.038	0.621	0.386	-0.057
6404	27	0.018	0.621	0.386	-0.077
6401	27	-0.954	-5.871	34.472	-0.057
6405	28	0.214	1.649	2.720	-0.038
6404	28	0.342	1.582	2.503	0.100
6401	28	-0.860	-4.920	24.210	-0.107
6405	30	0.194	1.677	2.811	-0.063
6405	30	0.344	1.677	2.811	0.087
6404	30	0.302	1.570	2.463	0.062
6401	30	-0.840	-4.923	24.234	-0.087
6405	31	0.251	1.652	2.730	-0.002
6405	31	0.291	1.652	0.730	0.038
6405	31	0.241	1.652	2.730	-0.012
6401	31	-0.783	-4.957	24.573	-0.025
6402	24	0.331	1.927	3.712	0.036
6407	25	0.349	1.980	3.920	0.047
6406	25	0.296	1.987	3.949	-0.007
6405	25	0.326	1.414	2.000	0.109
6405	25	0.176	1.444	2.086	-0.045
6405	25	0.076	1.444	2.086	-0.045
6404	25	0.214	1.337	1.788	0.010
6404	25	0.174	1.337	1.788	-0.030
6401	25	-0.818	-5.195	26.989	-0.020
6401	25	-0.778	-5.195	26.989	0.017
6401	25	-0.798	-5.165	26.679	-0.008
6402	25	0.682	4.611	21.259	-0.023
6405	28	0.304	1.689	2.853	0.045
6204	26	-4.636	-31.320	980.962	0.153
6203	26	-4.085	-27.603	761.949	0.136
6201	49	-0.706	-4.043	16.345	-0.084
6202	49	0.706	4.043	16.345	0.087
6201	44	-1.443	-12.253	150.128	0.430
6202	44	-0.862	-4.267	18.206	-0.209
6203	44	0.403	2.833	8.027	-0.030
6204	44	1.902	13.686	187.315	-0.191
6203	37	-1.180	-6.871	47.215	-0.129
6202	37	0.205	0.379	0.143	0.148
6201	37	0.974	6.493	42.156	-0.019

SOLUTION FOR DATA SET 2053 (CONTINUED)

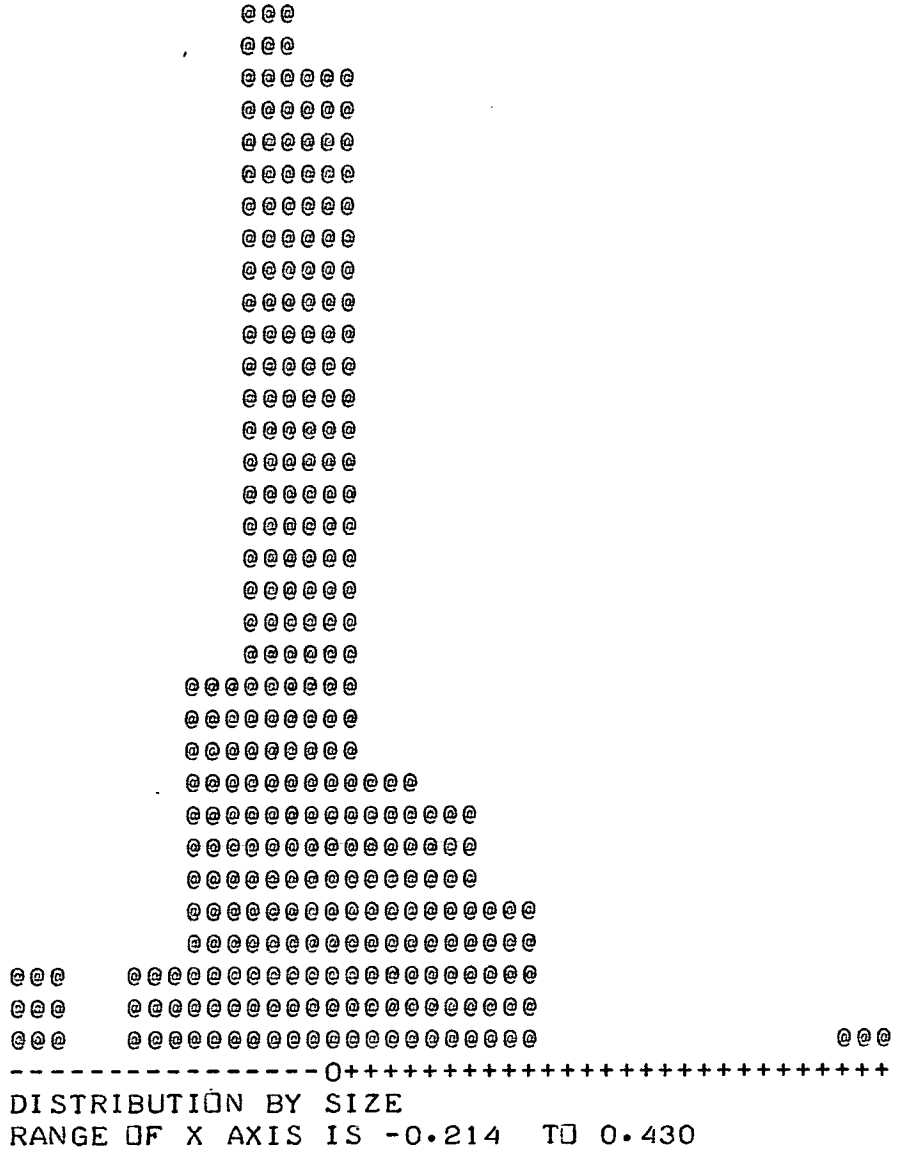
LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
6401	16	6.839@ -2	6.752@ -2	1.688@ -2	1.149@ -1
6407	7	7.244@ -3	3.475@ -2	1.313@ -2	1.180@ -1
6406	7	1.876@ -2	5.592@ -2	2.114@ -2	1.180@ -1
6405	28	6.922@ -2	5.063@ -2	9.569@ -3	1.142@ -1
6404	13	2.930@ -2	4.941@ -2	1.371@ -2	1.158@ -1
6402	5	4.034@ -3	3.176@ -2	1.420@ -2	1.203@ -1
6204	6	7.651@ -2	1.237@ -1	5.050@ -2	1.171@ -1
6203	7	5.277@ -2	9.378@ -2	3.545@ -2	1.121@ -1
6202	7	8.344@ -2	1.179@ -1	4.457@ -2	1.117@ -1
6201	8	2.700@ -1	1.964@ -1	6.944@ -2	1.114@ -1
32	3	3.176@ -2	1.260@ -1	7.276@ -2	1.216@ -1
21	8	5.257@ -3	2.740@ -2	9.689@ -3	1.179@ -1
22	12	2.397@ -2	4.669@ -2	1.348@ -2	1.138@ -1
23	10	4.730@ -3	2.292@ -2	7.249@ -3	1.069@ -1
24	15	7.315@ -2	7.229@ -2	1.866@ -2	1.136@ -1
48	4	4.710@ -3	3.962@ -2	1.981@ -2	1.180@ -1
47	2	1.511@ -2	1.229@ -1	8.693@ -2	1.296@ -1
26	10	8.297@ -2	9.601@ -2	3.036@ -2	1.149@ -1
27	8	4.629@ -2	8.132@ -2	2.875@ -2	1.180@ -1
28	4	2.517@ -2	9.159@ -2	4.580@ -2	1.226@ -1
30	4	2.302@ -2	8.759@ -2	4.379@ -2	1.226@ -1
31	4	2.208@ -3	2.713@ -2	1.357@ -2	1.228@ -1
25	11	2.071@ -2	4.551@ -2	1.372@ -2	1.166@ -1
49	2	1.531@ -2	1.237@ -1	8.748@ -2	1.273@ -1
44	4	2.665@ -1	2.981@ -1	1.490@ -1	1.180@ -1
37	4	3.877@ -2	1.137@ -1	5.684@ -2	9.335@ -2

LOCATION		DBAR	SDTV	1SDTV	2SDTV
6401	16	65.65	3.796@ -2	1.210@ -1	4.154@ -2
6407	7	37.45	2.165@ -2	1.200@ -1	2.533@ -2
6406	7	43.40	2.510@ -2	1.206@ -1	3.281@ -2
6405	28	60.89	3.521@ -2	1.194@ -1	3.648@ -2
6404	13	57.34	3.316@ -2	1.204@ -1	3.588@ -2
6402	5	42.24	2.442@ -2	1.227@ -1	2.825@ -2
6204	6	122.39	7.077@ -2	1.368@ -1	8.694@ -2
6203	7	112.95	6.531@ -2	1.297@ -1	7.431@ -2
6202	7	102.29	5.914@ -2	1.264@ -1	7.406@ -2
6201	8	110.90	6.412@ -2	1.285@ -1	9.452@ -2
32	3	100.99	5.839@ -2	1.349@ -1	9.329@ -2
21	8	15.83	9.152@ -3	1.183@ -1	1.333@ -2
22	12	77.55	4.484@ -2	1.223@ -1	4.682@ -2
23	10	39.38	2.277@ -2	1.191@ -1	2.389@ -2
24	15	77.69	4.492@ -2	1.221@ -1	4.865@ -2
48	4	58.71	3.395@ -2	1.228@ -1	3.931@ -2
47	2	97.52	5.639@ -2	1.413@ -1	1.036@ -1
26	10	88.55	5.120@ -2	1.258@ -1	5.953@ -2
27	8	74.67	4.317@ -2	1.256@ -1	5.187@ -2
28	4	81.97	4.739@ -2	1.315@ -1	6.591@ -2
30	4	106.25	6.144@ -2	1.371@ -1	7.545@ -2
31	4	120.47	6.966@ -2	1.412@ -1	7.097@ -2
25	11	54.57	3.155@ -2	1.208@ -1	3.441@ -2
49	2	55.88	3.231@ -2	1.314@ -1	9.326@ -2
44	4	130.68	7.556@ -2	1.401@ -1	1.671@ -1
37	4	26.12	1.511@ -2	9.456@ -2	5.882@ -2

DATA SET 2053 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 193.69
RANGE OF Y AXIS IS -0.214 TO 0.430



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.214 TO 0.430

DATA SET 2054

120	15	20	103	10	16
6401	32	22.76	133.15	1	1
6407	21	2.55	7.01	2	2
6406	21	3.50	12.99	3	2
6405	21	3.96	15.96	4	2
6405	21	3.91	16.00	4	2
6405	21	3.96	16.00	4	2
6404	21	4.19	17.50	5	2
6401	21	4.37	19.10	1	2
6402	21	4.89	22.07	6	2
6407	22	4.08	16.24	2	3
6406	22	5.00	22.09	3	3
6405	22	5.43	25.01	4	3
6405	22	5.45	25.05	4	3
6405	22	5.43	25.05	4	3
6404	22	5.65	26.53	5	3
6401	22	5.87	28.08	1	3
6402	22	6.37	31.07	6	3
6407	23	6.83	30.12	2	4
6406	23	7.73	36.07	3	4
6405	23	8.17	39.02	4	4
6405	23	8.18	39.05	4	4
6405	23	8.15	39.05	4	4
6404	23	8.35	40.55	5	4
6404	23	8.34	40.55	5	4
6401	23	8.56	42.11	1	4
6401	23	8.56	42.13	1	4
6402	23	9.03	45.10	6	4
6407	24	8.15	37.90	2	5
6406	24	9.10	43.86	3	5
6405	24	9.54	46.81	4	5
6405	24	9.53	46.85	4	5
6405	24	9.53	46.85	4	5
6404	24	9.73	48.34	5	5
6404	24	9.73	48.34	5	5
6401	24	9.96	49.90	1	5
6401	24	9.99	49.90	1	5
6401	24	9.96	49.93	1	5
6204	48	10.61	48.63	7	6
6203	48	11.61	55.33	8	6
6202	48	12.63	62.09	9	6
6201	48	13.72	68.79	10	6
6202	32	15.82	81.35	9	1
6201	32	16.98	88.47	10	1
6204	47	17.31	93.95	7	7
6203	47	18.60	101.10	8	7
6201	26	26.93	150.10	10	8
6204	24	26.37	150.02	7	5
6203	24	27.43	157.37	8	5
6202	24	28.58	164.64	9	5
6201	24	29.61	171.76	10	5

DATA SET 2054 (CONTINUED)

6204	22	29.09	171.96	7	3
6203	22	30.18	179.30	8	3
6202	22	31.33	186.57	9	3
6201	22	32.37	193.69	10	3
6407	26	11.70	59.41	2	8
6406	26	12.60	65.39	3	8
6405	26	13.08	68.36	4	8
6405	26	13.03	68.39	4	8
6405	26	13.08	68.39	4	8
6404	26	13.26	69.89	5	8
6401	26	13.41	71.49	1	8
6407	27	10.69	66.42	2	9
6406	27	13.78	72.41	3	9
6405	27	14.25	75.37	4	9
6405	27	14.09	75.41	4	9
6405	27	14.11	74.41	4	9
6404	27	14.25	76.91	5	9
6404	27	14.23	76.91	5	9
6401	27	14.45	78.51	1	9
6405	28	14.92	80.79	4	10
6404	28	15.26	82.33	5	10
6401	28	15.25	83.92	1	10
6405	30	18.65	105.10	4	11
6405	30	18.80	105.10	4	11
6404	30	18.97	106.60	5	11
6401	30	19.02	108.20	1	11
6405	31	20.79	119.70	4	12
6405	31	20.83	119.70	4	12
6405	31	20.78	119.70	4	12
6401	31	21.16	122.79	1	12
6402	24	10.46	52.90	6	5
6407	25	9.45	45.05	2	13
6406	25	10.34	51.01	3	13
6405	25	10.89	53.97	4	13
6405	25	10.74	54.00	4	13
6405	25	10.74	54.00	4	13
6404	25	10.99	55.50	5	13
6404	25	10.95	55.50	5	13
6401	25	11.15	57.06	1	13
6401	25	11.19	57.06	1	03
6401	25	11.17	57.09	1	13
6402	25	11.67	60.06	6	13
6405	28	15.01	80.83	4	10
6204	26	23.52	128.36	7	8
6203	26	24.65	135.71	8	8
6201	49	10.80	52.33	10	14
6202	49	11.95	59.43	9	14
6202	44	21.71	127.06	9	15
6203	44	22.99	134.20	8	15
6204	44	23.91	141.42	7	15
6203	37	6.98	27.66	8	16
6202	37	8.35	34.87	9	16
6201	37	9.38	41.97	10	16

SOLUTION FOR DATA SET 2054

V= 6.527 SD V= 1.884@ -2
1/V= 0.1532 SD 1/V= 4.424@ -4

SUM OF SQUARED RESIDUALS= 3.892@ -1

SD OF T= 7.109@ -2

SUMDIJX2= 25830.471

LOCATION	TIME TERMS			SD OF TT
6401	-7.798-	-62.120/V	1.720	0.087
6407	-10.669-	-81.337/V	1.794	0.090
6406	-9.726-	-75.384/V	1.824	0.090
6405	-9.205-	-71.849/V	1.804	0.087
6404	-8.994-	-70.242/V	1.769	0.088
6402	-8.782-	-68.962/V	1.785	0.092
6204	7.442-	29.717/V	2.889	0.089
6203	8.040-	33.519/V	2.905	0.085
6202	8.060-	33.775/V	2.885	0.085
6201	8.609-	37.206/V	2.909	0.085
32	15.563-	98.036/V	0.542	0.093
21	13.114-	87.528/V	-0.297	0.090
22	17.307-	114.168/V	-0.186	0.087
23	17.227-	109.970/V	0.378	0.089
24	18.913-	119.949/V	0.534	0.086
48	4.104-	25.156/V	0.250	0.090
47	10.214-	65.907/V	0.115	0.099
26	20.597-	128.968/V	0.836	0.087
27	23.206-	146.528/V	0.755	0.090
28	23.910-	150.983/V	0.777	0.093
30	27.660-	175.265/V	0.806	0.093
31	29.743-	189.889/V	0.648	0.094
25	19.768-	124.398/V	0.708	0.089
49	3.040-	20.390/V	-0.084	0.097
44	15.022-	101.890/V	-0.589	0.093
37	0.000-	0.000/V	0.000	0.071

SOLUTION FOR DATA SET 2054 (CONTINUED)

		CIJ	DIJ	DIJX2	DELIJ
6401	32	14.995	97.234	9454.414	0.097
6407	21	0.105	0.819	0.671	-0.021
6406	21	0.112	0.846	0.716	-0.018
6405	21	0.051	0.281	0.079	0.008
6405	21	0.001	0.321	0.103	-0.048
6405	21	0.051	0.321	0.103	0.002
6404	21	0.069	0.215	0.046	0.037
6401	21	-0.946	-6.308	39.785	0.020
6402	21	0.558	3.505	12.283	0.021
6407	22	-2.558	-16.591	275.264	-0.016
6406	22	-2.581	-16.694	278.687	-0.023
6405	22	-2.672	-17.309	299.605	-0.020
6405	22	-2.652	-17.269	298.222	-0.006
6405	22	-2.672	-17.269	298.222	-0.026
6404	22	-2.663	-17.396	302.607	0.002
6401	22	-3.639	-23.968	574.449	0.034
6402	22	-2.155	-14.135	199.810	0.011
6407	23	0.271	1.486	2.209	0.044
6406	23	0.229	1.484	2.201	0.001
6405	23	0.147	0.898	0.807	0.010
6405	23	0.157	0.928	0.862	0.015
6405	23	0.127	0.928	0.862	-0.015
6404	23	0.116	0.822	0.675	-0.010
6404	23	0.106	0.822	0.675	-0.020
6401	23	-0.869	-5.740	32.950	0.010
6401	23	-0.869	-5.720	32.721	0.007
6402	23	0.584	4.092	16.744	-0.043
6407	24	-0.094	-0.712	0.506	0.015
6406	24	-0.087	-0.705	0.496	0.021
6405	24	-0.168	-1.290	1.663	0.030
6405	24	-0.178	-1.250	1.562	0.014
6405	24	-0.178	-1.250	1.562	0.014
6404	24	-0.189	-1.366	1.867	0.020
6404	24	-0.189	-1.366	1.867	0.020
6401	24	-1.155	-7.928	62.857	0.060
6401	24	-1.125	-7.928	62.857	0.090
6401	24	-1.155	-7.898	62.383	0.055
6204	48	-0.937	-6.243	38.975	0.020
6203	48	-0.535	-3.345	11.188	-0.022
6202	48	0.465	3.160	9.984	-0.019
6201	48	1.006	6.428	41.319	0.021
6202	32	-7.803	-50.461	2546.318	-0.071
6201	32	-7.192	-46.773	2187.691	-0.026
6204	47	-0.346	-1.674	2.803	-0.089
6203	47	0.346	1.674	2.803	0.089
6201	26	-2.276	-16.074	258.374	0.187
6204	24	0.015	0.354	0.125	-0.039
6203	24	0.477	3.902	15.229	-0.121
6202	24	1.607	10.917	119.178	-0.065
6201	24	2.088	14.605	213.311	-0.150
6204	22	4.341	28.075	788.194	0.039
6203	22	4.833	31.613	999.381	-0.011
6202	22	5.963	38.627	1492.082	0.045
6201	22	6.454	42.316	1790.624	-0.030

SOLUTION FOR DATA SET 2054 (CONTINUED)

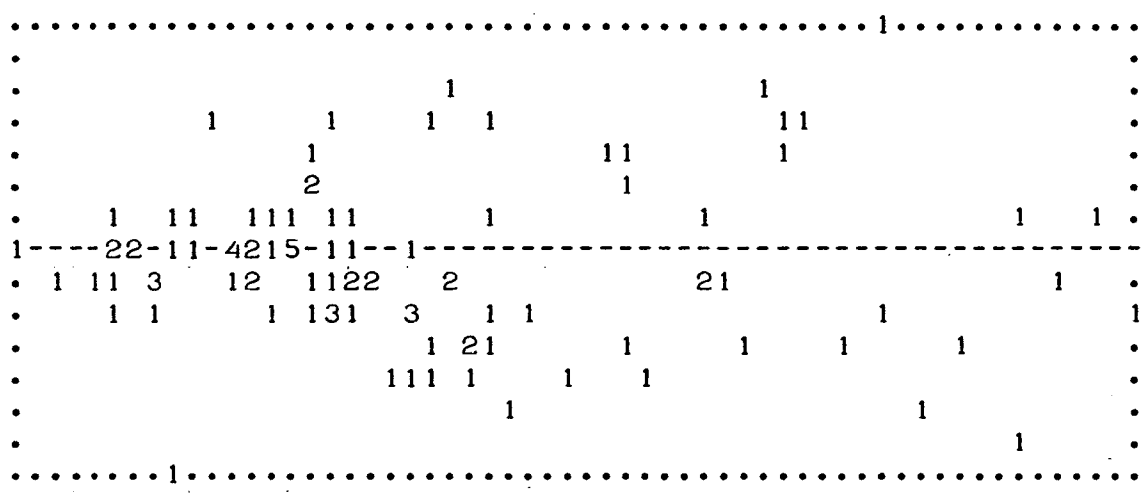
6407	26	1.772	11.779	138.748	-0.033
6406	26	1.729	11.806	139.388	-0.080
6405	26	1.688	11.241	126.362	-0.034
6405	26	1.638	11.271	127.037	-0.089
6405	26	1.688	11.271	127.037	-0.039
6404	26	1.657	11.165	124.648	-0.054
6401	26	0.611	4.643	21.553	-0.100
6407	27	0.153	1.229	1.511	-0.035
6406	27	0.300	1.266	1.603	0.106
6405	27	0.249	0.691	0.478	0.143
6405	27	0.089	0.731	0.534	-0.023
6405	27	0.109	0.731	0.534	-0.003
6404	27	0.038	0.625	0.390	-0.058
6404	27	0.018	0.625	0.390	-0.078
6401	27	-0.958	-5.898	34.781	-0.054
6405	28	0.215	1.656	2.743	-0.039
6404	28	0.343	1.590	2.527	0.100
6401	28	-0.862	-4.942	24.426	-0.105
6405	30	0.195	1.684	2.835	-0.063
6405	30	0.345	1.684	2.835	0.087
6404	30	0.303	1.577	2.488	0.062
6401	30	-0.842	-4.945	24.451	-0.085
6405	31	0.252	1.660	2.754	-0.003
6405	31	0.292	1.660	2.754	0.037
6405	31	0.242	1.660	2.754	-0.013
6401	31	-0.785	-4.979	24.790	-0.022
6402	24	0.329	1.914	3.663	0.036
6407	25	0.350	1.989	3.957	0.046
6406	25	0.298	1.996	3.985	-0.008
6405	25	0.326	1.421	2.019	0.109
6405	25	0.176	1.451	2.106	-0.046
6405	25	0.176	1.451	2.106	-0.046
6404	25	0.215	1.345	1.808	0.009
6404	25	0.175	1.345	1.808	-0.031
6401	25	-0.820	-5.217	27.222	-0.021
6401	25	-0.780	-5.217	27.222	0.019
6401	25	-0.800	-5.187	26.910	-0.006
6402	25	0.683	4.625	21.388	-0.025
6405	28	0.305	1.696	2.877	0.045
6204	26	-4.519	-30.325	919.605	0.127
6203	26	-3.987	-26.777	716.998	0.115
6201	49	-0.850	-5.266	27.729	-0.043
6202	49	0.850	5.266	27.729	0.043
6202	44	-1.373	-8.604	74.034	-0.054
6203	44	-0.073	-1.209	1.461	0.112
6204	44	1.445	9.813	96.296	-0.058
6203	37	-1.060	-5.859	34.329	-0.163
6202	37	0.290	1.095	1.200	0.122
6201	37	0.771	4.764	22.693	0.041

SOLUTION FOR DATA SET 2054 (CONTINUED)

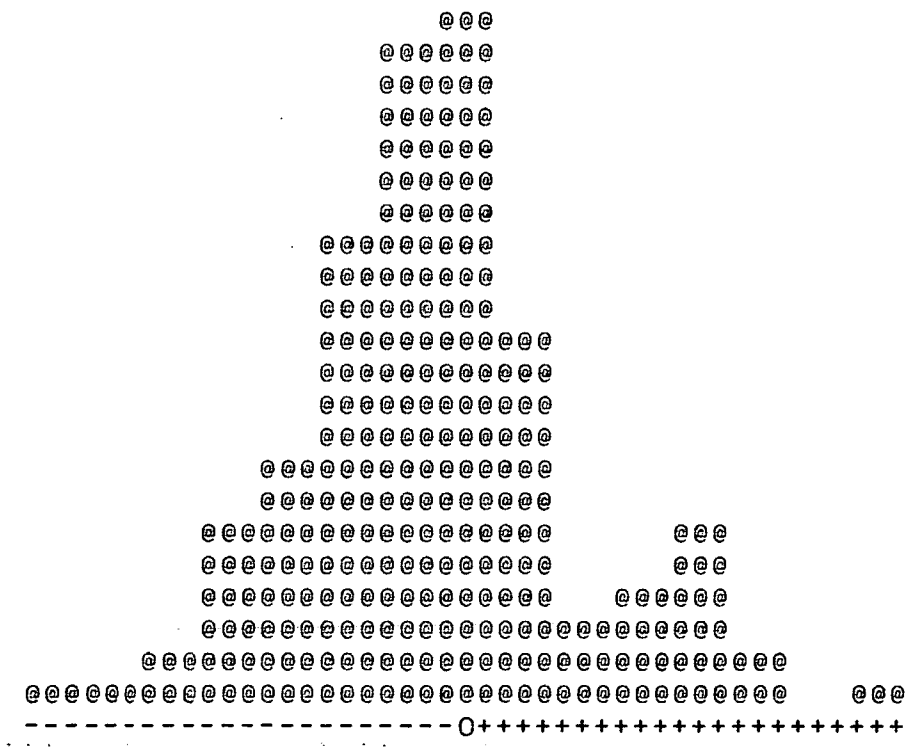
LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
6401	16	5.840@ -2	6.240@ -2	1.560@ -2	8.748@ -2
6407	7	7.210@ -3	3.467@ -2	1.310@ -2	8.987@ -2
6406	7	1.906@ -2	5.636@ -2	2.130@ -2	8.987@ -2
6405	28	6.966@ -2	5.079@ -2	9.599@ -3	8.699@ -2
6404	13	2.968@ -2	4.974@ -2	1.379@ -2	8.822@ -2
6402	5	4.286@ -3	3.273@ -2	1.464@ -2	9.162@ -2
6204	6	3.107@ -2	7.883@ -2	3.218@ -2	8.932@ -2
6203	7	7.568@ -2	1.123@ -1	4.245@ -2	8.547@ -2
6202	7	3.138@ -2	7.232@ -2	2.733@ -2	8.515@ -2
6201	7	6.276@ -2	1.023@ -1	3.866@ -2	8.521@ -2
32	3	1.515@ -2	8.702@ -2	5.024@ -2	9.266@ -2
21	8	5.340@ -3	2.762@ -2	9.765@ -3	8.981@ -2
22	12	7.683@ -3	2.643@ -2	7.629@ -3	8.668@ -2
23	10	4.901@ -3	2.333@ -2	7.379@ -3	8.907@ -2
24	15	6.182@ -2	6.645@ -2	1.716@ -2	8.649@ -2
48	4	1.697@ -3	2.378@ -2	1.189@ -2	8.989@ -2
47	2	1.597@ -2	1.264@ -1	8.937@ -2	9.883@ -2
26	10	9.535@ -2	1.029@ -1	3.255@ -2	8.750@ -2
27	8	4.591@ -2	8.099@ -2	2.863@ -2	8.985@ -2
28	4	2.450@ -2	9.038@ -2	4.519@ -2	9.339@ -2
30	4	2.248@ -2	8.657@ -2	4.328@ -2	9.339@ -2
31	4	2.062@ -3	2.621@ -2	1.311@ -2	9.357@ -2
25	11	2.068@ -2	4.548@ -2	1.371@ -2	8.880@ -2
49	2	3.671@ -3	6.059@ -2	4.284@ -2	9.700@ -2
44	3	1.894@ -2	9.731@ -2	5.618@ -2	9.291@ -2
37	4	4.303@ -2	1.198@ -1	5.988@ -2	7.109@ -2

LOCATION		DBAR	SDTV	1SDTV	2SDTV
6401	16	65.65	2.904@ -2	9.217@ -2	3.297@ -2
6407	7	37.45	1.657@ -2	9.139@ -2	2.112@ -2
6406	7	43.40	1.920@ -2	9.190@ -2	2.868@ -2
6405	28	60.89	2.694@ -2	9.106@ -2	2.859@ -2
6404	13	57.34	2.537@ -2	9.180@ -2	2.887@ -2
6402	5	42.24	1.869@ -2	9.351@ -2	2.374@ -2
6204	6	122.39	5.414@ -2	1.044@ -1	6.298@ -2
6203	7	112.95	4.997@ -2	9.901@ -2	6.556@ -2
6202	7	102.29	4.525@ -2	9.642@ -2	5.286@ -2
6201	7	109.59	4.848@ -2	9.803@ -2	6.200@ -2
32	3	100.99	4.467@ -2	1.029@ -1	6.723@ -2
21	8	15.83	7.002@ -3	9.008@ -2	1.202@ -2
22	12	77.55	3.431@ -2	9.322@ -2	3.514@ -2
23	10	39.38	1.742@ -2	9.075@ -2	1.892@ -2
24	15	77.69	3.437@ -2	9.307@ -2	3.841@ -2
48	4	58.71	2.597@ -2	9.357@ -2	2.856@ -2
47	2	97.52	4.314@ -2	1.078@ -1	9.923@ -2
26	10	88.55	3.917@ -2	9.586@ -2	5.093@ -2
27	8	74.67	3.303@ -2	9.573@ -2	4.371@ -2
28	4	81.97	3.626@ -2	1.002@ -1	5.794@ -2
30	4	106.25	4.700@ -2	1.046@ -1	6.389@ -2
31	4	120.47	5.329@ -2	1.077@ -1	5.488@ -2
25	11	54.57	2.414@ -2	9.202@ -2	2.776@ -2
49	2	55.88	2.472@ -2	1.001@ -1	4.946@ -2
44	3	134.23	5.938@ -2	1.103@ -1	8.174@ -2
37	4	26.12	1.156@ -2	7.203@ -2	6.099@ -2

DATA SET 2054 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 193.69
RANGE OF Y AXIS IS -0.163 TO 0.187



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.163 TO 0.187

DATA SET 2055

80	12	25	68	8	18
6202	32	17.48	84.69	1	1
6201	32	18.26	91.45	2	1
6204	47	18.73	98.51	3	2
6203	47	19.66	105.52	4	2
6204	24	26.23	156.90	3	3
6203	24	27.13	164.11	4	3
6201	24	28.84	177.68	2	3
6204	22	28.18	178.72	3	4
6203	22	29.05	185.92	4	4
6201	22	30.81	199.49	2	4
6201	44	20.61	116.33	2	5
6202	44	21.48	122.97	1	5
6203	44	22.47	129.65	4	5
6204	44	23.36	136.73	3	5
6405	27	16.43	75.37	5	6
6405	27	16.40	75.41	5	6
6405	27	16.40	75.41	5	6
6404	27	16.46	76.70	6	6
6401	27	16.72	78.27	7	6
6401	27	16.73	78.30	7	6
6405	28	17.00	81.43	5	7
6404	28	17.10	82.72	6	7
6404	28	17.11	82.72	6	7
6401	28	17.26	84.32	7	7
6405	29	18.26	94.03	5	8
6405	29	18.27	94.04	5	8
6405	29	18.24	94.03	5	8
6405	30	19.94	106.38	5	9
6405	30	19.79	106.38	5	9
6404	30	19.98	107.63	6	9
6401	30	20.18	109.23	7	9
6405	31	21.80	121.26	5	10
6405	31	21.83	121.26	5	10
6405	31	21.84	121.26	5	10
6404	31	21.80	122.51	6	10
6401	31	22.11	124.10	7	10
6405	33	24.12	141.93	5	11
6401	33	24.51	144.78	7	11
6405	34	26.38	159.24	5	12
6405	38	46.50	326.73	5	13
6401	38	46.76	329.57	7	13
6405	39	46.75	328.83	5	14
6405	39	46.65	328.83	5	14
6401	39	47.06	331.68	7	14
6401	39	46.82	331.68	7	14
6404	40	50.27	355.77	6	15
6401	40	50.40	357.37	7	15
6501	34	25.85	152.93	8	12
6501	33	28.42	174.18	8	11
6501	32	29.56	184.30	8	1

DATA SET 2055 (CONTINUED)

6501	31	30.43	190.61	8	10
6501	30	32.39	205.79	8	9
6501	29	33.74	218.13	8	8
6501	35	25.27	147.32	8	16
6201	26	26.78	155.19	2	17
6202	24	28.33	170.92	1	3
6203	26	24.97	141.62	4	17
6204	26	23.92	134.41	3	17
6405	28	16.95	81.15	5	7
6405	35	27.26	164.88	5	16
6405	37	29.49	182.84	5	18
6405	37	29.50	182.84	5	18
6401	37	29.73	185.69	7	18
6405	34	26.40	159.23	5	12
6405	34	26.46	159.24	5	12
6405	34	26.38	159.24	5	12
6404	34	26.60	160.49	6	12
6401	34	26.82	162.09	7	12

SOLUTION FOR DATA SET 2055

V= 8.068 SD V= 4.702@ -2
1/V= 0.1239 SD 1/V= 7.224@ -4

SUM OF SQUARED RESIDUALS= 2.677@ -1

SD OF T= 7.983@ -2

SUMDIJX2= 12214.443

LOCATION	TIME TERMS		SD OF TT
6202	24.286- 137.418/V	7.254	0.143
6201	24.939- 143.452/V	7.158	0.143
6204	23.541- 132.541/V	7.112	0.149
6203	24.113- 136.851/V	7.150	0.149
6405	29.457- 182.690/V	6.813	0.093
6404	29.501- 183.527/V	6.753	0.099
6401	29.807- 185.990/V	6.754	0.094
6501	36.303- 236.665/V	6.969	0.100
32	-6.743- -52.365/V	-0.252	0.128
47	-4.632- -32.681/V	-0.581	0.157
24	3.413- 29.837/V	-0.285	0.147
22	5.149- 50.428/V	-1.101	0.151
44	-2.240- -11.146/V	-0.858	0.147
27	-13.057--107.353/V	0.249	0.098
28	-12.460--101.217/V	0.085	0.100
29	-9.041- -71.126/V	-0.225	0.101
30	-8.449- -67.230/V	-0.116	0.099
31	-7.362- -58.875/V	-0.064	0.098
33	-6.172- -48.152/V	-0.204	0.104
34	-4.078- -32.069/V	-0.103	0.097
38	16.998- 143.810/V	-0.827	0.108
39	17.188- 145.915/V	-0.897	0.101
40	20.681- 171.812/V	-0.614	0.110
35	-6.615- -53.578/V	0.026	0.110
26	1.026- 6.125/V	0.267	0.151
37	0.000- 0.000/V	0.000	0.080

		CIJ	DIJ	DIJX2	DELIJ
6202	32	-0.064	-0.363	0.132	-0.019
6201	32	0.064	0.363	0.132	0.019
6204	47	-0.179	-1.350	1.823	-0.012
6203	47	0.179	1.350	1.822	0.012
6204	24	-0.723	-5.478	30.010	-0.044
6203	24	-0.395	-2.578	6.647	-0.076
6201	24	0.488	4.391	19.282	-0.056
6204	22	-0.510	-4.250	18.060	0.017
6203	22	-0.212	-1.360	1.849	-0.043
6201	22	0.722	5.610	31.467	0.027
6201	44	-2.089	-15.976	255.245	-0.109
6202	44	-0.567	-3.302	10.905	-0.158
6203	44	0.597	3.944	15.558	0.108
6204	44	2.059	15.334	235.142	0.158

SOLUTION FOR DATA SET 2055 (CONTINUED)

6405	27	0.031	0.033	0.001	0.027
6405	27	0.001	0.073	0.005	-0.008
6405	27	0.001	0.073	0.005	-0.008
6404	27	0.017	0.526	0.276	-0.049
6401	27	-0.029	-0.367	0.135	0.016
6401	27	-0.019	-0.337	0.114	0.023
6405	28	0.004	-0.043	0.002	0.009
6404	28	0.060	0.410	0.168	0.009
6404	28	0.070	0.410	0.168	0.019
6401	28	-0.086	-0.453	0.205	-0.030
6405	29	-2.156	-17.534	307.433	0.017
6405	29	-2.146	-17.524	307.082	0.026
6405	29	-2.176	-17.534	307.433	-0.003
6405	30	-1.068	-9.080	82.441	0.057
6405	30	-1.218	-9.080	82.441	-0.093
6404	30	-1.072	-8.667	75.111	0.002
6401	30	-1.178	-9.529	90.808	0.003
6405	31	-0.295	-2.555	6.527	0.022
6405	31	-0.265	-2.555	6.527	0.052
6405	31	-0.255	-2.555	6.527	0.062
6404	31	-0.339	-2.142	4.587	-0.074
6401	31	-0.335	-3.014	9.086	0.039
6405	33	0.835	7.392	54.635	-0.081
6401	33	0.875	6.942	48.190	0.015
6405	34	1.001	8.619	74.284	-0.067
6405	38	0.045	0.230	0.053	0.016
6401	38	-0.045	-0.230	0.053	-0.016
6405	39	0.105	0.225	0.051	0.077
6405	39	0.005	0.225	0.051	-0.023
6401	39	0.065	-0.225	0.051	0.093
6401	39	-0.175	-0.225	0.051	-0.147
6404	40	0.088	0.431	0.186	0.034
6401	40	-0.088	-0.431	0.186	-0.034
6501	34	-6.375	-51.666	2669.390	0.029
6501	33	-1.711	-14.333	205.447	0.066
6501	32	-0.000	-0.000	0.000	-0.000
6501	31	1.489	12.820	164.361	-0.100
6501	30	4.536	36.355	1321.714	0.030
6501	29	6.478	52.591	2765.845	-0.040
6501	35	-4.418	-35.767	1279.312	0.015
6201	26	0.815	5.613	31.504	0.119
6202	24	0.631	3.665	13.434	0.176
6203	26	-0.169	-1.356	1.840	-0.000
6204	26	-0.647	-4.256	18.117	-0.119
6405	28	-0.046	-0.323	0.105	-0.006
6405	35	4.418	35.767	1279.312	-0.015
6405	37	0.033	0.150	0.022	0.015
6405	37	0.043	0.150	0.022	0.025
6401	37	-0.077	-0.300	0.090	-0.039
6405	34	1.021	8.609	74.111	-0.046
6405	34	1.081	8.619	74.284	0.013
6405	34	1.001	8.619	74.284	-0.067
6404	34	1.177	9.032	81.574	0.058
6401	34	1.092	8.169	66.735	0.079

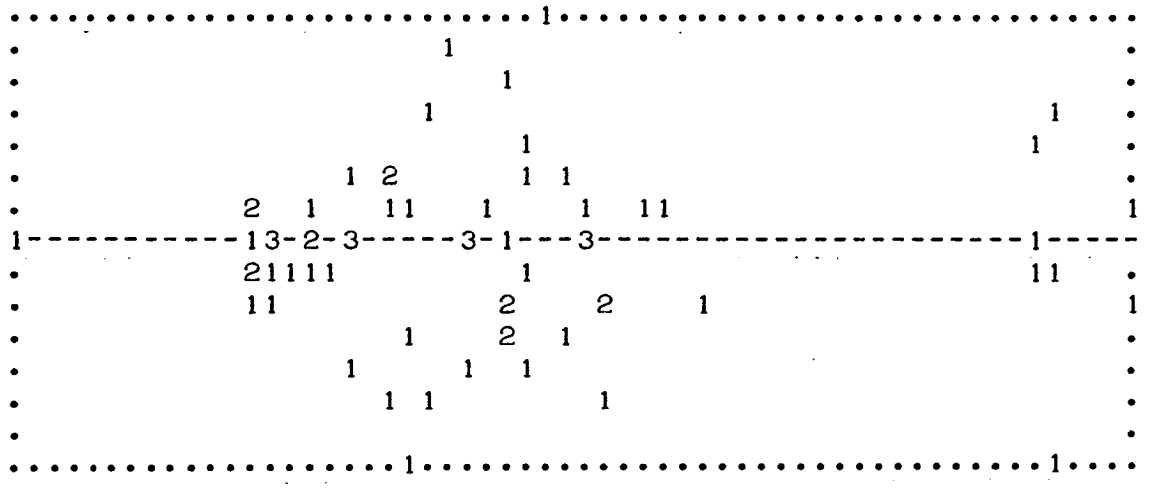
SOLUTION FOR DATA SET 2055 (CONTINUED)

LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
6202	3	5.628@ -2	1.677@ -1	9.685@ -2	1.431@ -1
6201	5	3.035@ -2	8.710@ -2	3.895@ -2	1.431@ -1
6204	5	4.164@ -2	1.020@ -1	4.563@ -2	1.491@ -1
6203	5	1.948@ -2	6.978@ -2	3.121@ -2	1.491@ -1
6405	24	4.629@ -2	4.486@ -2	9.158@ -3	9.272@ -2
6404	7	1.275@ -2	4.610@ -2	1.742@ -2	9.891@ -2
6401	12	4.293@ -2	6.247@ -2	1.803@ -2	9.432@ -2
6501	7	1.798@ -2	5.473@ -2	2.069@ -2	9.985@ -2
32	3	7.097@ -4	1.884@ -2	1.088@ -2	1.278@ -1
47	2	2.724@ -4	1.651@ -2	1.167@ -2	1.574@ -1
24	4	4.198@ -2	1.183@ -1	5.915@ -2	1.471@ -1
22	3	2.872@ -3	3.790@ -2	2.188@ -2	1.511@ -1
44	4	7.346@ -2	1.565@ -1	7.824@ -2	1.471@ -1
27	6	3.974@ -3	2.819@ -2	1.151@ -2	9.798@ -2
28	5	1.460@ -3	1.910@ -2	8.543@ -3	9.989@ -2
29	4	2.620@ -3	2.955@ -2	1.478@ -2	1.012@ -1
30	5	1.278@ -2	5.653@ -2	2.528@ -2	9.947@ -2
31	6	2.384@ -2	6.905@ -2	2.819@ -2	9.823@ -2
33	3	1.111@ -2	7.455@ -2	4.304@ -2	1.039@ -1
34	7	2.165@ -2	6.008@ -2	2.271@ -2	9.737@ -2
38	2	5.412@ -4	2.326@ -2	1.645@ -2	1.082@ -1
39	4	3.673@ -2	1.107@ -1	5.533@ -2	1.006@ -1
40	2	2.376@ -3	4.875@ -2	3.447@ -2	1.101@ -1
35	2	4.692@ -4	2.166@ -2	1.532@ -2	1.100@ -1
26	3	2.845@ -2	1.193@ -1	6.886@ -2	1.511@ -1
37	4	2.382@ -3	2.818@ -2	1.409@ -2	7.983@ -2

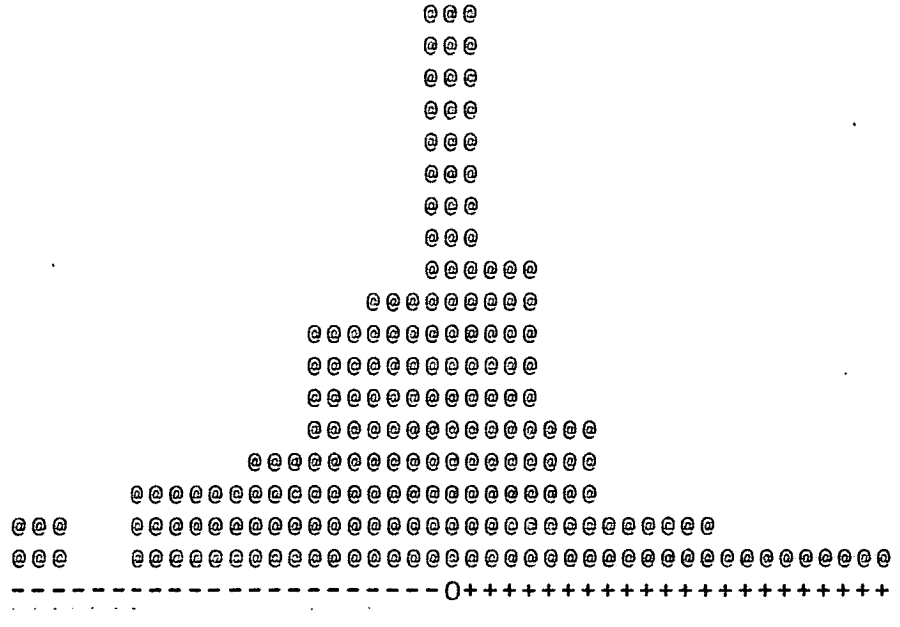
SOLUTION FOR DATA SET 2055 (CONTINUED)

LOCATION		DBAR	SDTV	1SDTV	2SDTV
6202	3	126.19	9.116@ -2	1.696@ -1	1.330@ -1
6201	5	148.03	1.069@ -1	1.786@ -1	1.138@ -1
6204	5	141.05	1.019@ -1	1.806@ -1	1.116@ -1
6203	5	145.36	1.050@ -1	1.824@ -1	1.095@ -1
6405	24	147.55	1.066@ -1	1.413@ -1	1.070@ -1
6404	7	141.22	1.020@ -1	1.421@ -1	1.035@ -1
6401	12	193.09	1.395@ -1	1.684@ -1	1.406@ -1
6501	7	181.89	1.314@ -1	1.650@ -1	1.330@ -1
32	3	120.15	8.679@ -2	1.545@ -1	8.747@ -2
47	2	102.01	7.369@ -2	1.738@ -1	7.461@ -2
24	4	167.40	1.209@ -1	1.904@ -1	1.346@ -1
22	3	188.04	1.358@ -1	2.032@ -1	1.376@ -1
44	4	126.42	9.132@ -2	1.731@ -1	1.203@ -1
27	6	76.58	5.532@ -2	1.125@ -1	5.650@ -2
28	5	82.47	5.957@ -2	1.163@ -1	6.018@ -2
29	4	125.06	9.034@ -2	1.357@ -1	9.154@ -2
30	5	127.08	9.180@ -2	1.354@ -1	9.522@ -2
31	6	133.50	9.643@ -2	1.377@ -1	1.005@ -1
33	3	153.63	1.110@ -1	1.520@ -1	1.190@ -1
34	7	158.92	1.148@ -1	1.505@ -1	1.170@ -1
38	2	328.15	2.370@ -1	2.606@ -1	2.376@ -1
39	4	330.25	2.386@ -1	2.589@ -1	2.449@ -1
40	2	356.57	2.576@ -1	2.801@ -1	2.599@ -1
35	2	156.10	1.128@ -1	1.575@ -1	1.138@ -1
26	3	143.74	1.038@ -1	1.834@ -1	1.246@ -1
37	4	137.84	9.957@ -2	1.276@ -1	1.006@ -1

DATA SET 2055 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 357.37
RANGE OF Y AXIS IS -0.158 TO 0.176



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.158 TO 0.176

DATA SET 2056

40	20	3	32	16	2
112	5	24.15	148.50	1	1
112	6	28.30	183.60	1	2
106	5	24.38	150.20	2	1
106	6	25.00	154.90	2	2
114	5	24.57	150.40	3	1
114	6	32.20	212.10	3	2
113	5	24.31	150.60	4	1
113	6	30.60	200.30	4	2
115	5	24.61	150.70	5	1
115	6	33.90	225.30	5	2
116	5	27.89	174.20	6	1
116	6	38.40	258.20	6	2
105	5	27.60	175.50	7	1
105	6	27.60	176.20	7	2
104	5	30.72	200.00	8	1
104	6	30.00	197.80	8	2
103	5	33.71	225.90	9	1
103	6	33.20	220.90	9	2
102	5	36.92	249.60	10	1
102	6	35.70	243.10	10	2
101	5	43.84	300.40	11	1
101	6	43.10	290.90	11	2
118	5	49.60	348.40	12	1
118	6	48.00	336.80	12	2
211	5	22.08	133.30	13	1
211	6	28.40	180.60	13	2
207	5	24.56	150.60	14	1
207	6	22.20	131.30	14	2
205	5	25.03	151.20	15	1
205	6	28.00	175.80	15	2
203	5	31.48	200.50	16	1
203	6	35.80	240.30	16	2

SOLUTION FOR DATA SET 2056

V= 7.987 SD V= 1.452@ -1
1/V= 0.1252 SD 1/V= 2.276@ -3

SUM OF SQUARED RESIDUALS= 6.085@ -1

SD OF T= 2.085@ -1

SUMDIJX2= 8390.005

LOCATION	TIME TERMS			SD OF TT
112	27.630-	177.553/V	5.400	0.258
106	26.095-	164.053/V	5.555	0.258
114	29.790-	192.753/V	5.657	0.258
113	28.860-	186.953/V	5.453	0.258
115	30.660-	199.503/V	5.682	0.258
116	34.550-	227.703/V	6.041	0.258
105	29.005-	187.353/V	5.548	0.258
104	31.765-	210.403/V	5.422	0.258
103	34.860-	234.903/V	5.450	0.258
102	37.715-	257.853/V	5.432	0.258
101	44.875-	307.153/V	6.419	0.258
118	50.205-	354.103/V	5.871	0.258
211	26.645-	168.453/V	5.555	0.258
207	24.785-	152.453/V	5.698	0.258
205	27.920-	175.003/V	6.009	0.258
203	35.045-	231.903/V	6.011	0.258
5	-2.809-	-23.006/V	0.071	0.221
6	0.000-	0.000/V	0.000	0.208

SOLUTION FOR DATA SET 2056 (CONTINUED)

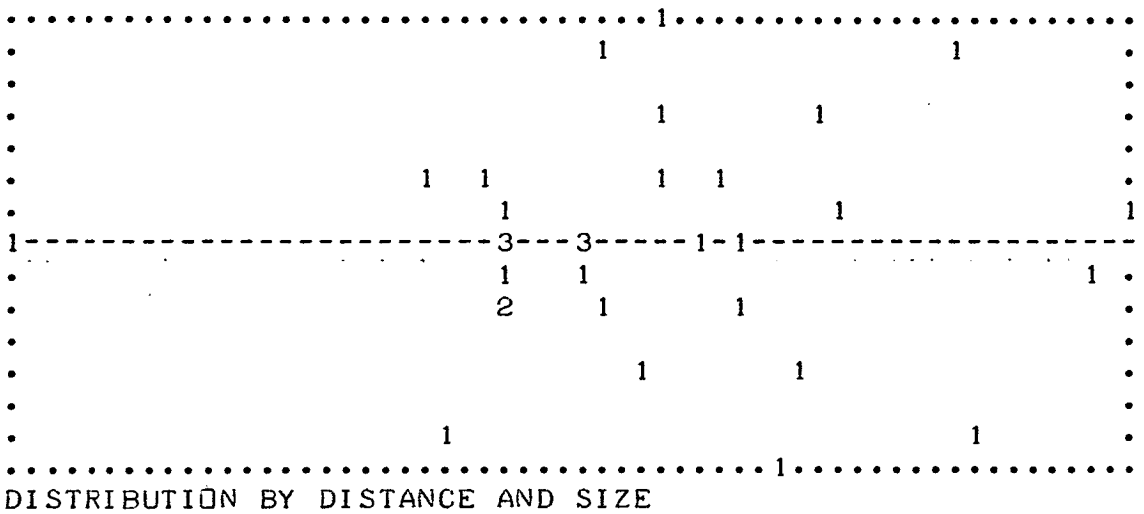
		CIJ	DIJ	DIJX2	DELIJ
112	5	-0.670	-6.047	36.565	0.087
112	6	0.670	6.047	36.565	-0.087
106	5	1.095	9.153	83.780	-0.051
106	6	-1.095	-9.153	83.780	0.051
114	5	-2.410	-19.347	374.302	0.012
114	6	2.410	19.347	374.302	-0.012
113	5	-1.740	-13.347	178.139	-0.069
113	6	1.740	13.347	178.139	0.069
115	5	-3.240	-25.797	665.479	-0.011
115	6	3.240	25.797	665.479	0.011
116	5	-3.850	-30.497	930.059	-0.032
116	6	3.850	30.497	930.059	0.032
105	5	1.405	11.153	124.392	0.008
105	6	-1.405	-11.153	124.392	-0.008
104	5	1.765	12.603	158.839	0.187
104	6	-1.765	-12.603	158.839	-0.187
103	5	1.660	14.003	196.088	-0.093
103	6	-1.660	-14.003	196.088	0.093
102	5	2.015	14.753	217.655	0.168
102	6	-2.015	-14.753	217.655	-0.168
101	5	1.775	16.253	264.164	-0.260
101	6	-1.775	-16.253	264.164	0.260
118	5	2.205	17.303	299.398	0.038
118	6	-2.205	-17.303	299.398	-0.038
211	5	-1.755	-12.147	147.547	-0.235
211	6	1.755	12.147	147.547	0.235
207	5	2.585	21.153	447.455	-0.064
207	6	-2.585	-21.153	447.455	0.064
205	5	-0.080	-0.797	0.635	0.019
205	6	0.080	0.797	0.635	-0.019
203	5	-0.755	-8.397	70.508	0.296
203	6	0.755	8.397	70.508	-0.296

SOLUTION FOR DATA SET 2056 (CONTINUED)

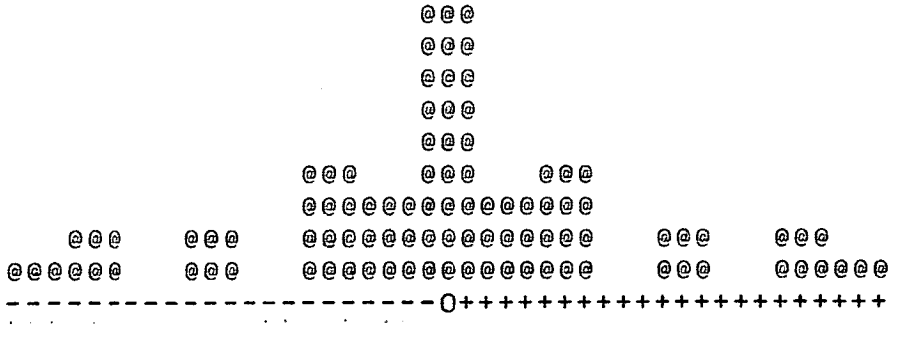
LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
112	2	1.505@ -2	1.227@ -1	8.675@ -2	2.580@ -1
106	2	5.258@ -3	7.251@ -2	5.128@ -2	2.580@ -1
114	2	2.832@ -4	1.683@ -2	1.190@ -2	2.580@ -1
113	2	9.604@ -3	9.800@ -2	6.930@ -2	2.580@ -1
115	2	2.233@ -4	1.494@ -2	1.057@ -2	2.580@ -1
116	2	2.065@ -3	4.544@ -2	3.213@ -2	2.580@ -1
105	2	1.387@ -4	1.178@ -2	8.326@ -3	2.580@ -1
104	2	6.978@ -2	2.642@ -1	1.868@ -1	2.580@ -1
103	2	1.748@ -2	1.322@ -1	9.349@ -2	2.580@ -1
102	2	5.619@ -2	2.370@ -1	1.676@ -1	2.580@ -1
101	2	1.354@ -1	3.680@ -1	2.602@ -1	2.580@ -1
118	2	2.942@ -3	5.424@ -2	3.835@ -2	2.580@ -1
211	2	1.100@ -1	3.317@ -1	2.345@ -1	2.580@ -1
207	2	8.106@ -3	9.004@ -2	6.366@ -2	2.580@ -1
205	2	7.570@ -4	2.751@ -2	1.946@ -2	2.580@ -1
203	2	1.752@ -1	4.186@ -1	2.960@ -1	2.580@ -1
5	16	3.042@ -1	1.424@ -1	3.560@ -2	2.211@ -1
6	17	3.042@ -1	1.379@ -1	3.344@ -2	2.085@ -1

LOCATION		DBAR	SDTV	1SDTV	2SDTV
112	2	166.05	3.779@ -1	4.576@ -1	3.878@ -1
106	2	152.55	3.472@ -1	4.326@ -1	3.510@ -1
114	2	181.25	4.125@ -1	4.866@ -1	4.127@ -1
113	2	175.45	3.993@ -1	4.754@ -1	4.053@ -1
115	2	188.00	4.279@ -1	4.996@ -1	4.280@ -1
116	2	216.20	4.921@ -1	5.556@ -1	4.931@ -1
105	2	175.85	4.002@ -1	4.762@ -1	4.003@ -1
104	2	198.90	4.527@ -1	5.210@ -1	4.897@ -1
103	2	223.40	5.085@ -1	5.702@ -1	5.170@ -1
102	2	246.35	5.607@ -1	6.172@ -1	5.852@ -1
101	2	295.65	6.729@ -1	7.207@ -1	7.215@ -1
118	2	342.60	7.798@ -1	8.213@ -1	7.807@ -1
211	2	156.95	3.572@ -1	4.406@ -1	4.273@ -1
207	2	140.95	3.208@ -1	4.117@ -1	3.271@ -1
205	2	163.50	3.721@ -1	4.528@ -1	3.726@ -1
203	2	220.40	5.016@ -1	5.641@ -1	5.824@ -1
5	16	191.25	4.353@ -1	4.882@ -1	4.367@ -1
6	17	201.65	4.590@ -1	5.041@ -1	4.602@ -1

DATA SET 2056 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 348.40
RANGE OF Y AXIS IS -0.296 TO 0.296



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.296 TO 0.296

DATA SET 2063

50	25	4	46	23	2
111	5	15.61	91.20	1	1
111	6	19.40	111.00	1	2
110	5	17.08	101.30	2	1
110	6	20.30	117.60	2	2
108	5	20.34	121.30	3	1
108	6	22.60	131.60	3	2
112	5	24.65	148.50	4	1
112	6	30.70	183.60	4	2
106	5	25.17	150.20	5	1
106	6	26.50	154.90	5	2
114	5	25.08	150.40	6	1
114	6	36.00	212.10	6	2
113	5	24.96	150.60	7	1
113	6	32.90	200.30	7	2
115	5	25.57	150.70	8	1
115	6	37.20	225.30	8	2
107	5	26.05	151.20	9	1
107	6	21.80	126.90	9	2
116	5	29.23	174.20	10	1
116	6	42.70	258.20	10	2
105	5	29.64	175.50	11	1
105	6	29.90	176.20	11	2
103	5	37.50	225.90	12	1
103	6	36.70	220.90	12	2
101	5	49.80	300.40	13	1
101	6	47.40	290.90	13	2
201	5	15.66	92.00	14	1
201	6	25.10	145.10	14	2
213	5	17.01	100.60	15	1
213	6	26.10	152.80	15	2
212	5	18.79	112.20	16	1
212	6	27.90	162.30	16	2
214	5	20.39	120.20	17	1
214	6	29.20	168.80	17	2
211	5	22.49	133.30	18	1
211	6	30.30	180.60	18	2
206	5	25.42	150.30	19	1
206	6	26.30	153.40	19	2
209	5	25.69	150.30	20	1
209	6	15.00	84.30	20	2
207	5	25.33	150.60	21	1
207	6	23.10	131.30	21	2
210	5	26.01	151.50	22	1
210	6	12.80	67.90	22	2
208	5	25.99	154.30	23	1
208	6	19.30	110.20	23	2

SOLUTION FOR DATA SET 2063

V= 6.117 SD V= 9.006@ -2
1/V= 0.1635 SD 1/V= 2.407@ -3

SUM OF SQUARED RESIDUALS= 2.575@ 0

SD OF T= 3.502@ -1

SUMDIJX2= 21164.364

LOCATION	TIME TERMS			SD OF TT
111	18.934-	108.915/V	1.128	0.432
110	20.119-	117.265/V	0.948	0.432
108	22.899-	134.265/V	0.949	0.432
112	29.104-	173.865/V	0.680	0.432
106	27.264-	160.365/V	1.047	0.432
114	31.969-	189.065/V	1.060	0.432
113	30.359-	183.265/V	0.398	0.432
115	32.814-	195.815/V	0.802	0.432
107	25.354-	146.865/V	1.344	0.432
116	37.394-	224.015/V	0.771	0.432
105	31.199-	183.665/V	1.173	0.432
103	38.529-	231.215/V	0.729	0.432
101	50.029-	303.465/V	0.418	0.432
201	21.809-	126.365/V	1.151	0.432
213	22.984-	134.515/V	0.993	0.432
212	24.774-	145.065/V	1.058	0.432
214	26.224-	152.315/V	1.323	0.432
211	27.824-	164.765/V	0.888	0.432
206	27.289-	159.665/V	1.187	0.432
209	21.774-	125.115/V	1.320	0.432
207	25.644-	148.765/V	1.324	0.432
210	20.834-	117.515/V	1.622	0.432
208	24.074-	140.065/V	1.176	0.432
5	-2.858-	-15.630/V	-0.303	0.365
6	0.000-	0.000/V	0.000	0.350

SOLUTION FOR DATA SET 2063 (CONTINUED)

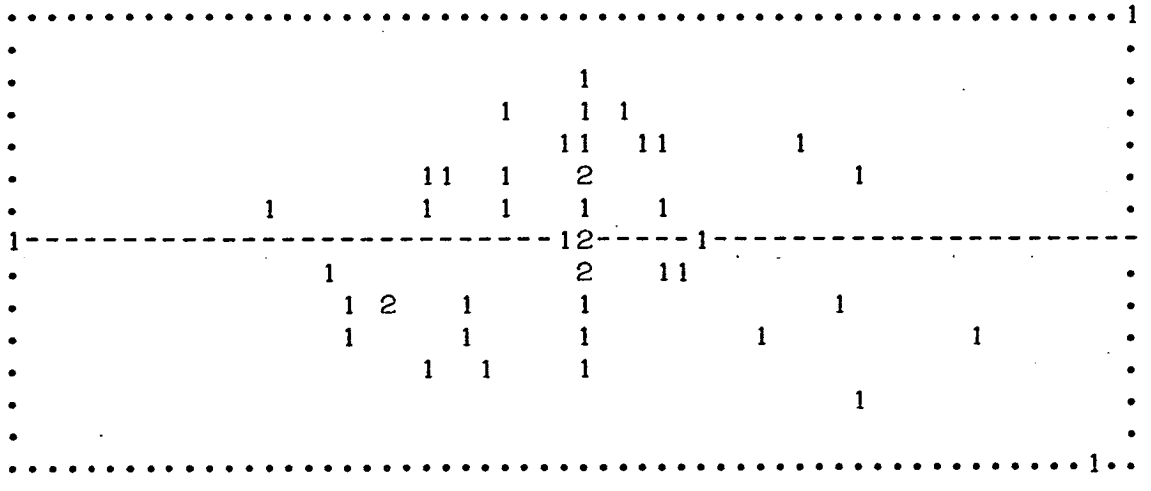
		CIJ	DIJ	DIJX2	DELIJ
111	5	-0.466	-2.085	4.346	-0.125
111	6	0.466	2.085	4.346	0.125
110	5	-0.181	-0.335	0.112	-0.126
110	6	0.181	0.335	0.112	0.126
108	5	0.299	2.665	7.103	-0.137
108	6	-0.299	-2.665	7.103	0.137
112	5	-1.596	-9.735	94.766	-0.004
112	6	1.596	9.735	94.766	0.004
106	5	0.764	5.465	29.869	-0.129
106	6	-0.764	-5.465	29.869	0.129
114	5	-4.031	-23.035	530.601	-0.265
114	6	4.031	23.035	530.601	0.265
113	5	-2.541	-17.035	290.184	0.244
113	6	2.541	17.035	290.184	-0.244
115	5	-4.386	-29.485	869.352	0.434
115	6	4.386	29.485	869.352	-0.434
107	5	3.554	19.965	398.610	0.290
107	6	-3.554	-19.965	398.610	-0.290
116	5	-5.306	-34.185	1168.599	0.283
116	6	5.306	34.185	1168.599	-0.283
105	5	1.299	7.465	55.729	0.079
105	6	-1.299	-7.465	55.729	-0.079
103	5	1.829	10.315	106.404	0.143
103	6	-1.829	-10.315	106.404	-0.143
101	5	2.629	12.565	157.885	0.575
101	6	-2.629	-12.565	157.885	-0.575
201	5	-3.291	-18.735	350.992	-0.228
201	6	3.291	18.735	350.992	0.228
213	5	-3.116	-18.285	334.333	-0.127
213	6	3.116	18.285	334.333	0.127
212	5	-3.126	-17.235	297.038	-0.308
212	6	3.126	17.235	297.038	0.308
214	5	-2.976	-16.485	271.748	-0.281
214	6	2.976	16.485	271.748	0.281
211	5	-2.476	-15.835	250.740	0.113
211	6	2.476	15.835	250.740	-0.113
206	5	0.989	6.265	39.253	-0.035
206	6	-0.989	-6.265	39.253	0.035
209	5	6.774	40.815	1665.882	0.102
209	6	-6.774	-40.815	1665.882	-0.102
207	5	2.544	17.465	305.034	-0.311
207	6	-2.544	-17.465	305.034	0.311
210	5	8.034	49.615	2461.670	-0.077
210	6	-8.034	-49.615	2461.670	0.077
208	5	4.774	29.865	891.931	-0.108
208	6	-4.774	-29.865	891.931	0.108

SOLUTION FOR DATA SET 2063 (CONTINUED)

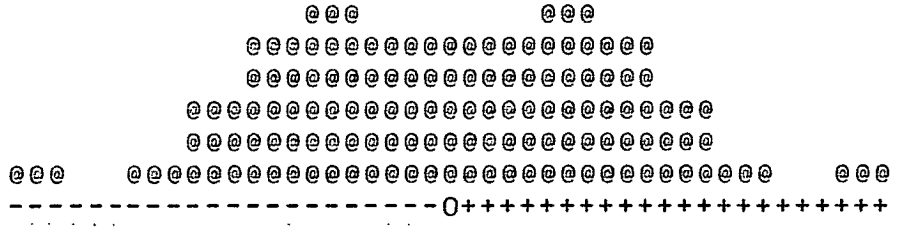
LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
111	2	3.127@ -2	1.768@ -1	1.250@ -1	4.320@ -1
110	2	3.182@ -2	1.784@ -1	1.261@ -1	4.320@ -1
108	2	3.731@ -2	1.932@ -1	1.366@ -1	4.320@ -1
112	2	3.868@ -5	6.220@ -3	4.398@ -3	4.320@ -1
106	2	3.346@ -2	1.829@ -1	1.293@ -1	4.320@ -1
114	2	1.405@ -1	3.749@ -1	2.651@ -1	4.320@ -1
113	2	1.191@ -1	3.451@ -1	2.440@ -1	4.320@ -1
115	2	3.774@ -1	6.143@ -1	4.344@ -1	4.320@ -1
107	2	1.684@ -1	4.103@ -1	2.902@ -1	4.320@ -1
116	2	1.599@ -1	3.999@ -1	2.828@ -1	4.320@ -1
105	2	1.239@ -2	1.113@ -1	7.869@ -2	4.320@ -1
103	2	4.077@ -2	2.019@ -1	1.428@ -1	4.320@ -1
101	2	6.611@ -1	8.131@ -1	5.749@ -1	4.320@ -1
201	2	1.040@ -1	3.225@ -1	2.281@ -1	4.320@ -1
213	2	3.206@ -2	1.791@ -1	1.266@ -1	4.320@ -1
212	2	1.901@ -1	4.360@ -1	3.083@ -1	4.320@ -1
214	2	1.578@ -1	3.972@ -1	2.809@ -1	4.320@ -1
211	2	2.547@ -2	1.596@ -1	1.128@ -1	4.320@ -1
206	2	2.468@ -3	4.968@ -2	3.513@ -2	4.320@ -1
209	2	2.062@ -2	1.436@ -1	1.015@ -1	4.320@ -1
207	2	1.936@ -1	4.400@ -1	3.111@ -1	4.320@ -1
210	2	1.189@ -2	1.091@ -1	7.711@ -2	4.320@ -1
208	2	2.347@ -2	1.532@ -1	1.083@ -1	4.320@ -1
5	23	1.287@ 0	2.419@ -1	5.044@ -2	3.651@ -1
6	24	1.287@ 0	2.366@ -1	4.829@ -2	3.502@ -1

LOCATION		DBAR	SDTV	1SDTV	2SDTV
111	2	101.10	2.433@ -1	4.958@ -1	2.736@ -1
110	2	109.45	2.634@ -1	5.060@ -1	2.921@ -1
108	2	126.45	3.044@ -1	5.284@ -1	3.336@ -1
112	2	166.05	3.997@ -1	5.885@ -1	3.997@ -1
106	2	152.55	3.672@ -1	5.669@ -1	3.893@ -1
114	2	181.25	4.363@ -1	6.139@ -1	5.105@ -1
113	2	175.45	4.223@ -1	6.041@ -1	4.877@ -1
115	2	188.00	4.525@ -1	6.256@ -1	6.273@ -1
107	2	139.05	3.347@ -1	5.464@ -1	4.430@ -1
116	2	216.20	5.204@ -1	6.763@ -1	5.922@ -1
105	2	175.85	4.233@ -1	6.048@ -1	4.305@ -1
103	2	223.40	5.377@ -1	6.897@ -1	5.563@ -1
101	2	295.65	7.116@ -1	8.325@ -1	9.148@ -1
201	2	118.55	2.853@ -1	5.177@ -1	3.653@ -1
213	2	126.70	3.050@ -1	5.288@ -1	3.302@ -1
212	2	137.25	3.304@ -1	5.438@ -1	4.519@ -1
214	2	144.50	3.478@ -1	5.546@ -1	4.471@ -1
211	2	156.95	3.778@ -1	5.738@ -1	3.943@ -1
206	2	151.85	3.655@ -1	5.658@ -1	3.672@ -1
209	2	117.30	2.823@ -1	5.160@ -1	3.000@ -1
207	2	140.95	3.393@ -1	5.493@ -1	4.603@ -1
210	2	109.70	2.640@ -1	5.063@ -1	2.751@ -1
208	2	132.25	3.183@ -1	5.366@ -1	3.362@ -1
5	23	148.12	3.565@ -1	5.103@ -1	3.601@ -1
6	24	156.92	3.777@ -1	5.151@ -1	3.808@ -1

DATA SET 2063 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 300.40
RANGE OF Y AXIS IS -0.575 TO 0.575



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.575 TO 0.575

DATA SETS :				2066	2067	2068
11	1	34.03	214.6	*		
11	4	18.74	104.8	*		
12	1	32.10	202.5	*	*	
12	4	20.63	117.0	*	*	
8	1	29.99	190.7	*	*	*
8	4	21.95	129.2	*	*	*
13	1	28.88	179.4	*	*	*
13	4	24.28	141.1	*	*	*
17	1	27.70	167.2	*	*	*
17	4	26.19	154.4	*	*	*
14	1	26.14	156.3	*	*	*
14	4	28.05	166.6	*	*	*
15	1	24.33	145.7		*	*
15	4	29.23	178.6		*	*
16	1	22.32	134.5			*
16	4	30.61	191.6			*

SUMMARY OF SOLUTIONS :	2066	2067	2068
V	7.056	7.257	7.307
SD OF V	0.123	0.089	0.081
SUM OF SQUARED RESIDUALS	0.124	0.057	0.045
SD OF T	0.176	0.119	0.106
SUMDIJX2	5062	4956	4918

SOLUTION FOR DATA SET 2066

V= 7.056 SD V= 1.233@ -1
1/V= 0.1417 SD 1/V= 2.476@ -3

SUM OF SQUARED RESIDUALS= 1.241@ -1

SD OF T= 1.762@ -1

SUMDIJX2= 5062.200

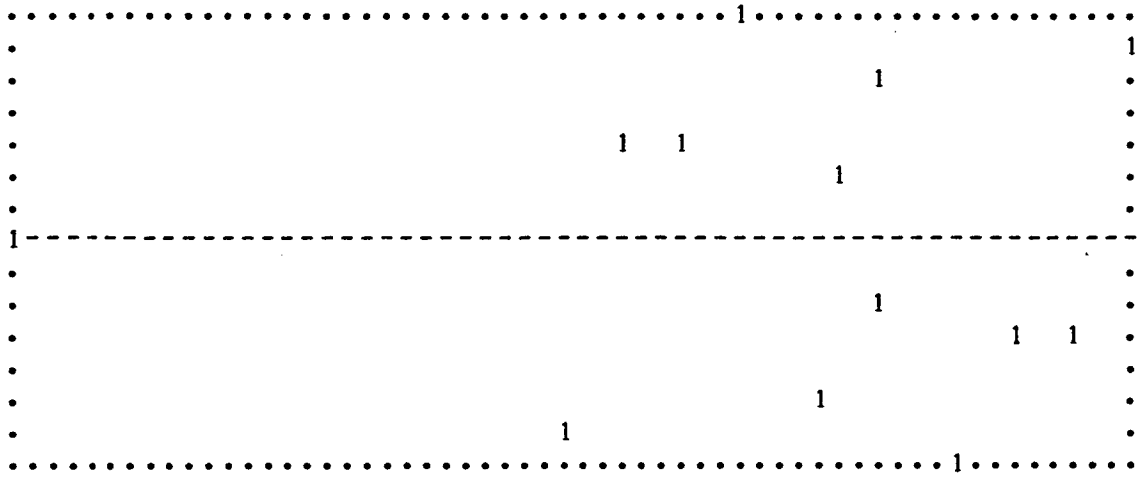
LOCATION	TIME TERMS		SD OF TT
11	23.135-	134.900/V	4.018	0.222
12	23.115-	134.950/V	3.991	0.222
8	22.720-	135.150/V	3.567	0.222
13	23.330-	135.450/V	4.135	0.222
17	23.695-	136.000/V	4.422	0.222
14	23.845-	136.650/V	4.480	0.222
1	6.500-	49.600/V	-0.529	0.203
4	0.000-	0.000/V	0.000	0.176

		CIJ	DIJ	DIJX2	DELIJ
11	1	4.395	30.100	906.010	0.129
11	4	-4.395	-30.100	906.010	-0.129
12	1	2.485	17.950	322.202	-0.059
12	4	-2.485	-17.950	322.203	0.059
8	1	0.770	5.950	35.402	-0.073
8	4	-0.770	-5.950	35.403	0.073
13	1	-0.950	-5.650	31.923	-0.149
13	4	0.950	5.650	31.923	0.149
17	1	-2.495	-18.400	338.560	0.113
17	4	2.495	18.400	338.560	-0.113
14	1	-4.205	-29.950	897.003	0.039
14	4	4.205	29.950	897.002	-0.039

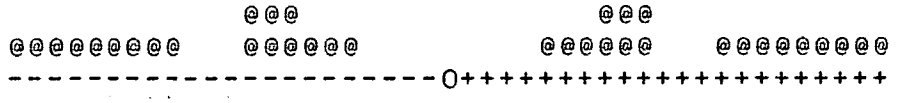
LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
11	2	3.350@ -2	1.830@ -1	1.294@ -1	2.217@ -1
12	2	6.906@ -3	8.311@ -2	5.876@ -2	2.217@ -1
8	2	1.072@ -2	1.035@ -1	7.320@ -2	2.217@ -1
13	2	4.459@ -2	2.112@ -1	1.493@ -1	2.217@ -1
17	2	2.533@ -2	1.591@ -1	1.125@ -1	2.217@ -1
14	2	3.094@ -3	5.562@ -2	3.933@ -2	2.217@ -1
1	6	6.207@ -2	1.114@ -1	4.548@ -2	2.034@ -1
4	7	6.207@ -2	1.017@ -1	3.844@ -2	1.762@ -1

LOCATION		DBAR	SDTV	1SDTV	2SDTV
11	2	159.70	3.954@ -1	4.533@ -1	4.160@ -1
12	2	159.75	3.955@ -1	4.534@ -1	3.999@ -1
8	2	159.95	3.960@ -1	4.538@ -1	4.027@ -1
13	2	160.25	3.968@ -1	4.545@ -1	4.239@ -1
17	2	160.80	3.981@ -1	4.557@ -1	4.137@ -1
14	2	161.45	3.997@ -1	4.571@ -1	4.017@ -1
1	6	185.12	4.583@ -1	5.014@ -1	4.606@ -1
4	7	116.16	2.876@ -1	3.373@ -1	2.902@ -1

DATA SET 2066 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 214.60
RANGE OF Y AXIS IS -0.149 TO 0.149



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.149 TO 0.149

SOLUTION FOR DATA SET 2067

V= 7.257 SD V= 8.921@ -2
1/V= 0.1378 SD 1/V= 1.694@ -3

SUM OF SQUARED RESIDUALS= 5.688@ -2

SD OF T= 1.193@ -1

SUMDIJX2 4956.364

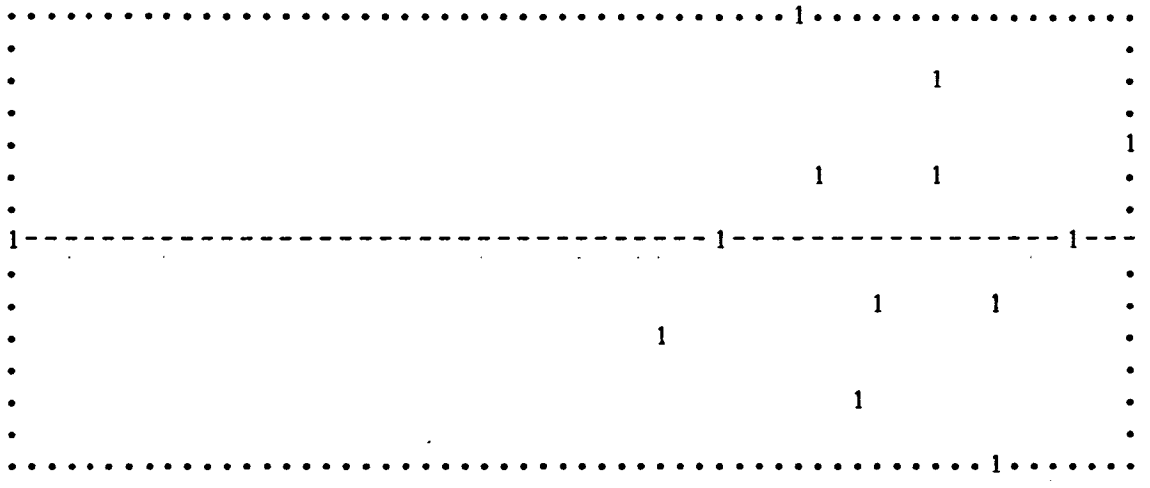
LOCATION	TIME TERMS		SD OF TT
12	24.798-	146.842/V	4.563	0.150
8	24.403-	147.042/V	4.141	0.150
13	25.013-	147.342/V	4.710	0.150
17	25.378-	147.892/V	4.999	0.150
14	25.528-	148.542/V	5.059	0.150
15	25.213-	149.242/V	4.648	0.150
1	3.135-	25.817/V	-0.422	0.138
4	0.000-	0.000/V	0.000	0.119

		CIJ	DIJ	DIJX2	DELIJ
12	1	4.168	29.842	890.525	0.055
12	4	-4.168	-29.842	890.525	-0.055
8	1	2.452	17.842	318.325	-0.006
8	4	-2.453	-17.842	318.325	0.006
13	1	0.733	6.242	38.958	-0.128
13	4	-0.733	-6.242	38.958	0.128
17	1	-0.812	-6.508	42.358	0.084
17	4	0.812	6.508	42.358	-0.084
14	1	-2.523	-18.058	326.103	-0.034
14	4	2.522	18.058	326.103	0.034
15	1	-4.017	-29.358	861.912	0.028
15	4	4.017	29.358	861.912	-0.028

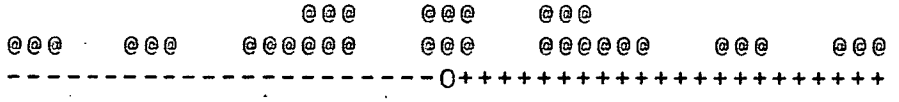
LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
12	2	6.153@ -3	7.844@ -2	5.547@ -2	1.501@ -1
8	2	7.182@ -5	8.475@ -3	5.993@ -3	1.501@ -1
13	2	3.255@ -2	1.804@ -1	1.276@ -1	1.501@ -1
17	2	1.422@ -2	1.192@ -1	8.432@ -2	1.501@ -1
14	2	2.333@ -3	4.830@ -2	3.415@ -2	1.501@ -1
15	2	1.560@ -3	3.950@ -2	2.793@ -2	1.501@ -1
1	6	2.844@ -2	7.542@ -2	3.079@ -2	1.377@ -1
4	7	2.844@ -2	6.885@ -2	2.602@ -2	1.193@ -1

LOCATION		DBAR	SDTV	1SDTV	2SDTV
12	2	159.75	2.706@ -1	3.094@ -1	2.762@ -1
8	2	159.95	2.709@ -1	3.097@ -1	2.710@ -1
13	2	160.25	2.714@ -1	3.102@ -1	2.999@ -1
17	2	160.80	2.724@ -1	3.110@ -1	2.851@ -1
14	2	161.45	2.735@ -1	3.119@ -1	2.756@ -1
15	2	162.15	2.747@ -1	3.130@ -1	2.761@ -1
1	6	173.63	2.941@ -1	3.248@ -1	2.957@ -1
4	7	126.70	2.146@ -1	2.455@ -1	2.162@ -1

DATA SET 2067 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 202.50
RANGE OF Y AXIS IS -0.128 TO 0.128



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.128 TO 0.128

SOLUTION FOR DATA SET 2068

V= 7.307 SD V= 8.105@ -2
1/V= 0.1369 SD 1/V= 1.518@ -3

SUM OF SQUARED RESIDUALS= 4.533@ -2

SD OF T= 1.065@ -1

SUMDIJX2= 4918.337

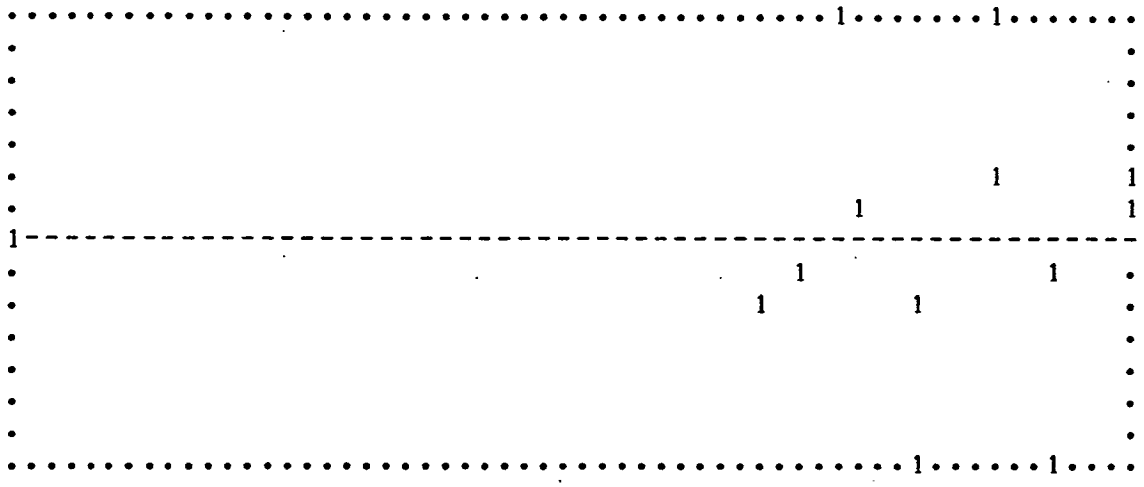
LOCATION	TIME TERMS		SD OF TT
8	26.049-	158.925/V	4.300	0.134
13	26.659-	159.225/V	4.869	0.134
17	27.024-	159.775/V	5.159	0.134
14	27.174-	160.425/V	5.220	0.134
15	26.859-	161.125/V	4.809	0.134
16	26.544-	162.025/V	4.371	0.134
1	-0.158-	2.050/V	-0.439	0.123
4	0.000-	0.000/V	0.000	0.106

		CIJ	DIJ	DIJX2	DELIJ
8	1	4.099	29.725	883.576	0.031
8	4	-4.099	-29.725	883.576	-0.031
13	1	2.379	18.125	328.516	-0.101
13	4	-2.379	-18.125	328.516	0.101
17	1	0.834	5.375	28.891	0.099
17	4	-0.834	-5.375	28.891	-0.099
14	1	-0.876	-6.175	38.131	-0.031
14	4	0.876	6.175	38.131	0.031
15	1	-2.371	-17.475	305.376	0.021
15	4	2.371	17.475	305.376	-0.021
16	1	-4.066	-29.575	874.681	-0.018
16	4	4.066	29.575	874.681	0.018

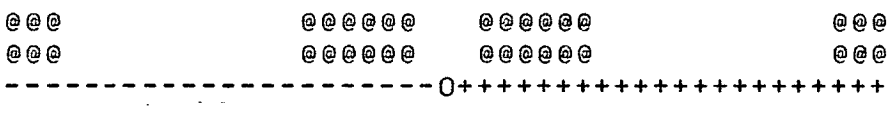
LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
8	2	1.956@ -3	4.423@ -2	3.127@ -2	1.340@ -1
13	2	2.051@ -2	1.432@ -1	1.013@ -1	1.340@ -1
17	2	1.944@ -2	1.394@ -1	9.859@ -2	1.340@ -1
14	2	1.895@ -3	4.353@ -2	3.078@ -2	1.340@ -1
15	2	8.517@ -4	2.918@ -2	2.064@ -2	1.340@ -1
16	2	6.822@ -4	2.612@ -2	1.847@ -2	1.340@ -1
1	6	2.267@ -2	6.733@ -2	2.749@ -2	1.229@ -1
4	7	2.267@ -2	6.146@ -2	2.323@ -2	1.065@ -1

LOCATION		DBAR	SDTV	1SDTV	2SDTV
8	2	159.95	2.428@ -1	2.773@ -1	2.448@ -1
13	2	160.25	2.433@ -1	2.777@ -1	2.635@ -1
17	2	160.80	2.441@ -1	2.784@ -1	2.632@ -1
14	2	161.45	2.451@ -1	2.793@ -1	2.470@ -1
15	2	162.15	2.461@ -1	2.802@ -1	2.470@ -1
16	2	163.05	2.475@ -1	2.814@ -1	2.482@ -1
1	6	162.30	2.464@ -1	2.753@ -1	2.479@ -1
4	7	137.36	2.085@ -1	2.341@ -1	2.098@ -1

DATA SET 2068 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 191.60
RANGE OF Y AXIS IS -0.101 TO 0.101



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.101 TO 0.101

DATA SETS :				2069	2070	2071	2072
11	1	34.03	214.6				*
11	4	18.74	104.8				*
12	1	32.10	202.5			*	*
12	4	20.63	117.0			*	*
8	1	29.99	190.7		*	*	*
8	4	21.95	129.2		*	*	*
13	1	28.88	179.4	*	*	*	*
13	4	24.28	141.1	*	*	*	*
17	1	27.70	167.2	*	*	*	*
17	4	26.19	154.4	*	*	*	*
14	1	26.14	156.3	*	*	*	*
14	4	28.05	166.6	*	*	*	*
15	1	24.33	145.7	*	*	*	*
15	4	29.23	178.6	*	*	*	*
16	1	22.32	134.5		*	*	*
16	4	30.61	191.6		*	*	*

SUMMARY OF SOLUTIONS :	2069	2070	2071	2072
V	7.421	7.307	7.257	7.151
SD OF V	0.198	0.081	0.063	0.075
SUM OF SQUARED RESIDUALS	0.036	0.045	0.057	0.155
SD OF T	0.135	0.106	0.107	0.161
SUMDIJX2	1401	4918	7902	11920

SOLUTION FOR DATA SET 2069

V= 7.421 SD V= 1.984@ -1
1/V= 0.1347 SD 1/V= 3.603@ -3

SUM OF SQUARED RESIDUALS= 3.639@ -2

SD OF T= 1.349@ -1

SUMDIJX2 1401.814

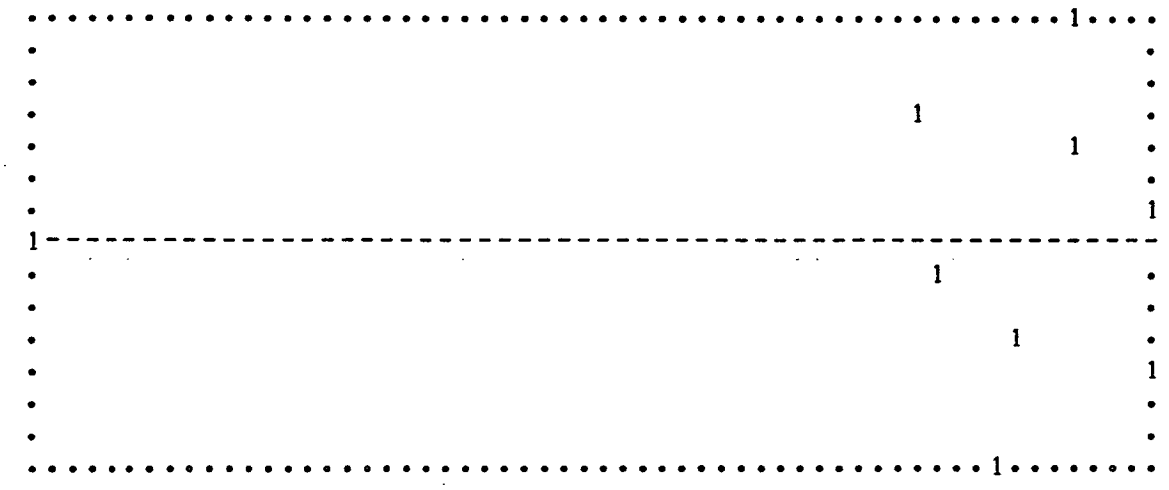
LOCATION	TIME TERMS		SD OF TT
13	26.667-	159.262/V	5.208	0.172
17	27.033-	159.813/V	5.499	0.172
14	27.182-	160.463/V	5.561	0.172
15	26.868-	161.162/V	5.152	0.172
1	-0.175-	1.975/V	-0.441	0.165
4	0.000-	0.000/V	0.000	0.135

		CIJ	DIJ	DIJX2	DELIJ
13	1	2.387	18.162	329.876	-0.060
13	4	-2.387	-18.162	329.876	0.060
17	1	0.842	5.412	29.295	0.113
17	4	-0.843	-5.413	29.295	-0.113
14	1	-0.868	-6.138	37.669	-0.041
14	4	0.868	6.137	37.669	0.041
15	1	-2.363	-17.438	304.066	-0.013
15	4	2.362	17.438	304.066	0.013

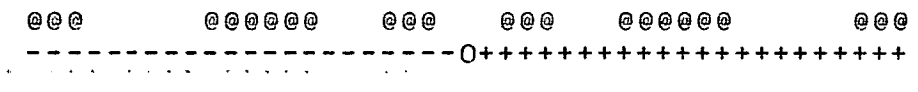
LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
13	2	7.152@ -3	8.457@ -2	5.980@ -2	1.720@ -1
17	2	2.563@ -2	1.601@ -1	1.132@ -1	1.720@ -1
14	2	3.281@ -3	5.728@ -2	4.051@ -2	1.720@ -1
15	2	3.324@ -4	1.823@ -2	1.289@ -2	1.720@ -1
1	4	1.820@ -2	7.788@ -2	3.894@ -2	1.652@ -1
4	5	1.820@ -2	6.745@ -2	3.016@ -2	1.349@ -1

LOCATION		DBAR	SDTV	1SDTV	2SDTV
13	2	160.25	5.773@ -1	6.024@ -1	5.804@ -1
17	2	160.80	5.793@ -1	6.043@ -1	5.903@ -1
14	2	161.45	5.817@ -1	6.066@ -1	5.831@ -1
15	2	162.15	5.842@ -1	6.090@ -1	5.843@ -1
1	4	162.15	5.842@ -1	6.071@ -1	5.855@ -1
4	5	128.14	4.617@ -1	4.810@ -1	4.626@ -1

DATA SET 2069 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 179.40
RANGE OF Y AXIS IS -0.113 TO 0.113



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.113 TO 0.113

SOLUTION FOR DATA SET 2070

V= 7.307 SD V= 8.105@ -2
1/V= 0.1369 SD 1/V= 1.518@ -3

SUM OF SQUARED RESIDUALS= 4.533@ -2

SD OF T= 1.065@ -1

SUMDIJX2 4918.337

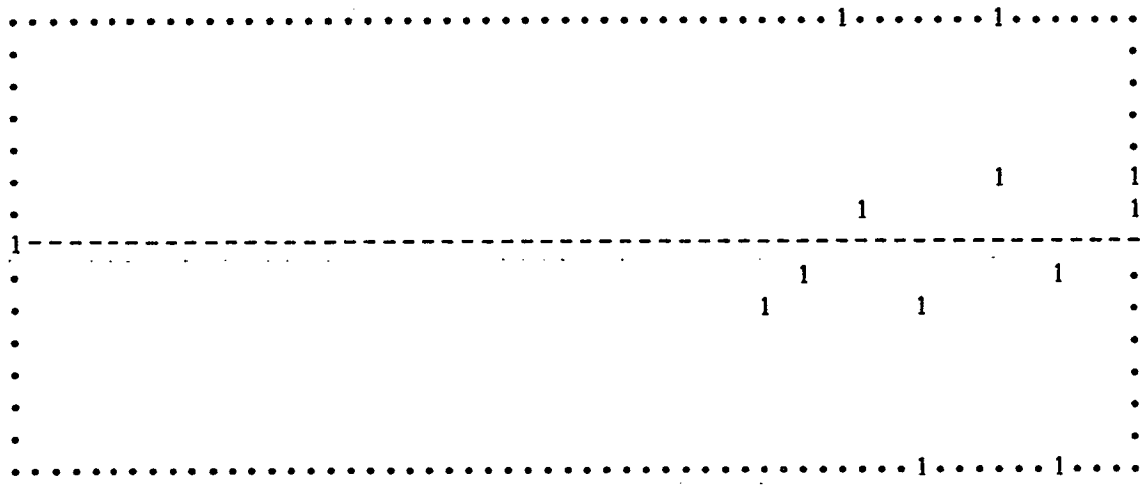
LOCATION	TIME TERMS		SD OF TT
8	26.049-	158.925/V	4.300	0.134
13	26.659-	159.225/V	4.869	0.134
17	27.024-	159.775/V	5.159	0.134
14	27.174-	160.425/V	5.220	0.134
15	26.859-	161.125/V	4.809	0.134
16	26.544-	162.025/V	4.371	0.134
1	-0.158-	2.050/V	-0.439	0.123
4	0.000-	0.000/V	0.000	0.106

		CIJ	DIJ	DIJX2	DELIJ
8	1	4.099	29.725	883.576	0.031
8	4	-4.099	-29.725	883.576	-0.031
13	1	2.379	18.125	328.516	-0.101
13	4	-2.379	-18.125	328.516	0.101
17	1	0.834	5.375	28.891	0.099
17	4	-0.834	-5.375	28.891	-0.099
14	1	-0.876	-6.175	38.131	-0.031
14	4	0.876	6.175	38.131	0.031
15	1	-2.371	-17.475	305.376	0.021
15	4	2.371	17.475	305.376	-0.021
16	1	-4.066	-29.575	874.681	-0.018
16	4	4.066	29.575	874.681	0.018

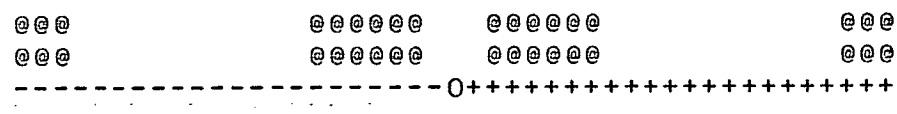
LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
8	2	1.956@ -3	4.423@ -2	3.127@ -2	1.340@ -1
13	2	2.051@ -2	1.432@ -1	1.013@ -1	1.340@ -1
17	2	1.944@ -2	1.394@ -1	9.859@ -2	1.340@ -1
14	2	1.895@ -3	4.353@ -2	3.078@ -2	1.340@ -1
15	2	8.517@ -4	2.918@ -2	2.064@ -2	1.340@ -1
16	2	6.822@ -4	2.612@ -2	1.847@ -2	1.340@ -1
1	6	2.267@ -2	6.733@ -2	2.749@ -2	1.229@ -1
4	7	2.267@ -2	6.146@ -2	2.323@ -2	1.065@ -1

LOCATION		DBAR	SDTV	1SDTV	2SDTV
8	2	159.95	2.428@ -1	2.773@ -1	2.448@ -1
13	2	160.25	2.433@ -1	2.777@ -1	2.635@ -1
17	2	160.80	2.441@ -1	2.784@ -1	2.632@ -1
14	2	161.45	2.451@ -1	2.793@ -1	2.470@ -1
15	2	162.15	2.461@ -1	2.802@ -1	2.470@ -1
16	2	163.05	2.475@ -1	2.814@ -1	2.482@ -1
1	6	162.30	2.464@ -1	2.753@ -1	2.479@ -1
4	7	137.36	2.085@ -1	2.341@ -1	2.098@ -1

DATA SET 2070 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 191.60
RANGE OF Y AXIS IS -0.101 TO 0.101



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.101 TO 0.101

SOLUTION FOR DATA SET 2071

V= 7.257 SD V= 6.319@ -2
1/V= 0.1378 SD 1/V= 1.200@ -3

SUM OF SQUARED RESIDUALS= 5.688@ -2

SD OF T= 1.067@ -1

SUMDIJX2 7902.867

LOCATION	TIME TERMS		SD OF TT
12	25.614-	152.764/V	4.564	0.134
8	25.219-	152.964/V	4.141	0.134
13	25.829-	153.264/V	4.710	0.134
17	26.194-	153.814/V	4.999	0.134
14	26.344-	154.464/V	5.060	0.134
15	26.029-	155.164/V	4.648	0.134
16	25.714-	156.064/V	4.209	0.134
1	1.503-	13.971/V	-0.422	0.121
4	0.000-	0.000/V	0.000	0.107

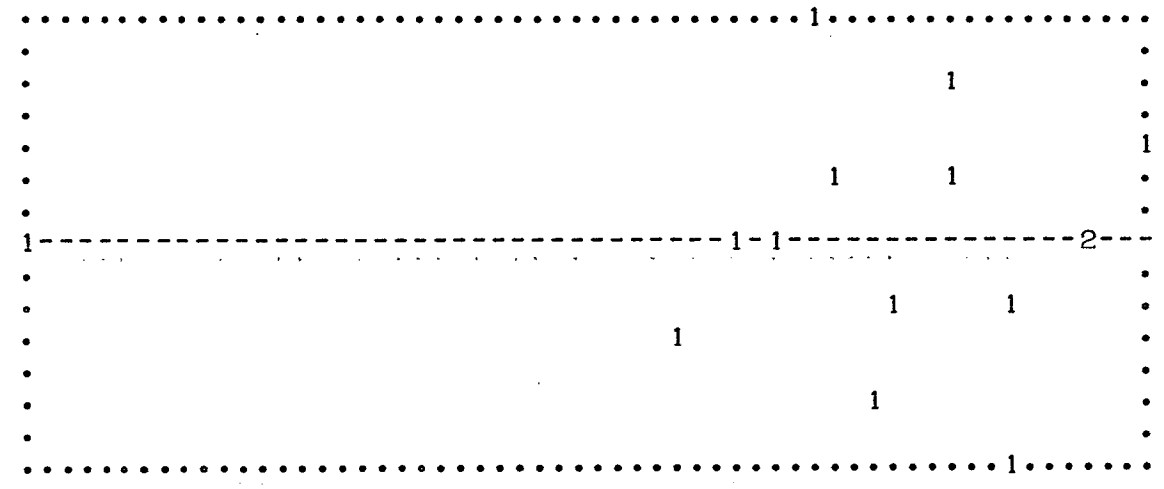
		CIJ	DIJ	DIJX2	DELIJ
12	1	4.984	35.764	1279.084	0.056
12	4	-4.984	-35.764	1279.084	-0.056
8	1	3.269	23.764	564.741	-0.006
8	4	-3.269	-23.764	564.741	0.006
13	1	1.549	12.164	147.970	-0.128
13	4	-1.549	-12.164	147.970	0.128
17	1	0.004	-0.586	0.343	0.084
17	4	-0.004	0.586	0.343	-0.084
14	1	-1.706	-12.136	147.276	-0.034
14	4	1.706	12.136	147.276	0.034
15	1	-3.201	-23.436	549.233	0.028
15	4	3.201	23.436	549.233	-0.028
16	1	-4.896	-35.536	1262.787	0.000
16	4	4.896	35.536	1262.787	-0.000

LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
12	2	6.163@ -3	7.851@ -2	5.551@ -2	1.337@ -1
8	2	7.140@ -5	8.450@ -3	5.975@ -3	1.337@ -1
13	2	3.255@ -2	1.804@ -1	1.276@ -1	1.337@ -1
17	2	1.421@ -2	1.192@ -1	8.428@ -2	1.337@ -1
14	2	2.341@ -3	4.839@ -2	3.422@ -2	1.337@ -1
15	2	1.550@ -3	3.938@ -2	2.784@ -2	1.337@ -1
16	2	3.654@ -8	1.912@ -4	1.352@ -4	1.337@ -1
1	7	2.844@ -2	6.885@ -2	2.602@ -2	1.209@ -1
4	8	2.844@ -2	6.374@ -2	2.254@ -2	1.067@ -1

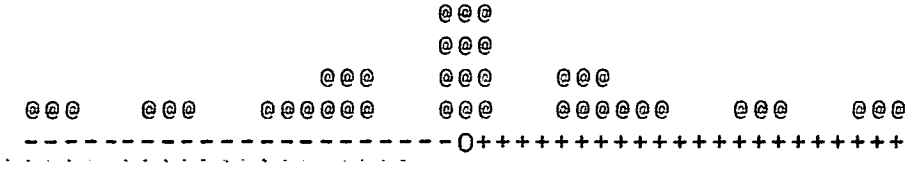
SOLUTION FOR DATA SET 2071 (CONTINUED)

LOCATION		DBAR	SDTV	1SDTV	2SDTV
12	2	159.75	1.917@ -1	2.337@ -1	1.996@ -1
8	2	159.95	1.919@ -1	2.339@ -1	1.920@ -1
13	2	160.25	1.923@ -1	2.342@ -1	2.307@ -1
17	2	160.80	1.929@ -1	2.347@ -1	2.105@ -1
14	2	161.45	1.937@ -1	2.354@ -1	1.967@ -1
15	2	162.15	1.946@ -1	2.361@ -1	1.965@ -1
16	2	163.05	1.956@ -1	2.370@ -1	1.956@ -1
1	7	168.04	2.016@ -1	2.351@ -1	2.033@ -1
4	8	134.81	1.618@ -1	1.938@ -1	1.633@ -1

DATA SET 2071 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 202.50
RANGE OF Y AXIS IS -0.128 TO 0.128



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.128 TO 0.128

SOLUTION FOR DATA SET 2072

V= 7.151 SD V= 7.536@ -2
1/V= 0.1398 SD 1/V= 1.474@ -3

SUM OF SQUARED RESIDUALS= 1.554@ -1

SD OF T= 1.609@ -1

SUMDIJX2 11920.480

LOCATION	TIME TERMS			SD OF TT
11	24.772-	146.725/V	4.254	0.201
12	24.752-	146.775/V	4.227	0.201
8	24.357-	146.975/V	3.804	0.201
13	24.967-	147.275/V	4.372	0.201
17	25.332-	147.825/V	4.660	0.201
14	25.482-	148.475/V	4.719	0.201
15	25.167-	149.175/V	4.306	0.201
16	24.852-	150.075/V	3.865	0.201
1	3.226-	25.950/V	-0.403	0.180
4	0.000-	0.000/V	0.000	0.161

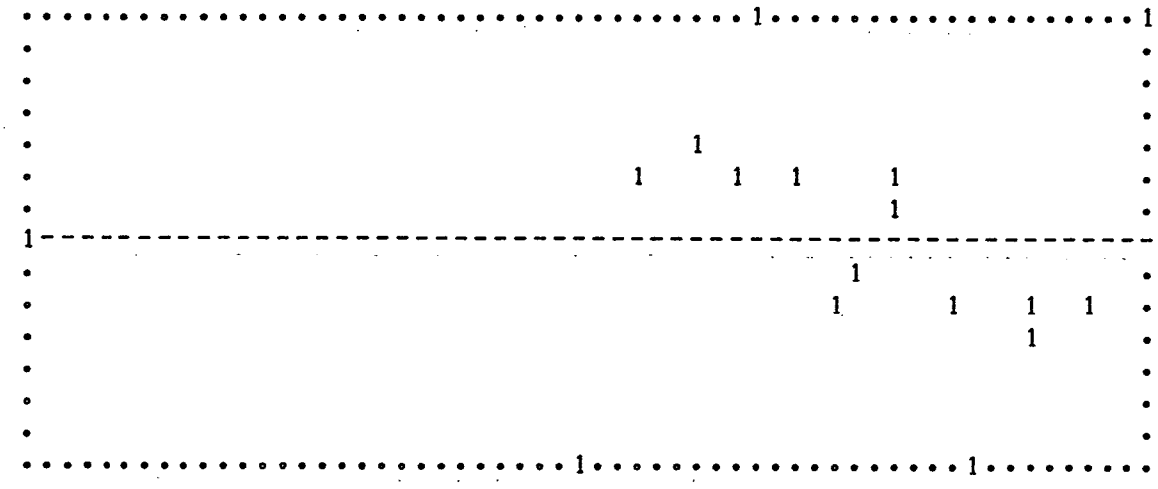
		CIJ	DIJ	DIJX2	DELIJ
11	1	6.032	41.925	1757.706	0.169
11	4	-6.032	-41.925	1757.706	-0.169
12	1	4.122	29.775	886.551	-0.042
12	4	-4.122	-29.775	886.551	0.042
8	1	2.407	17.775	315.951	-0.079
8	4	-2.407	-17.775	315.951	0.079
13	1	0.687	6.175	38.131	-0.177
13	4	-0.687	-6.175	38.131	0.177
17	1	-0.858	-6.575	43.231	0.061
17	4	0.858	6.575	43.231	-0.061
14	1	-2.568	-18.125	328.516	-0.033
14	4	2.568	18.125	328.516	0.033
15	1	-4.063	-29.425	865.831	0.052
15	4	4.063	29.425	865.831	-0.052
16	1	-5.758	-41.525	1724.326	0.049
16	4	5.758	41.525	1724.326	-0.049

LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
11	2	5.712@ -2	2.390@ -1	1.690@ -1	2.011@ -1
12	2	3.515@ -3	5.928@ -2	4.192@ -2	2.011@ -1
8	2	1.242@ -2	1.115@ -1	7.882@ -2	2.011@ -1
13	2	6.241@ -2	2.498@ -1	1.766@ -1	2.011@ -1
17	2	7.524@ -3	8.674@ -2	6.134@ -2	2.011@ -1
14	2	2.243@ -3	4.736@ -2	3.349@ -2	2.011@ -1
15	2	5.351@ -3	7.315@ -2	5.173@ -2	2.011@ -1
16	2	4.766@ -3	6.903@ -2	4.881@ -2	2.011@ -1
1	8	7.768@ -2	1.053@ -1	3.724@ -2	1.799@ -1
4	9	7.768@ -2	9.854@ -2	3.285@ -2	1.609@ -1

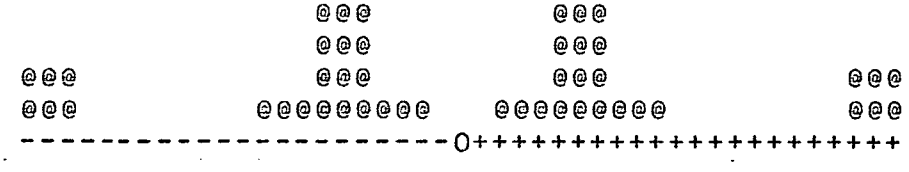
SOLUTION FOR DATA SET 2072 (CONTINUED)

LOCATION		DBAR	SDTV	1SDTV	2SDTV
11	2	159.70	2.354@ -1	3.096@ -1	2.898@ -1
12	2	159.75	2.354@ -1	3.097@ -1	2.391@ -1
8	2	159.95	2.357@ -1	3.099@ -1	2.486@ -1
13	2	160.25	2.362@ -1	3.102@ -1	2.949@ -1
17	2	160.80	2.370@ -1	3.108@ -1	2.448@ -1
14	2	161.45	2.379@ -1	3.116@ -1	2.403@ -1
15	2	162.15	2.390@ -1	3.124@ -1	2.445@ -1
16	2	163.05	2.403@ -1	3.134@ -1	2.452@ -1
1	8	173.86	2.562@ -1	3.131@ -1	2.589@ -1
4	9	131.48	1.938@ -1	2.519@ -1	1.965@ -1

DATA SET 2072 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 214.60
RANGE OF Y AXIS IS -0.177 TO 0.177



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.177 TO 0.177

DATA SET 2075

130	40	7	122	36	5
118	5	49.60	348.60	1	1
118	6	48.00	336.80	1	2
102	5	36.92	249.80	2	1
102	6	35.70	243.10	2	2
103	5	33.71	225.90	3	1
103	6	33.20	220.90	3	2
104	5	30.72	200.00	4	1
104	6	30.00	197.80	4	2
105	5	27.60	175.70	5	1
105	6	27.60	176.20	5	2
106	5	24.38	150.40	6	1
106	6	25.00	154.90	6	2
107	5	24.86	151.40	7	1
107	6	21.80	126.90	7	2
112	5	24.15	148.70	8	1
112	6	28.30	183.60	8	2
113	5	24.31	150.80	9	1
113	6	30.60	200.30	9	2
114	5	24.57	150.50	10	1
114	6	32.20	212.10	10	2
115	5	24.61	150.80	11	1
115	6	33.90	225.30	11	2
116	5	27.89	174.30	12	1
116	6	38.40	258.20	12	2
205	5	25.03	151.00	13	1
205	6	28.00	175.80	13	2
207	5	24.56	150.50	14	1
207	6	22.20	131.30	14	2
92	5	43.60	298.50	15	1
92	6	41.47	280.60	15	2
8	5	45.26	316.10	16	1
8	6	43.08	297.40	16	2
7	5	46.97	327.70	17	1
7	6	44.95	310.30	17	2
6	5	48.27	338.90	18	1
6	6	46.63	323.00	18	2
1	5	49.69	351.20	19	1
1	6	48.36	336.80	19	2
5	5	50.81	360.00	20	1
5	6	49.39	346.70	20	2
3	5	54.06	384.30	21	1
3	6	52.63	373.30	21	2
13	5	44.95	311.60	22	1
13	6	42.98	296.30	22	2
16	5	42.58	293.80	23	1
16	6	42.50	294.20	23	2
18	5	42.29	287.60	24	1
18	6	42.79	292.50	24	2
19	5	40.93	278.90	25	1
19	6	41.00	281.40	25	2

DATA SET 2075 (CONTINUED)

20	5	39.19	268.00	26	1
20	6	39.61	272.50	26	2
21	5	37.93	256.80	27	1
21	6	38.56	263.20	27	2
22	5	36.26	244.50	28	1
22	6	37.19	253.40	28	2
23	5	34.89	231.40	29	1
23	6	36.14	243.10	29	2
24	5	33.16	219.20	30	1
24	6	34.67	233.60	30	2
8	1	29.99	190.70	16	3
1	1	28.21	173.70	19	3
4	1	26.97	166.80	31	3
3	1	27.17	164.70	21	3
2	1	26.74	162.90	32	3
13	1	28.88	179.40	22	3
17	1	27.70	167.20	33	3
14	1	26.14	156.30	34	3
15	1	24.33	145.70	35	3
16	1	22.32	134.50	23	3
19	1	23.12	136.90	25	3
20	1	23.26	138.80	26	3
21	1	23.73	142.80	27	3
22	1	24.42	147.30	28	3
23	1	25.41	153.70	29	3
24	1	26.07	160.70	30	3
6	2	22.96	135.30	18	4
1	2	25.11	149.40	19	4
5	2	26.64	159.90	20	4
4	2	28.18	173.50	31	4
3	2	30.40	187.00	21	4
2	2	32.24	201.00	32	4
15	2	22.51	131.10	35	4
16	2	23.27	139.90	23	4
18	2	24.75	147.70	24	4
19	2	23.04	135.50	25	4
20	2	23.00	134.40	26	4
21	2	22.69	133.10	27	4
22	2	22.91	133.90	28	4
23	2	22.88	135.60	29	4
24	2	23.20	138.30	30	4
91	4	22.49	133.30	36	5
92	4	22.41	133.00	15	5
7	4	23.44	134.50	17	5
6	4	23.98	141.80	18	5
1	4	25.32	150.30	19	5
5	4	26.66	157.50	20	5
4	4	27.49	166.70	31	5
3	4	29.37	176.50	21	5
2	4	30.56	187.70	32	5
13	4	24.28	141.10	22	5
17	4	26.19	154.40	33	5
14	4	28.05	166.60	34	5

DATA SET 2075 (CONTINUED)

15	4	29.23	178.60	35	5
16	4	30.61	191.60	23	5
18	4	32.64	205.30	24	5
19	4	31.59	196.90	25	5
91	5	43.48	298.70	36	1
5	1	27.43	169.80	20	3
4	5	52.81	372.20	31	1
2	5	55.87	396.60	32	1
17	5	44.15	305.30	33	1
14	5	43.53	300.60	34	1
15	5	43.14	296.70	35	1
91	1	29.96	190.50	36	3
92	1	30.16	190.90	15	3
7	1	30.05	184.90	17	3
6	1	28.70	179.00	18	3
20	4	32.55	202.60	26	5
22	4	34.36	215.10	28	5
23	4	35.19	222.90	29	5
24	4	36.11	230.70	30	5

SOLUTION FOR DATA SET 2075

V= 7.734 SD V= 5.724@ -2
1/V= 0.1293 SD 1/V= 9.571@ -4

SUM OF SQUARED RESIDUALS= 5.966@ 0

SD OF T= 2.714@ -1

SUMDIJX2 80407.593

LOCATION	TIME TERMS		SD OF TT
118	33.551- 213.907/V	5.892	0.341
102	21.061- 117.657/V	5.848	0.341
103	18.206- 94.607/V	5.973	0.341
104	15.111- 70.107/V	6.046	0.341
105	12.351- 47.157/V	6.254	0.341
106	9.441- 23.857/V	6.357	0.341
107	8.081- 10.357/V	6.742	0.341
112	10.976- 37.357/V	6.146	0.341
113	12.206- 46.757/V	6.160	0.341
114	13.136- 52.507/V	6.347	0.341
115	14.006- 59.257/V	6.344	0.341
116	17.896- 87.457/V	6.588	0.341
205	11.266- 34.607/V	6.792	0.341
207	8.131- 12.107/V	6.566	0.341
92	27.228- 163.776/V	6.051	0.308
8	29.868- 185.434/V	5.890	0.321
7	29.171- 177.376/V	6.235	0.308
6	29.094- 179.049/V	5.941	0.302
1	30.324- 187.729/V	6.049	0.302
5	31.172- 194.229/V	6.057	0.302
3	33.712- 212.609/V	6.220	0.302
13	28.091- 170.126/V	6.092	0.308
16	27.242- 166.249/V	5.745	0.302
18	28.907- 175.164/V	6.257	0.308
19	26.922- 161.369/V	6.056	0.302
20	26.508- 158.709/V	5.986	0.302
21	24.460- 143.286/V	5.932	0.311
22	26.014- 154.289/V	6.063	0.302
23	25.888- 152.789/V	6.131	0.302
24	25.628- 151.949/V	5.980	0.302
4	31.438- 196.608/V	6.015	0.308
2	33.928- 213.858/V	6.275	0.308
17	28.229- 169.664/V	6.290	0.317
14	28.122- 168.531/V	6.330	0.317
15	27.378- 164.833/V	6.064	0.308
91	27.526- 168.197/V	5.776	0.317
5	15.124- 127.597/V	-1.375	0.283
6	15.373- 129.989/V	-1.435	0.285
1	-1.770- -9.688/V	-0.518	0.285
2	-3.656- -25.141/V	-0.405	0.288
4	0.000- 0.000/V	0.000	0.271

SOLUTION FOR DATA SET 2075 (CONTINUED)

		CIJ	DIJ	DIJX2	DELIJ
118	5	0.925	7.096	50.356	0.007
118	6	-0.925	-7.096	50.356	-0.007
102	5	0.735	4.546	20.668	0.147
102	6	-0.735	-4.546	20.668	-0.147
103	5	0.380	3.696	13.662	-0.098
103	6	-0.380	-3.696	13.662	0.098
104	5	0.485	2.296	5.272	0.188
104	6	-0.485	-2.296	5.272	-0.188
105	5	0.125	0.946	0.895	0.002
105	6	-0.125	-0.946	0.895	-0.002
106	5	-0.185	-1.054	1.111	-0.049
106	6	0.185	1.054	1.111	0.049
107	5	1.655	13.446	180.800	-0.084
107	6	-1.655	-13.446	180.800	0.084
112	5	-1.950	-16.254	264.186	0.151
112	6	1.950	16.254	264.186	-0.151
113	5	-3.020	-23.554	554.782	0.025
113	6	3.020	23.554	554.782	-0.025
114	5	-3.690	-29.604	876.386	0.138
114	6	3.690	29.604	876.386	-0.138
115	5	-4.520	-36.054	1299.877	0.142
115	6	4.520	36.054	1299.877	-0.142
116	5	-5.130	-40.754	1660.873	0.139
116	6	5.130	40.754	1660.873	-0.139
205	5	-1.360	-11.204	125.525	0.088
205	6	1.360	11.204	125.525	-0.088
207	5	1.305	10.796	116.558	-0.091
207	6	-1.305	-10.796	116.558	0.091
92	5	1.248	7.128	50.804	0.326
92	6	-1.132	-13.165	173.310	0.571
8	5	0.268	3.069	9.419	-0.128
8	6	-2.161	-18.023	324.838	0.169
7	5	2.675	22.728	516.547	-0.264
7	6	0.406	2.935	8.616	0.026
6	5	4.052	32.255	1040.357	-0.118
6	6	2.163	13.962	194.943	0.358
1	5	4.242	35.875	1286.985	-0.396
1	6	2.663	19.082	364.130	0.195
5	5	4.514	38.175	1457.298	-0.422
5	6	2.845	22.482	505.449	-0.062
3	5	5.224	44.095	1944.331	-0.477
3	6	3.545	30.702	942.625	-0.425
13	5	1.735	13.878	192.590	-0.059
13	6	-0.484	-3.815	14.552	0.009
16	5	0.214	-0.045	0.002	0.220
16	6	-0.115	-2.038	4.153	0.148
18	5	-1.741	-15.161	229.841	0.219
18	6	-1.490	-12.653	160.096	0.146
19	5	-1.116	-10.065	101.313	0.186
19	6	-1.295	-9.958	99.158	-0.007

SOLUTION FOR DATA SET 2075 (CONTINUED)

20	5	-2.442	-18.305	335.089	-0.075
20	6	-2.271	-16.198	262.369	-0.177
21	5	-1.654	-14.083	198.320	0.167
21	6	-1.273	-10.075	101.506	0.030
22	5	-4.878	-37.385	1397.670	-0.043
22	6	-4.197	-30.878	953.439	-0.204
23	5	-6.122	-48.985	2399.572	0.213
23	6	-5.121	-39.678	1574.328	0.010
24	5	-7.592	-60.345	3641.571	0.212
24	6	-6.331	-48.338	2336.543	-0.081
8	1	1.893	14.954	223.627	-0.041
1	1	-0.343	-4.340	18.839	0.218
4	1	-2.698	-20.120	404.807	-0.096
3	1	-4.771	-38.220	1460.797	0.171
2	1	-5.418	-41.270	1703.198	-0.081
13	1	2.560	18.963	359.585	0.108
17	1	1.242	7.224	52.193	0.307
14	1	-0.212	-2.542	6.463	0.117
15	1	-1.278	-9.445	89.205	-0.056
16	1	-3.151	-22.060	486.660	-0.299
19	1	-2.031	-14.780	218.459	-0.120
20	1	-1.477	-10.220	104.456	-0.156
21	1	1.041	9.202	84.685	-0.149
22	1	0.177	2.700	7.288	-0.172
23	1	1.293	10.600	112.352	-0.078
24	1	2.213	18.440	340.020	-0.172
6	2	-2.478	-18.608	346.244	-0.072
1	2	-1.558	-13.188	173.913	0.147
5	2	-0.876	-9.188	84.412	0.312
4	2	0.397	2.033	4.133	0.135
3	2	0.344	-0.468	0.219	0.404
2	2	1.967	12.283	150.870	0.379
15	2	-1.213	-8.592	73.824	-0.102
16	2	-0.316	-1.208	1.458	-0.160
18	2	-0.502	-2.323	5.395	-0.201
19	2	-0.226	-0.728	0.529	-0.132
20	2	0.148	0.832	0.693	0.040
21	2	1.886	14.955	223.658	-0.048
22	2	0.552	4.752	22.585	-0.063
23	2	0.648	7.952	63.240	-0.381
24	2	1.228	11.492	132.075	-0.258
91	4	-5.036	-34.897	1217.818	-0.523
92	4	-4.818	-30.776	947.142	-0.839
7	4	-5.731	-42.876	1838.324	-0.187
6	4	-5.114	-37.249	1387.471	-0.297
1	4	-5.004	-37.429	1400.913	-0.164
5	4	-4.512	-36.729	1349.003	0.238
4	4	-3.948	-29.908	894.502	-0.081
3	4	-4.342	-36.109	1303.843	0.327
2	4	-3.368	-26.158	684.253	0.014
13	4	-3.811	-29.026	842.490	-0.058
17	4	-2.039	-15.264	232.987	-0.065
14	4	-0.072	-1.931	3.727	0.177

SOLUTION FOR DATA SET 2075 (CONTINUED)

15	4	1.852	13.767	189.524	0.072
16	4	3.368	25.351	642.685	0.090
18	4	3.733	30.136	908.187	-0.164
19	4	4.668	35.531	1262.468	0.074
91	5	0.831	2.906	8.445	0.455
5	1	-1.971	-14.740	217.279	-0.065
4	5	6.248	47.995	2303.532	0.042
2	5	6.818	55.145	3040.984	-0.313
17	5	0.797	8.039	64.632	-0.242
14	5	0.284	4.473	20.006	-0.294
15	5	0.638	4.270	18.234	0.086
91	1	4.205	31.991	1023.434	0.068
92	1	4.702	36.813	1355.176	-0.058
7	1	2.650	17.213	296.278	0.424
6	1	1.377	9.640	92.922	0.130
20	4	6.042	43.891	1926.440	0.367
22	4	8.346	60.811	3698.006	0.483
23	4	9.302	70.111	4915.585	0.236
24	4	10.482	78.751	6201.756	0.299

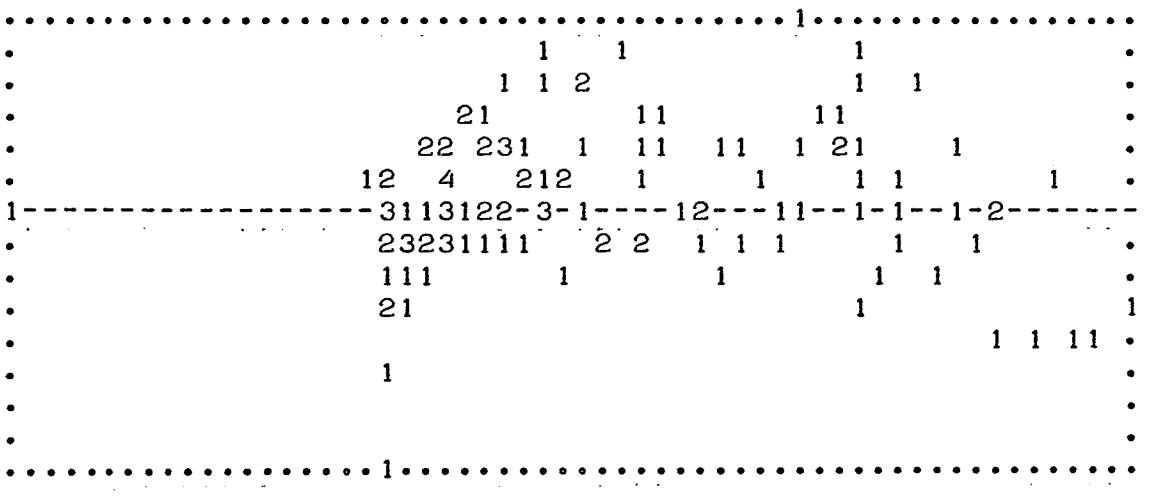
SOLUTION FOR DATA SET 2075 (CONTINUED)

LOCATION		SDEL2	SD OF DATA	2SD OF TT	(1SD OF TT)
118	2	1.019@ -4	1.010@ -2	7.140@ -3	3.411@ -1
102	2	4.314@ -2	2.077@ -1	1.469@ -1	3.411@ -1
103	2	1.929@ -2	1.389@ -1	9.822@ -2	3.411@ -1
104	2	7.055@ -2	2.656@ -1	1.878@ -1	3.411@ -1
105	2	1.132@ -5	3.364@ -3	2.379@ -3	3.411@ -1
106	2	4.803@ -3	6.931@ -2	4.901@ -2	3.411@ -1
107	2	1.410@ -2	1.187@ -1	8.396@ -2	3.411@ -1
112	2	4.588@ -2	2.142@ -1	1.515@ -1	3.411@ -1
113	2	1.291@ -3	3.593@ -2	2.541@ -2	3.411@ -1
114	2	3.793@ -2	1.948@ -1	1.377@ -1	3.411@ -1
115	2	4.018@ -2	2.005@ -1	1.417@ -1	3.411@ -1
116	2	3.891@ -2	1.973@ -1	1.395@ -1	3.411@ -1
205	2	1.565@ -2	1.251@ -1	8.846@ -2	3.411@ -1
207	2	1.667@ -2	1.291@ -1	9.130@ -2	3.411@ -1
92	4	1.139@ 0	6.162@ -1	3.081@ -1	3.081@ -1
8	3	4.691@ -2	1.531@ -1	8.842@ -2	3.214@ -1
7	4	2.847@ -1	3.081@ -1	1.540@ -1	3.081@ -1
6	5	2.524@ -1	2.512@ -1	1.123@ -1	3.025@ -1
1	5	2.914@ -1	2.699@ -1	1.207@ -1	3.025@ -1
5	5	3.397@ -1	2.914@ -1	1.303@ -1	3.025@ -1
3	5	7.083@ -1	4.208@ -1	1.882@ -1	3.025@ -1
13	4	1.849@ -2	7.850@ -2	3.925@ -2	3.081@ -1
16	5	1.936@ -1	2.200@ -1	9.838@ -2	3.025@ -1
18	4	1.368@ -1	2.135@ -1	1.068@ -1	3.083@ -1
19	5	7.196@ -2	1.341@ -1	5.998@ -2	3.025@ -1
20	5	1.971@ -1	2.220@ -1	9.927@ -2	3.025@ -1
21	4	5.349@ -2	1.335@ -1	6.676@ -2	3.113@ -1
22	5	3.105@ -1	2.786@ -1	1.246@ -1	3.025@ -1
23	5	2.520@ -1	2.510@ -1	1.123@ -1	3.025@ -1
24	5	2.369@ -1	2.434@ -1	1.088@ -1	3.025@ -1
4	4	3.560@ -2	1.089@ -1	5.447@ -2	3.081@ -1
2	4	2.482@ -1	2.877@ -1	1.438@ -1	3.081@ -1
17	3	1.574@ -1	2.806@ -1	1.620@ -1	3.172@ -1
14	3	1.318@ -1	2.567@ -1	1.482@ -1	3.172@ -1
15	4	2.602@ -2	9.313@ -2	4.656@ -2	3.081@ -1
91	3	4.852@ -1	4.925@ -1	2.844@ -1	3.172@ -1
5	36	1.663@ 0	2.180@ -1	3.633@ -2	2.832@ -1
6	30	1.004@ 0	1.860@ -1	3.397@ -2	2.849@ -1
1	21	6.415@ -1	1.791@ -1	3.908@ -2	2.846@ -1
2	15	7.626@ -1	2.334@ -1	6.026@ -2	2.877@ -1
4	21	1.895@ 0	3.078@ -1	6.718@ -2	2.714@ -1

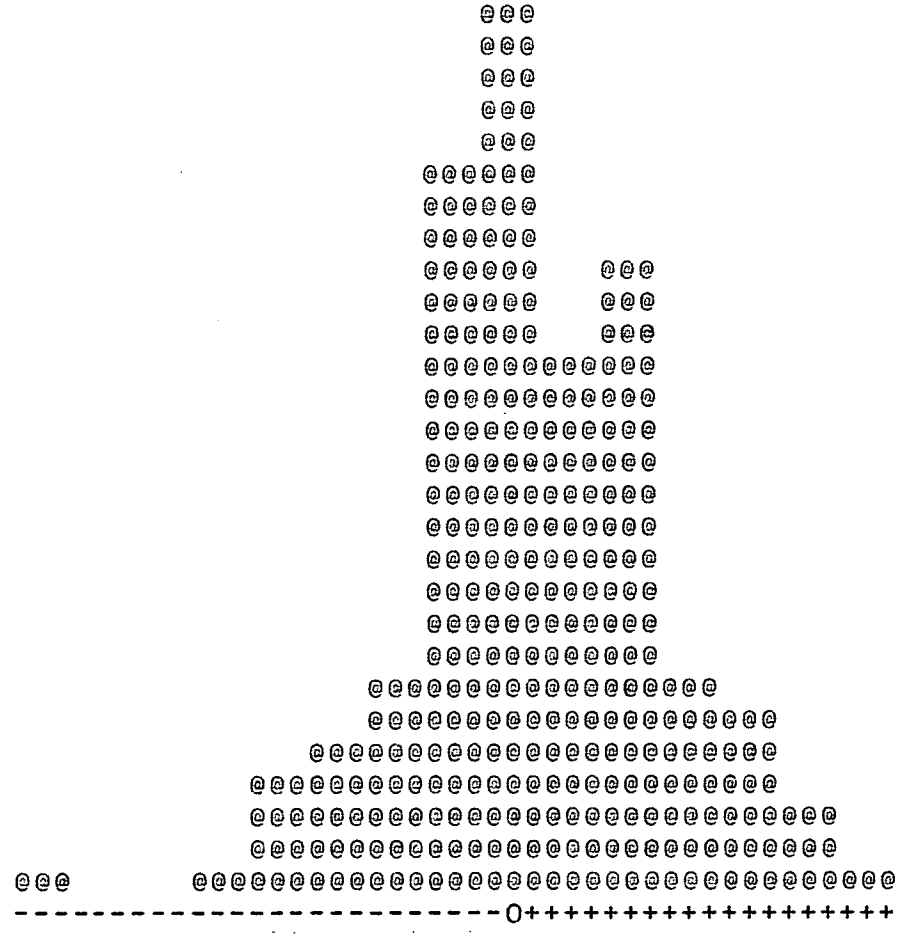
SOLUTION FOR DATA SET 2075 (CONTINUED)

LOCATION		DBAR	SDTV	1SDTV	2SDTV
118	2	342.70	3.280@ -1	4.732@ -1	3.281@ -1
102	2	246.45	2.359@ -1	4.147@ -1	2.779@ -1
103	2	223.40	2.138@ -1	4.026@ -1	2.353@ -1
104	2	198.90	1.904@ -1	3.906@ -1	2.674@ -1
105	2	175.95	1.684@ -1	3.804@ -1	1.684@ -1
106	2	152.65	1.461@ -1	3.711@ -1	1.541@ -1
107	2	139.15	1.332@ -1	3.662@ -1	1.574@ -1
112	2	166.15	1.590@ -1	3.763@ -1	2.196@ -1
113	2	175.55	1.680@ -1	3.802@ -1	1.699@ -1
114	2	181.30	1.735@ -1	3.827@ -1	2.215@ -1
115	2	188.05	1.800@ -1	3.857@ -1	2.291@ -1
116	2	216.25	2.070@ -1	3.990@ -1	2.496@ -1
205	2	163.40	1.564@ -1	3.752@ -1	1.797@ -1
207	2	140.90	1.349@ -1	3.668@ -1	1.629@ -1
92	4	225.75	2.161@ -1	3.763@ -1	3.763@ -1
8	3	268.07	2.566@ -1	4.113@ -1	2.714@ -1
7	4	239.35	2.291@ -1	3.840@ -1	2.760@ -1
6	5	223.60	2.140@ -1	3.705@ -1	2.417@ -1
1	5	232.28	2.223@ -1	3.754@ -1	2.530@ -1
5	5	238.78	2.285@ -1	3.791@ -1	2.631@ -1
3	5	257.16	2.461@ -1	3.900@ -1	3.098@ -1
13	4	232.10	2.221@ -1	3.799@ -1	2.256@ -1
16	5	210.80	2.018@ -1	3.636@ -1	2.245@ -1
18	4	233.28	2.233@ -1	3.807@ -1	2.475@ -1
19	5	205.92	1.971@ -1	3.610@ -1	2.060@ -1
20	5	203.26	1.945@ -1	3.596@ -1	2.184@ -1
21	4	198.97	1.904@ -1	3.650@ -1	2.018@ -1
22	5	198.84	1.903@ -1	3.574@ -1	2.275@ -1
23	5	197.34	1.889@ -1	3.566@ -1	2.197@ -1
24	5	196.50	1.881@ -1	3.562@ -1	2.173@ -1
4	4	219.80	2.104@ -1	3.731@ -1	2.173@ -1
2	4	237.05	2.269@ -1	3.826@ -1	2.686@ -1
17	3	208.97	2.000@ -1	3.750@ -1	2.574@ -1
14	3	207.83	1.989@ -1	3.744@ -1	2.481@ -1
15	4	188.03	1.800@ -1	3.568@ -1	1.859@ -1
91	3	207.50	1.986@ -1	3.742@ -1	3.468@ -1
5	36	258.81	2.477@ -1	3.762@ -1	2.503@ -1
6	30	251.38	2.406@ -1	3.729@ -1	2.430@ -1
1	21	163.68	1.567@ -1	3.249@ -1	1.615@ -1
2	15	149.04	1.426@ -1	3.211@ -1	1.549@ -1
4	21	166.05	1.589@ -1	3.145@ -1	1.725@ -1

DATA SET 2075 : DISTRIBUTION OF RESIDUALS



DISTRIBUTION BY DISTANCE AND SIZE
RANGE OF X AXIS IS 0.00 TO 396.60
RANGE OF Y AXIS IS -0.839 TO 0.571



DISTRIBUTION BY SIZE
RANGE OF X AXIS IS -0.839 TO 0.571

SUMMARY OF TIME-TERMS: AGGER & CARPENTER "PG" DATA

V = 6.12 ≠ 0.18

SD OF T = 0.35

	A	B	C	D	E
W1	0.42	-0.60	≠1.66	0.07	0.75
W2				(0.10)	
W3	0.73	-0.29	≠1.38	0.38	0.89
W4				(0.11)	
W5	1.17	0.15	≠1.21	0.83	1.22
W6	1.05	0.03	≠1.13	0.70	1.04
W7	1.34	0.32	≠1.09	1.00	1.30
W8	0.95	-0.07	≠1.06	0.60	0.88
W9				(0.52)	
W10	0.95	-0.07	≠1.01	0.60	0.83
W11	1.13	0.11	≠0.99	0.78	1.00
W12	0.68	-0.34	≠1.18	0.34	0.71
W13	0.40	-0.62	≠1.21	0.05	0.45
W14	1.06	0.04	≠1.23	0.72	1.12
W15	0.80	-0.22	≠1.25	0.46	0.88
W16	0.77	-0.25	≠1.35	0.42	0.92
W18				(0.08)	
W20					
E1	1.15	0.13	≠1.04	0.80	1.06
E2				(0.91)	
E3					
E4				(0.94)	
E5				(1.13)	
E6	1.19	0.17	≠1.13	0.84	1.17
E7	1.32	0.30	≠1.10	0.98	1.28
E8	1.18	0.16	≠1.07	0.83	1.12
E9	1.32	0.30	≠1.03	0.97	1.23
E10	1.62	0.60	≠1.01	1.28	1.51
E11	0.89	-0.13	≠1.15	0.54	0.89
E12	1.06	0.04	≠1.09	0.71	1.02
E13	0.99	-0.03	≠1.06	0.64	0.92
E14	1.32	0.30	≠1.11	0.97	1.29
EKA	-0.30	0.72	≠1.02	0.05	0.05
RH	0.00	1.02	≠1.03	0.35	0.39

A: FOR LAST STATION TT = 0 (DATA SET 2063)
B: FOR MEAN SHOT TT = 0 (AS AGGER & CARPENTER)
C: 95% CONFIDENCE LIMITS ON TT
D: ADJUSTED TT'S (AS AGGER & CARPENTER)
E: ADJUSTED TT'S FOR V = 6.21 (SETTING EKA = 0.05)
95% CONFIDENCE LIMIT (FROM SD OF T) = ≠0.86

SUMMARY OF TIME-TERMS: AGGER & CARPENTER "PN" DATA

V = 7.99 ≠ 0.29

SD OF T = 0.21

	A	B	C	D
W1	6.42	0.72	≠1.44	3.62
W2	5.43	-0.27	≠1.23	2.63
W3	5.45	-0.25	≠1.14	2.65
W4	5.42	-0.28	≠1.04	2.62
W5	5.55	-0.15	≠0.95	2.75
W6	5.56	-0.14	≠0.87	2.75
W7				(3.19)
W8				(2.85)
W9				(2.92)
W10				(2.71)
W11				(3.40)
W12	5.40	-0.30	≠0.92	2.60
W13	5.45	-0.25	≠0.95	2.65
W14	5.66	-0.04	≠0.97	2.85
W15	5.68	-0.02	≠1.00	2.88
W16	6.04	0.34	≠1.11	3.24
W18	5.87	0.17	≠1.64	3.07
W20				(3.40)
E1				(3.13)
E2				(3.27)
E3	6.01	0.31	≠1.13	3.21
E4				(3.41)
E5	6.01	0.31	≠0.91	3.21
E6				(3.09)
E7	5.70	0.00	≠0.82	2.90
E8				(2.92)
E9				(3.08)
E10				(3.17)
E11	5.56	-0.14	≠0.88	2.75
E12				
E13				(2.97)
E14				(3.11)
EKA	0.07	5.77	≠0.98	2.87
RH	0.00	5.70	≠1.01	2.80

A: FOR LAST STATION TT = 0 (DATA SET 2056)
B: FOR MEAN SHOT TT = 0 (AS AGGER & CARPENTER)
C: 95% CONFIDENCE LIMIT ON TT
D: ADJUSTED TT'S (AS AGGER & CARPENTER)

SUMMARY OF TIME-TERMS: IRISH SEA UPPER REFRACTOR

V = 6·14 ≠ 0·11

SD OF T = 0·20

	A	B	C
9A	1·47	≠0·62	0·26
9B	1·60	≠0·62	0·40
8	1·82	≠0·63	0·61
7	1·87	≠0·67	0·66
6	1·94	≠0·64	0·74
1	1·93	≠0·60	0·72
5	2·03	≠0·61	0·82
4	2·00	≠0·62	0·80
3	2·07	≠0·64	0·86
2	1·84	≠0·65	0·61
10			
11	1·71	≠0·59	0·50
12	1·78	≠0·60	0·57
(8)	1·82	≠0·63	0·61
13	2·14	≠0·63	0·94
17	1·95	≠0·63	0·74
14	2·15	≠0·64	0·94
15	2·24	≠0·68	1·03
16	1·91	≠0·60	0·70
18	1·91	≠0·61	0·70
19	1·95	≠0·61	0·74
20	2·33	≠0·59	1·12
21	2·43	≠0·59	1·22
22	2·29	≠0·60	1·08
23	2·16	≠0·61	0·95
24	1·96	≠0·62	0·75
BD	-1·10	≠0·64	0·10
FG	-0·86	≠0·57	0·35
MA	-0·88	≠0·50	0·33
PC	0·00	≠0·58	1·21

A: FOR LAST STATION TT = 0
B: 95% CONFIDENCE LIMIT ON TT
C: ADJUSTED TT'S

SUMMARY OF TIME-TERMS: IRISH SEA INTERMEDIATE REFRACTOR

V = 7.28 ≠ 0.05

SD OF T = 0.08

	A	B	C
9	4.21	≠0.23	2.27
8	4.20	≠0.25	2.26
7	5.00	≠0.23	3.06
6	4.53	≠0.23	2.59
1	4.74	≠0.24	2.80
5	4.96	≠0.22	3.02
4	4.53	≠0.23	2.59
3	4.97	≠0.23	3.03
2	4.79	≠0.23	2.85
10			
11			(2.92)
12	4.74	≠0.23	2.80
(8)	4.20	≠0.25	2.26
13	4.77	≠0.25	2.83
17	5.06	≠0.25	3.12
14	5.13	≠0.23	3.19
15	4.70	≠0.23	2.76
16	4.26	≠0.23	2.32
18	4.57	≠0.22	2.63
19	4.60	≠0.22	2.66
20	4.70	≠0.22	2.76
21	4.57	≠0.24	2.62
22	4.70	≠0.23	2.76
23	4.57	≠0.24	2.63
24	4.45	≠0.23	2.51
BD	-0.42	≠0.22	1.52
FG	-0.21	≠0.21	1.74
MA	0.33	≠0.19	2.27
PC	0.00	≠0.22	1.94

A: FOR LAST STATION TT = 0
B: 95% CONFIDENCE LIMITS ON TT
C: ADJUSTED TT'S

SUMMARY OF TIME-TERMS: IRISH SEA LOWER REFRACTOR

V = 8.09 ≠ 0.35

SD OF T = 0.14

	A	B	C
9	6.71	≠0.84	3.70
8	6.22	≠0.89	3.21
7	6.49	≠0.92	3.49
6	6.50	≠0.94	3.50
1	6.47	≠0.98	3.46
5	6.38	≠1.00	3.38
4			(3.73)
3	6.48	≠1.06	3.48
2			(3.77)
10			
11			(3.47)
12			(3.46)
(8)	6.22	≠0.89	3.21
13	6.36	≠0.88	3.35
17			(3.34)
14			(3.32)
15			(3.40)
16	6.16	≠0.86	3.16
18	6.65	≠0.85	3.65
19	6.30	≠0.82	3.30
20	5.96	≠0.80	2.96
21	6.08	≠0.77	3.07
22	5.92	≠0.75	2.91
23	6.16	≠0.72	3.15
24	5.90	≠0.70	2.89
BD			
FG			
MA			
PC			
EKA	0.03	≠0.71	3.04
RH	0.00	≠0.71	3.01

A: FOR LAST STATION TT = 0
B: 95% CONFIDENCE LIMITS ON TT
C: ADJUSTED TT'S

SUMMARY OF TIME-TERMS: JUTLAND-SKAGERRAK UPPER REFRACTOR

V = 6.53 ≠ 0.04

SD OF T = 0.07

	A	B	C
6402	1.78	≠0.18	0.63
6401	1.72	≠0.18	0.57
6404	1.77	≠0.18	0.62
6405	1.80	≠0.18	0.65
6406	1.82	≠0.18	0.67
6407	1.79	≠0.19	0.64
21	-0.30	≠0.18	0.85
22	-0.19	≠0.19	0.96
23	0.38	≠0.18	1.53
24	0.53	≠0.19	1.68
25	0.71	≠0.18	1.86
26	0.84	≠0.19	1.99
27	0.76	≠0.19	1.91
28	0.78	≠0.20	1.93
29	(0.79)		(1.94)
47	0.12	≠0.22	1.27
30	0.81	≠0.21	1.96
31	0.65	≠0.22	1.80
32	0.54	≠0.21	1.69
33			
48	0.25	≠0.19	1.40
34			
35			
36	(0.63)		(0.52)
41			
37	0.00	≠0.14	1.15
6204	2.89	≠0.21	1.74
6203	2.90	≠0.20	1.75
6202	2.88	≠0.19	1.73
6201	2.91	≠0.20	1.76
49	-0.08	≠0.20	1.07
6504			
42	(-0.63)		(0.52)
6501			
38			
39			
44	-0.59	≠0.22	0.56
40			
45			
46	(-0.61)		(0.54)

A: FOR LAST STATION TT = 0
B: 95% CONFIDENCE LIMITS ON TT
C: ADJUSTED TT'S

SUMMARY OF TIME-TERMS: JUTLAND-SKAGERRAK LOWER REFRACTOR

V = 7.78 ≠ 0.08 BEFORE DIP CORRECTION
V = 8.07 ≠ 0.09 AFTER DIP CORRECTION

SD OF T = 0.08

	A	B	C	D	E	F
6402	(2.56)	2.5N	1.31	(6.71)		(2.75)
6401	2.61	2.5N	1.31	6.75	≠0.34	2.79
6404	2.62	2.5N	1.31	6.75	≠0.28	2.79
6405	2.72	3.0N	1.56	6.81	≠0.28	2.75
6406						
6407						
21						
22	2.61	4.5N	2.51	-1.10	≠0.41	2.86
23						
24	3.53	4.5N	2.63	-0.28	≠0.38	3.68
25						
26	4.10	3.0N	1.80	0.27	≠0.37	4.23
27	4.00	2.5N	1.53	0.25	≠0.22	4.22
28	3.87	1.5N	0.92	0.08	≠0.23	4.05
29	3.56	1.0N	0.62	-0.22	≠0.27	3.74
47	3.26	0.5N	0.31	-0.58	≠0.35	3.38
30	3.65	0.5N	0.28	-0.12	≠0.27	3.85
31	3.68	0	0	-0.06	≠0.28	3.90
32	3.56	0.5S	0.31	-0.25	≠0.31	3.71
33	3.55	1.0S	0.62	-0.20	≠0.30	3.76
48						
34	3.68	3.0S	1.83	-0.10	≠0.30	3.86
35	3.79	4.5S	2.71	0.03	≠0.32	3.99
36	(3.84)	6.5S	3.85	(0.02)		(3.99)
41	(3.77)	8.0S	4.66	(0.20)		(4.17)
37	3.97	8.0S	4.66	0.00	≠0.26	3.97
6204	3.32	8.0S	4.25	7.11	≠0.36	3.15
6203	3.33	8.0S	4.11	7.15	≠0.36	3.18
6202	3.43	7.5S	3.65	7.25	≠0.34	3.29
6201	3.27	7.0S	3.29	7.16	≠0.36	3.19
49						
6504	(1.91)	0	0	(6.57)		(2.60)
42	(2.02)	0	0	(-1.10)		(2.87)
6501	2.28	0	0	6.97	≠0.33	3.00
38	1.94	0.5N	0.21	-0.83	≠0.52	3.14
39	1.86	0.5N	0.21	-0.90	≠0.52	3.07
44	1.91	1.0N	0.44	-0.86	≠0.34	3.11
40	2.00	1.0N	0.44	-0.61	≠0.56	3.35
45	(2.58)	1.0N	0.44	(-0.02)		(3.94)
46	(1.90)	1.5N	0.66	(-0.77)		(3.19)

A: FIRST ESTIMATE OF TT
B: ESTIMATE OF DIP, DEGREES
C: DIP CORRECTION, KMS.
D: SECOND ESTIMATE OF TT
E: 95% CONFIDENCE LIMIT ON TT
F: ADJUSTED TT'S

SUMMARY OF DEPTHS: JUTLAND-SKAGERRAK PROJECT

TYPICAL 95% CONFIDENCE LIMIT ON DEPTH:-
UPPER REFRACTOR ≠ 0.7 KM.
LOWER REFRACTOR ≠ 4.0 KM.

	A	B	C
6402	2.4	29.6	30.2
6401	2.2	30.9	31.3
6404	2.4	30.6	30.9
6405	2.5	31.5	29.9
6406	2.6		
6407	2.4		
21	3.2		
22	3.7	26.6	28.3
23	5.8		
24	6.4	31.6	31.8
25	7.1		
26	7.6	36.2	35.9
27	7.3	35.6	36.4
28	7.4	33.7	34.3
29	7.4	29.0	29.9
47	4.9	32.4	32.0
30	7.5	30.1	31.2
31	6.9	32.4	33.5
32	6.5	32.0	32.2
33			
48	5.3		
34			
35			
36	6.8	34.8	34.9
41			
37	4.4	29.6	41.1
6204	6.6	27.8	24.0
6203	6.7	27.9	24.3
6202	6.6	29.5	25.9
6201	6.7	26.9	24.4
49	4.1	30.4	
6504			
42	2.0	23.0	32.9
6501			
38			
39			
44	2.1	21.0	35.6
40			
45			
46	2.1	21.1	36.9

A: DEPTH TO UPPER REFRACTOR, KMS.
B: DEPTH TO LOWER REFRACTOR BEFORE DIP CORRECTION, KMS.
C: " " " " AFTER DIP CORRECTION, KMS.

(STATION 49 INTERPRETED AS WIDE-ANGLE REFLECTION)