```
                FETCH

WHAT IS THE FILE NAME AND EXTENSION? HANDLE.DAT

HOW MANY INPUT VARIABLES? 2


WHICH COMMAND? NAME
VAR  1? PSFS
VAR  2? TIME


WHICH COMMAND? PLOT

WHICH IS THE HORIZONTAL VARIABLE? PSFS

WHICH IS THE VERTICAL VARIABLE? TIME



PLOT OF VARIABLE: PSFS  (HORIZ.) VS VARIABLE: TIME  (VERT.)
            I---------+---------+---------+---------+
  75.68     +                                       1
            I
            I
            I
  59.68     +
            I
            I                                   1
            I
  43.68     +
            I                         1
            I
            I
  27.68     +
            I                   1
            I
            I
  11.68     +
            I           1     1
            I1    1
            I
  -4.320    +
            I---------+---------+---------+---------+
         0.6600              1.460               2.260
                   1.060               1.860


WHICH COMMAND? TRANS
?HTIME=LN(TIME-1)
```

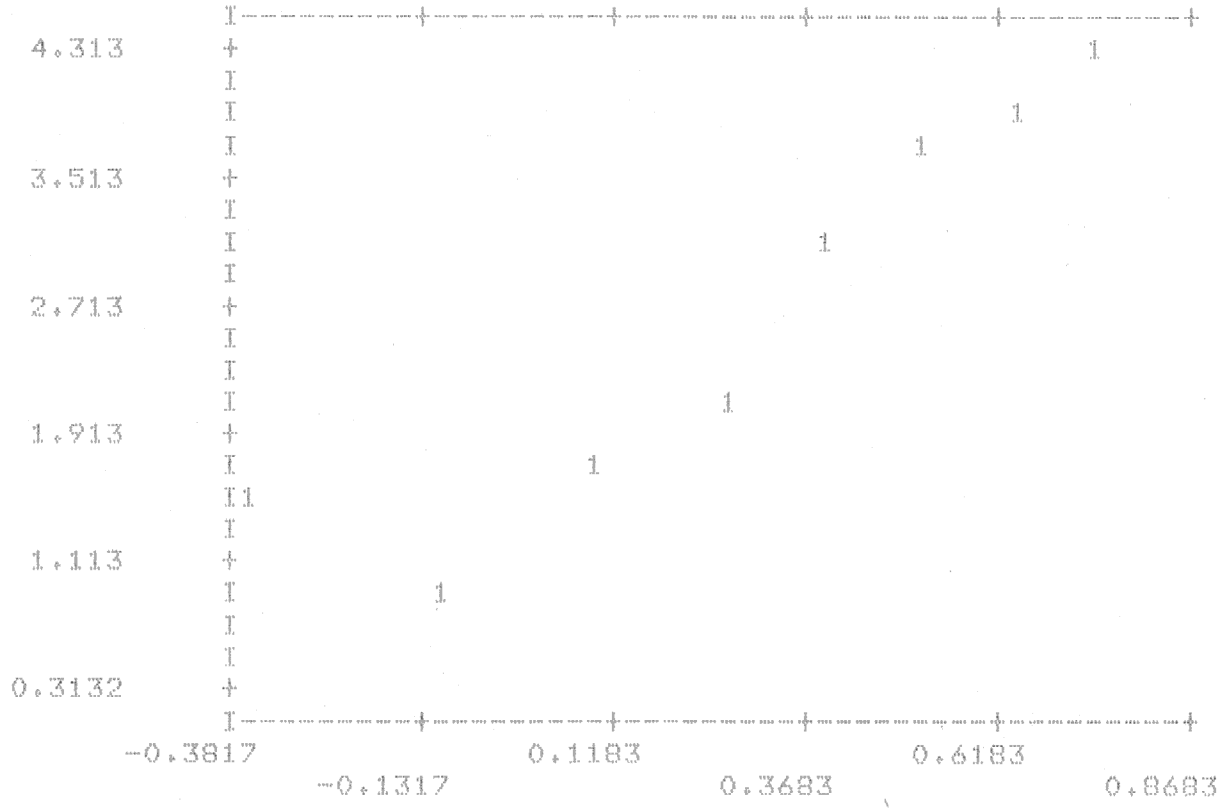
VARIABLE: MTIME HAS BEEN CREATED
?LPSFS=LN(PSFS)
VARIABLE: LPSFS HAS BEEN CREATED
?

WHICH COMMAND? PLOT

WHICH IS THE HORIZONTAL VARIABLE? LPSFS

WHICH IS THE VERTICAL VARIABLE? HTIME

PLOT OF VARIABLE: LPSFS (HORIZ.) VS VARIABLE: HTIME (VERT.)



WHICH COMMAND?

```
                REGR
ENTER OPTIONS SEPARATED BY COMMAS



LIST THE INDEPENDENT VARIABLES?

LPSFS
WHICH IS THE DEPENDENT VARIABLE? HTIME
```

***** MULTIPLE LINEAR REGRESSION *****

SAMPLE SIZE = 8
DEPENDENT VARIABLE: HTIME
INDEPENDENT VARIABLES: LPSFS

COEFFICIENT OF DETERMINATION = 0.86730
MULTIPLE CORR COEFF. = 0.93129

ESTIMATED CONSTANT TERM = 1.7896608
STANDARD ERROR OF ESTIMATE = 0.49574745

ANALYSIS OF VARIANCE
FOR THE REGRESSION

SOURCE OF VARIATION	DF	S. SQ.	M.S.	F	PROB
REGRESSION	1	9.63792	9.63792	39.22	0.0008
RESIDUALS	6	1.47459	.245766		
TOTAL	7	11.1125			

VAR.	REGRESSION COEFFICIENT	S. E. OF REG. COEF.	F-VALUE DF (1, 6)	PROB	CORR.COEF. WITH HTIME
LPSFS	3.087435	.4930	39.22	0.0008	0.9313

```
WHICH COMMAND?
```

SORT

```
LIST SORT VARIABLES MAJOR TO MINOR? TIME
DATA SORTED BY VARIABLES: TIME .


WHICH COMMAND? TYPE TIME,PSFS,LPSFS,HTIME
WHICH VARIABLES? PSFS,TIME,LPSFS,HTIME
```

OBS	VAR PSFS	TIME	LPSFS	HTIME
1	.9000	3.730	-.1054	1.004
2	.7000	5.340	-.3567	1.468
3	1.100	6.310	.9531E-01	1.670
4	1.300	8.490	.2624	2.014
5	1.500	22.93	.4055	3.088
6	1.700	40.18	.5306	3.668
7	1.900	52.06	.6419	3.933
8	2.100	75.68	.7419	4.313

```
WHICH COMMAND?
```

HANDLING TIME REGRESSION Grouped data of 1-6 items eaten.

·04 - ·06

·061 - ·08 – 2·97, 11·13, 4·65, 2·64

·081 - ·10 – 2·00, 3·49, 2·00, 6·85, 4·29, 4·99, 2·48

·101 - ·12 – 8·41, 7·56, 6·31, 6·05, 3·20

·121 - ·140 – 8·31, 9·86, 7·67, 5·56, 3·57, 5·31, 6·60, 6·51, 11·19, 5·90, 22·92

·141 - ·160 – 4·94, 38·75, 29·00, 6·25, 9·97, 4·74, 72·99, 16·79

·161 - ·180 – 35·26, 27·92, 28·21, 37·14, 4·97, 176·00, 108·35, 6·87, 5·25, 7·78, 4·27

·181 - ·200 – 82·00, 34·26, 68·58, 85·45, 33·69, 45·07, 42·14, 30·76, 54·88, 76·16, 40·3, 31·53

·201 - ·22 – 109·91, 33·19, 59·12, 113·54, 165·00, 32·81, 16·22

·221 - ·24 – 27·61

·241 - ·26 – 218·1

	n	$\bar{X}$	σ	S.E.	t_{crit}	95% CI
0.7	4	5·34	3·95	1·975	2·776	5·48
·9	7	3·73	1·79	0·676	2·365	1·6
1·1	5	6·31	1·98	·885	2·571	2·28
1·3	11	8·49	5·25	1·58	2·201	3·48
1·5	8	22·93	23·70	8·38	2·306	19·32
1·7	11	40·18	54·16	16·33	2·201	35·94
1·9	12	52·06	20·64	5·96	2·179	12·98
2·1	7	75·68	54·82	20·72	2·365	49·00

PSFS	h	
·7	5·34	2·48
·9	3·73	4·07
1·1	6·31	6·48
1·3	8·49	10·98
1·5	22·93	18·02
1·7	40·18	29·58
1·9	52·06	48·55
2·1	75·68	79·69

On h-1.

a/b = – 0·82 0·438

Slope = ~~2·478~~ 24·78

h = 0·438 e^2.478 PSFS

24·78.

r = 0·96

24·78 PS/ES

.06 – .08 —— .065, .065, .076 ~~.091~~ ~~.082~~ .074

.081 – ~~.10~~ .10 —— .085 .093 .082 .091 .091

.101 – .12 —— .104 .115 .115 .105 .105 .107 .107

.121 – .14 —— .125 .131 .140 .122 .122 .137 .130 .130 .126 .130

.141 – .16 —— .146 .148 .152 .158 .145 .154 .148 .160 .144

.161 – .18 —— .174 .166 .174 .174 .166 .172 .172 .167 .165 .176

.181 – .20 —— .191 .198 .162 .196 .173 .196 .196 .196 .199 .193 .199 .199 .185

.201 – .22 —— .217 .217 .210 .208 .205 .203 .210

X

.07	.0705	.07
.09	.0884	
.11	.1083	
.13	.1293	
.15	.1505	
.17	.1706	
.19	.1925	
.21	.21	

TY HANDLE.DAT

HTIME	PS/FS	PSFS/TIME	ALOG(TIME-1)
2.97	0.065000	0.021886	0.678034
8.13	0.125000	0.015375	1.964311
11.13	0.065000	0.005840	2.315501
82.00	0.191000	0.002329	4.394449
8.41	0.104000	0.012366	2.002830
4.65	0.078000	0.016774	1.294727
2.00	0.085000	0.042500	0.000000
35.26	0.174000	0.004935	3.533978
34.26	0.198000	0.005779	3.504355
27.92	0.166000	0.005946	3.292870
3.49	0.093000	0.026648	0.912283
28.21	0.174000	0.006168	3.303585
68.58	0.182000	0.002654	4.213312
37.14	0.174000	0.004685	3.587400
109.91	0.217000	0.001974	4.690522
4.97	0.166000	0.033400	1.378766
4.94	0.146000	0.029555	1.371181
7.56	0.115000	0.015212	1.880991
6.31	0.115000	0.018225	1.669592
2.00	0.105000	0.052500	0.000000
6.85	0.105000	0.015328	1.766442
33.19	0.217000	0.006538	3.471656
176.00	0.172000	0.000977	5.164786
108.35	0.172000	0.001587	4.676095
38.75	0.148000	0.003819	3.630985
29.00	0.152000	0.005241	3.332205
6.25	0.158000	0.025280	1.658228
9.86	0.131000	0.013286	2.181547
7.67	0.140000	0.018253	1.897620
5.56	0.122000	0.021942	1.517323
6.87	0.167000	0.024309	1.769855
3.57	0.122000	0.034174	0.943906
85.45	0.196000	0.002294	4.436160
218.10	0.254000	0.001165	5.380358
59.12	0.210000	0.003552	4.062510
5.25	0.193000	0.032952	1.446919
9.97	0.145000	0.014544	2.193886
4.74	0.154000	0.032489	1.319086
113.54	0.208000	0.001832	4.723309
72.99	0.148000	0.002028	4.276527
16.79	0.160000	0.009529	2.759377
33.69	0.196000	0.005818	3.487069
45.07	0.196000	0.004349	3.785779
5.31	0.137000	0.025800	1.460938
42.14	0.196000	0.004651	3.716981
6.60	0.130000	0.019697	1.722767
6.05	0.107000	0.017686	1.619388
6.51	0.130000	0.019969	1.706565
30.76	0.199000	0.006469	3.393165
7.78	0.165000	0.021208	1.913977
3.20	0.107000	0.033438	0.788457
4.27	0.176000	0.041218	1.184790
4.29	0.091000	0.021212	1.190888
4.99	0.082000	0.016433	1.383791
11.19	0.144000	0.012869	2.321407
5.90	0.126000	0.021356	1.589235

2.64	0.074000	0.028030	0.494696
2.48	0.091000	0.036694	0.392042
54.88	0.193000	0.003517	3.986759
165.00	0.205000	0.001242	5.099866
22.92	0.130000	0.005672	3.087399
76.16	0.199000	0.002613	4.319619
40.30	0.199000	0.004938	3.671225
31.53	0.185000	0.005867	3.418710
32.81	0.203000	0.006187	3.459781
27.61	0.225000	0.008149	3.281287
16.22	0.210000	0.012947	2.722610

Documentation : DOC:STP.DOC
HLP:STP.HLP

Advisory : Applications Group

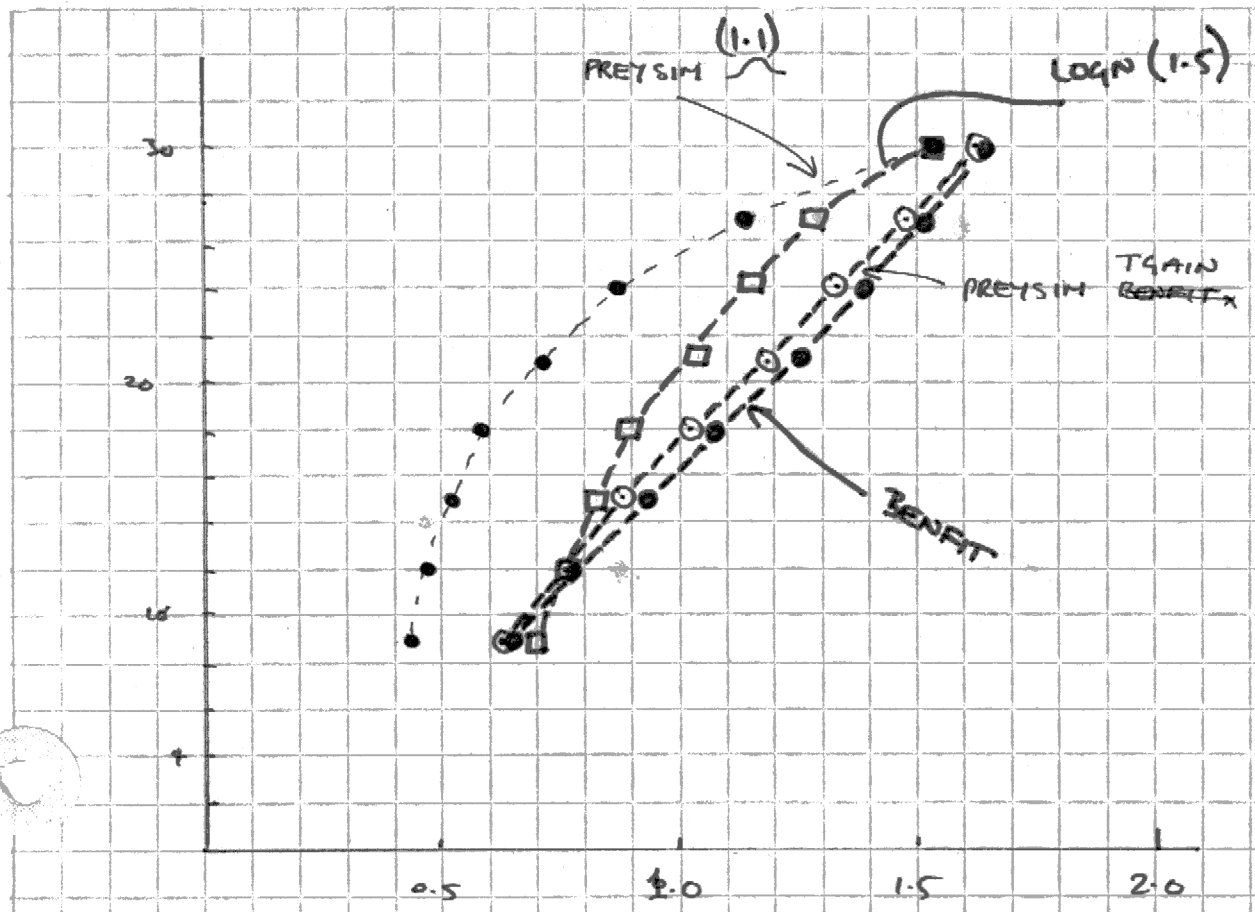
Comments :

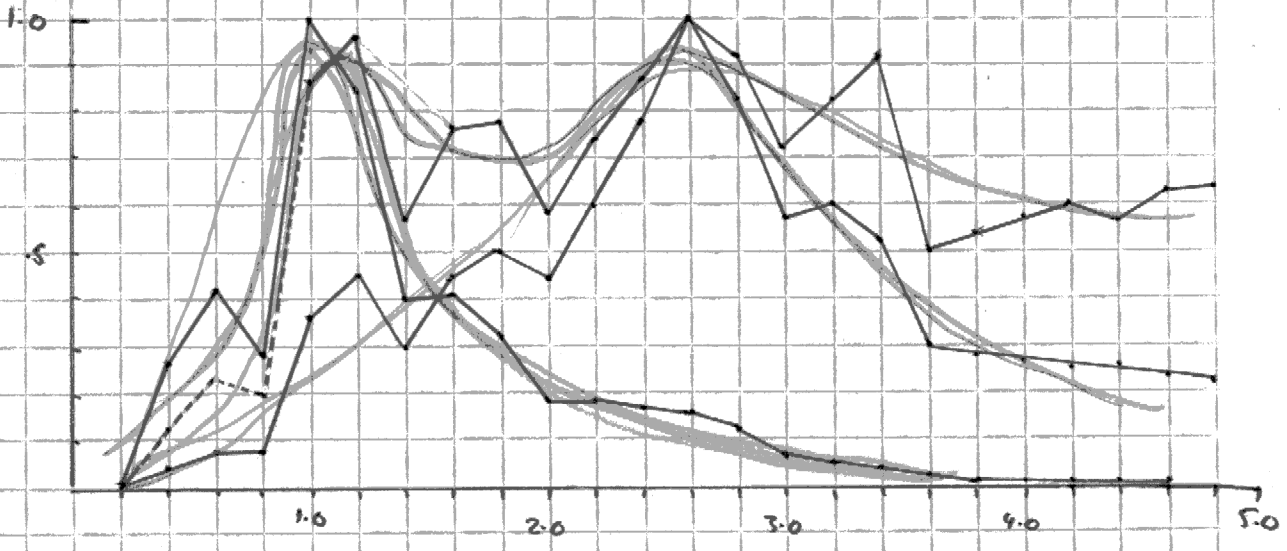
Support category :

Abstract : STP is a statistical packa
knowledge of the DECsyst
University.
STP provides the following
1) Measures of cen
2) Z Scores
3) 1 or 2 sample K
4) Correlation :

5) t-tests and cor
6) Mann-Whitney U-
7) Wilcoxon rank
8) Analysis of var
9) Regression
10) Factor analysi
11) t, F and chi-s
12) Exponential sm
13) Scatter-plot,
14) Frequency dist
15) Crosstabulatio

STP is easy to learn and u


(1.1)
PREYSIM
LOGN (1.5)
PREYSIM TGAIN
BENFIT
30
20
10
4
0.5
1.0
1.5
2.0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