

FETCH

WHAT IS THE FILE NAME AND EXTENSION? HANDLE.DAT

HOW MANY INPUT VARIABLES? 2

WHICH COMMAND? NAME

VAR 1? PSFS

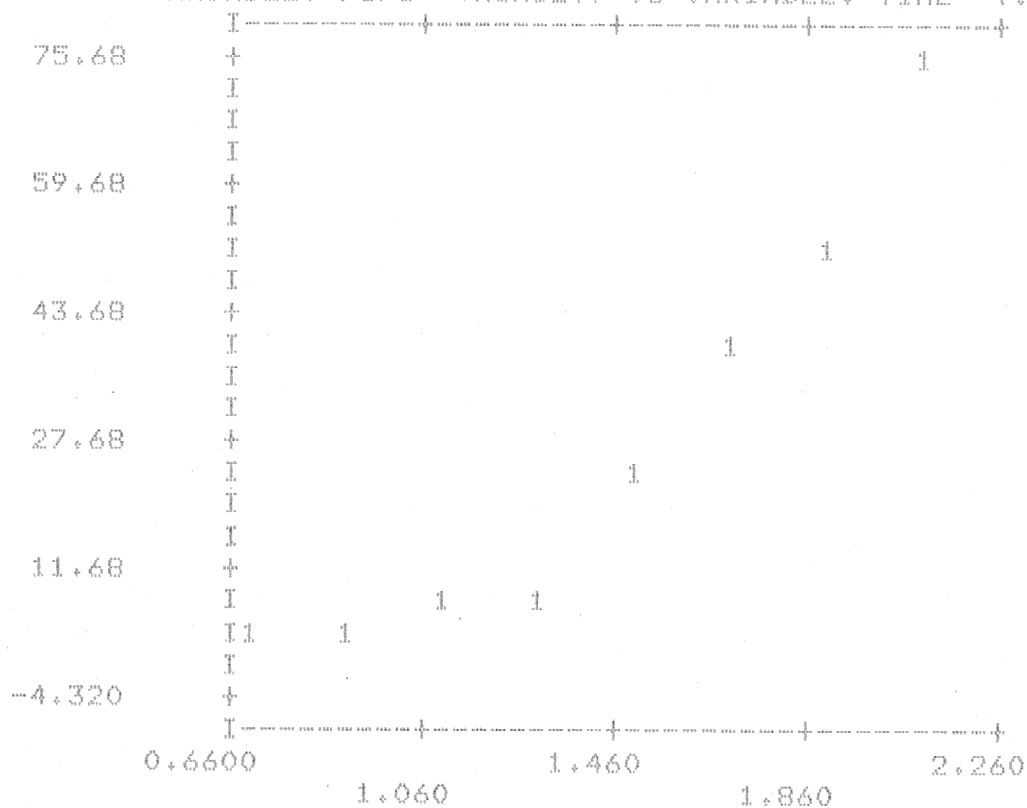
VAR 2? TIME

WHICH COMMAND? PLOT

WHICH IS THE HORIZONTAL VARIABLE? PSFS

WHICH IS THE VERTICAL VARIABLE? TIME

PLOT OF VARIABLE: PSFS (HORIZ.) VS VARIABLE: TIME (VERT.)



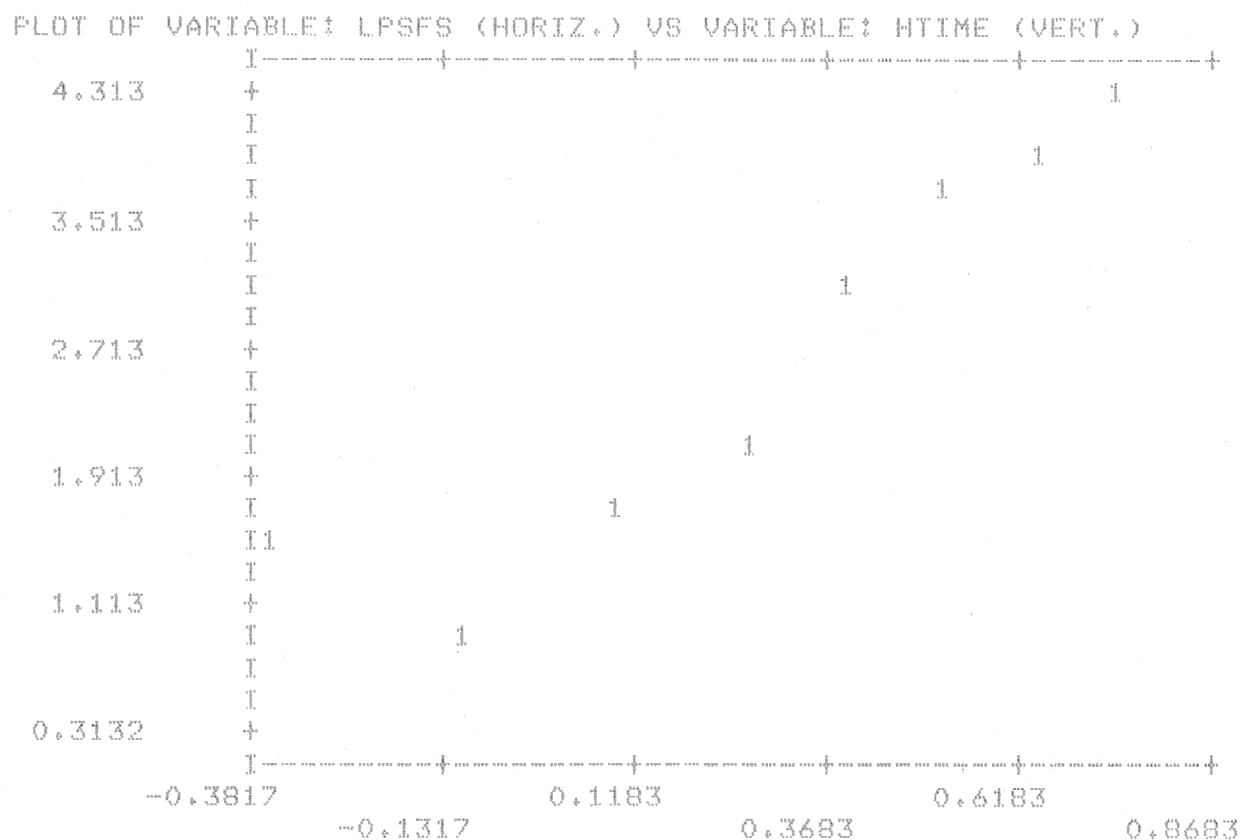
WHICH COMMAND? TRANS
?HTIME=LN(TIME-1)

VARIABLE: HTIME HAS BEEN CREATED
 ?LPSFS=LN(PFSFS)
 VARIABLE: LPSFS HAS BEEN CREATED
 ?

WHICH COMMAND? PLOT

WHICH IS THE HORIZONTAL VARIABLE? LPSFS

WHICH IS THE VERTICAL VARIABLE? HTIME



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.

0.04 - 0.06

- 0.01 - 0.08 - 2.97, 11.13, 4.65, 2.64
- 0.081 - 0.10 - 2.00, 3.49, 2.00, 6.85, 4.29, 4.99, 2.48
- 0.101 - 0.12 - 8.41, 7.56, 6.31, 6.05, 3.20
- 0.121 - 0.140 - 8.31, 9.86, 7.67, 5.56, 3.57, 5.31, 6.60, 6.51, 11.19, 5.90, 22.92
- 0.141 - 0.160 - 4.94, 38.75, 29.00, 6.25, 9.97, 4.74, 72.99, 16.79
- 0.161 - 0.180 - 35.26, 27.92, 28.21, 37.14, 4.97, 176.00, 108.35, 6.87, 5.25, 7.78, 4.27
- 0.181 - 0.200 - 82.00, 34.26, 68.58, 85.45, 33.69, 45.07, 42.14, 30.76, 54.88, 76.16, 40.3, 31.53
- 0.201 - 0.22 - 109.91, 33.19, 59.12, 113.54, 165.00, 32.81, 16.22
- 0.221 - 0.24 - 27.61
- 0.241 - 0.26 - 218.1

	n	\bar{X}	σ	SE _e	t _{crit}	95% CI
0.7	4	5.34	3.95	1.975	2.776	5.48
0.9	7	3.73	1.79	0.676	2.365	1.6
1.1	5	6.31	1.98	0.885	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

On h-1.

0.7 5.34 2.48

0.9 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

$$a/b = -0.82 \quad 0.438$$

$$\text{Slope} = 2.478 \quad 24.78$$

$$b = 0.438 \quad 24.78 \text{ PSFS}$$

24.78

$$r = 0.96$$

24.78 PS/FS

$\cdot 06 - \cdot 08 \text{ --- } \cdot 065, \cdot 065, \cdot 078 \text{ ~~081~~ ~~082~~ } \cdot 074$
 $\cdot 081 - \cdot 10 \text{ --- } \cdot 085, \cdot 093, \cdot 082, \cdot 091, \cdot 091$
 $\cdot 101 - \cdot 12 \text{ --- } \cdot 104, \cdot 115, \cdot 115, \cdot 105, \cdot 105, \cdot 107, \cdot 107$
 $\cdot 121 - \cdot 14 \text{ --- } \cdot 125, \cdot 131, \cdot 140, \cdot 122, \cdot 122, \cdot 137, \cdot 130, \cdot 130, \cdot 126, \cdot 130$
 $\cdot 141 - \cdot 16 \text{ --- } \cdot 146, \cdot 148, \cdot 152, \cdot 158, \cdot 145, \cdot 154, \cdot 148, \cdot 160, \cdot 144$
 $\cdot 161 - \cdot 18 \text{ --- } \cdot 174, \cdot 166, \cdot 174, \cdot 174, \cdot 166, \cdot 172, \cdot 172, \cdot 167, \cdot 165, \cdot 176$
 $\cdot 181 - \cdot 20 \text{ --- } \cdot 191, \cdot 198, \cdot 182, \cdot 196, \cdot 173, \cdot 196, \cdot 196, \cdot 196, \cdot 199, \cdot 193, \cdot 199, \cdot 199, \cdot 185$
 $\cdot 201 - \cdot 22 \text{ --- } \cdot 217, \cdot 217, \cdot 210, \cdot 208, \cdot 205, \cdot 203, \cdot 210$

<u>X</u>		
$\cdot 07$	$\cdot 0705$	$\cdot 07$
$\cdot 09$	$\cdot 0884$	
$\cdot 11$	$\cdot 1083$	
$\cdot 13$	$\cdot 1293$	
$\cdot 15$	$\cdot 1505$	
$\cdot 17$	$\cdot 1706$	
$\cdot 19$	$\cdot 1925$	
$\cdot 21$	$\cdot 21$	

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	216 12 492A 10 10010 900 0
35.26	0.174000	0.004935	3.533978	12) CLOSUREPHOTOT
34.26	0.198000	0.005779	3.504355	14) ELONGATION OF
27.92	0.166000	0.005946	3.292870	13) SCORREL-2101
3.49	0.093000	0.026648	0.912283	15) EXHIBITION OF
28.21	0.174000	0.006168	3.303585	11) 1' 2' 3' 4' 5' 6'
68.58	0.182000	0.002654	4.213312	16) ESCORT 90-121
37.14	0.174000	0.004685	3.587400	5) REGISTRATION
109.91	0.217000	0.001974	4.690522	8) VORTEX OF 101
4.97	0.166000	0.033400	1.378766	1) DIFFUSION OF
4.94	0.146000	0.029555	1.371181	6) HUB-211000 10-
7.56	0.115000	0.015212	1.880991	2) 1-10012 900 001
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	4) COLLECTION 1
108.35	0.172000	0.001587	4.676095	3) 1 OF 3 20010 0
38.75	0.148000	0.003819	3.630985	5) 2 20010 0
29.00	0.152000	0.005241	3.332205	1) REGISTRATION OF
6.25	0.158000	0.025280	1.658228	216 1101000 100 1010010
9.86	0.131000	0.013286	2.181547	211010101
7.67	0.140000	0.018253	1.897620	10010000 01 100 100101
5.56	0.122000	0.021942	1.517323	216 12 4 211010101 10000
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	21101010101 10010
9.97	0.145000	0.014544	2.193886	
4.74	0.154000	0.032489	1.319086	1101010101
113.54	0.208000	0.001832	4.723309	1001010101
72.99	0.148000	0.002028	4.276527	
16.79	0.160000	0.009529	2.759377	10 1010101 10101010101
33.69	0.196000	0.005818	3.487069	
45.07	0.198000	0.004349	3.785779	1010101
5.31	0.137000	0.025800	1.460938	
42.14	0.196000	0.004651	3.716981	10101010101 01 10010101 10101
6.60	0.130000	0.019697	1.722767	
6.05	0.167000	0.017686	1.619388	216 10101010101 1001000
6.51	0.130000	0.019969	1.706565	
30.76	0.199000	0.006469	3.393165	1010101
7.78	0.165000	0.021208	1.913977	
3.20	0.107000	0.033438	0.788457	
4.27	0.176000	0.041218	1.184790	216
4.29	0.091000	0.021212	1.190888	10101010101 1001010101 1001010101
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

12	15.88	0.198000	0.003038	4.539233	
13	113.24	Documentation	0.01835	4.532308	DOC:STP.DOC
14	4.14	0.124000	0.023488	1.218089	HLP:STP.HLP
15	3.82	0.132000	0.019241	3.182837	
16	2.52	Advisory	0.033825	1.449818	Applications Group
17	25.15	0.310000	0.002823	4.043310	
18	318.10	Comments	0.001192	2.380228	
19	82.48	0.189000	0.005344	1.459190	
20	3.21	Support category	1.14	0.842809	
21	9.81	0.193000	0.019306	1.396522	
22	2.29	Abstract	0.031843	1.211352	STP is a statistical package
23	1.92	0.140000	0.018323	1.863930	knowledge of the DECsys
24	8.89	0.131000	0.013589	3.181243	University.
25	9.32	0.128000	0.032380	1.426338	STP provides the following
26	36.00	0.125000	0.002341	2.333302	1) Measures of cen
27	28.12	0.118000	0.002816	3.930882	2) Z Scores
28	108.32	0.115000	0.001281	4.939082	3) 1 or 2 sample K
29	119.00	0.115000	0.006813	0.144189	4) Correlation ;
30	22.18	0.311000	0.009238	2.411929	
31	9.82	0.100000	0.012378	1.399745	
32	3.00	0.102000	0.023200	0.000000	
33	9.21	0.112000	0.010332	1.446283	
34	1.29	0.112000	0.012373	1.880881	5) t-tests and cor
35	1.64	0.149000	0.006822	1.211731	6) Mann-Whitney U-
36	4.81	0.199000	0.023400	1.338199	7) Wilcoxon rank
37	108.31	0.311000	0.001814	4.980233	8) Analysis of var
38	31.14	0.114000	0.004982	3.281400	9) Regression
39	98.28	0.181000	0.005924	1.313313	10) Factor analysi
40	58.51	0.114000	0.009198	2.302282	11) t, F and chi-s
41	3.46	0.083000	0.034718	0.313353	12) Exponential sm
42	31.83	0.199000	0.002849	3.365810	13) Scatter-plot.
43	31.39	0.188000	0.009132	3.204232	14) Frequency dist
44	22.39	0.114000	0.004832	2.233818	15) Crosstabulatio
45	3.00	0.082000	0.045200	0.000000	STP is easy to learn and u
46	4.92	0.018000	0.019114	1.584133	
47	2.41	0.104000	0.015399	3.005830	
48	83.00	0.181000	0.003338	4.264448	
49	11.13	0.092000	0.002840	3.112201	
50	8.92	0.152000	0.012332	1.894311	
51	3.81	0.092000	0.001501	0.110036	

NOTE: 6/1/82, 6/1/82, 6/1/82, 6/1/82

