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Date: 12/1/69

Subject: Running the BASIC program
RNDSTR on LEASCO's
RESPONSE system.

LEASCO uses a Hewlett-Packard
2116 mini-computer with 16 bit words.
They have a 5-6k supervisor & allow
user programs of ~10k. They have
two systems running 24hrs/day with a
maximum of 16 users/system.

I ran two tests of the program on their system. The first on a Saturday afternoon (11/~~28~~²⁹/69), and the second early Monday morning (12/1/69). Both runs took about 69 minutes. It appears that I was the only one on during these runs.

Response to a system command is almost always no longer than it takes for a carriage return.

I have been using both of their systems during the month of November, and to my knowledge there have been no crashes.

LIST
RNDSTR

```
10 DIM A(1000)
20 PRINT "
30 PRINT "          LEASCO BASIC"
40 PRINT "          THE CHALLENGER"
50 PRINT "RANDOM NUMBER GENERATOR WITH SORT ROUTINE"
60 PRINT
70 PRINT "ENTER NO. OF RANDOM NUMBERS DESIRED, PRINTOUT FREQUENCY"
80 INPUT N,H
90 FOR I=1 TO N
100 LET A(I)=RND(-1)
110 NEXT I
120 LET G=0
130 LET M=N-1
140 FOR I=1 TO M
150 LET P=0
160 LET K=I
170 FOR J=K TO N
180 LET P=P+1
190 IF A(I) >= A(J) THEN 230
200 LET D=A(I)
210 LET A(I)=A(J)
220 LET A(J)=D
230 NEXT J
240 LET G=G+P
250 NEXT I
260 FOR J=1 TO N STEP M ————— H
270 PRINT A(J)
280 NEXT J
290 PRINT "ITERATIONS = ";G
300 END,
```

RUN
RNDSTR

LEASCO BASIC
THE CHALLENGER

RANDOM NUMBER GENERATOR WITH SORT ROUTINE

ENTER NO. OF RANDOM NUMBERS DESIRED, PRINTOUT FREQUENCY

?1000,100

.996757

1.52602E-05

ITERATIONS = 500499.

DONE

11:43 am
11/29/69

~ 69
minutes

12:52 pm

LIST
RND\$RT

```
10 DIM A[1000]
20 PRINT "          LEASCO BASIC"
30 PRINT "          THE CHALLENGER"
40 PRINT
50 PRINT "RANDOM NUMBER GENERATOR WITH SORT ROUTINE"
60 PRINT
70 PRINT "ENTER NO. OF RANDOM NUMBERS DESIRED, PRINTOUT FREQUENCY"
80 INPUT N,H
90 FOR I=1 TO N
100 LET A[I]=RND(-I)
110 NEXT I
120 LET G=0
130 LET M=N-1
140 FOR I=1 TO M
150 LET P=0
160 LET K=I
170 FOR J=K TO N
180 LET P=P+1
190 IF A[I] >= A[J] THEN 230
200 LET D=A[I]
210 LET A[I]=A[J]
220 LET A[J]=D
230 NEXT J
240 LET G=G+P
250 NEXT I
260 FOR J=1 TO N STEP H
270 PRINT A[J]
280 NEXT J
290 PRINT "ITERATIONS = ";G
300 END
```

RUN ←
RND\$RT

1:23 am

12/1/69

LEASCO BASIC
THE CHALLENGER

RANDOM NUMBER GENERATOR WITH SORT ROUTINE

ENTER NO. OF RANDOM NUMBERS DESIRED, PRINTOUT FREQUENCY
?1000,100

STOP
TIME

1:27:30

12/1/69

CONSOLE TIME = 8 MINUTES. TOTAL TIME = 1288 MINUTES.

RUN
RNDSTR

LEASCO BASIC
THE CHALLENGER

RANDOM NUMBER GENERATOR WITH SORT ROUTINE

ENTER NO. OF RANDOM NUMBERS DESIRED, PRINTOUT FREQUENCY
?1000,100

- .996757
- .894378
- .779259
- .701593
- .563514
- .474945
- .365505
- .273798
- .187943
- .097892

ITERATIONS = 500499.

DONE
TIME

2:36

12/1/69

CONSOLE TIME = 77 MINUTES. TOTAL TIME = 1357 MINUTES.

BYE

077 MINUTES OF TERMINAL TIME

OFF AT 02:36

~ 69 minutes