ADOLPH BASSER
COMPUTING LABORATORY

SILLIAC CODE C15

TITLE	Print Sets of Order Pairs in Sexademical Form and their Locations.
TYPE	Special (Post Mortem Checking).
NUMBER OF WORDS	19.
MEMORY LOCATION	1005 - 1023.
TEMPORARY STORAGE	0, 1, 2.
DURATION	Printing Time.
DESCRIPTION	This program will print the contents of selected groups of ten consecutive locations as order pairs in sexadecimal form preceded by their respective decimal locations. Each group is selected by reading in a two digit decimal number.

After the program has been read in, it will stop. A tape containing any of the two-digit decimal numbers, 00, 01,..,99 should then be placed in the reader. (Note; the machine copy of the program has at the end of it all of the numbers from 00 to 99.) When the machine is started again, it will read in the first two-digit number and start printing the ten consecutive locations and their contents as order pairs beginning with the decimal location which is ten times the number read in. The machine will then stop (if the black switch is set to "obey"). If it is started again, it will read in another two-digit number and repeat the process.

If a location contains merely zeros, its address only will be printed. Also, if the right hand order is 00000, only the left hand

order is printed. Each location, in general, is printed out as follows:

2 sexadecimal instruction digits, a space,
3 sexadecimal address digits, a space,
2 sexadecimal instruction digits, a space,
3 sexadecimal digits.

At the beginning of each group of ten locations to be printed, the hundreds digits and the tens digit of the first address of the group is printed followed by a carriage return and line feed. Thereafter, the order pairs are printed preceded by only the units digit of their location. An example of a typical format is

```
     50
0    L5   3SA   7N   20L
1    50   1J2   N6   04S
2    24   3F7   62   028
3
4    79   0K5   40   223
.
.
9    50   175
```

Location 503 contains zero. Location 509 has 00 0.0 as its right hand order.

CODED AND
CHECKED BY N. Findler.
APPROVED BY J M.B.

LOCATION	ORDER	NOTES
0	81 028 40 001	
1	81 028 40 002	
2	26 000 00 00K	Bootstrap.
1	81 028 40 000	
•	F5 001 40 001	
1	81 028 40 3FN	
3FJ	92 085 81 008	from 3LL' 2CR/LF
3FF	00 020 82 008	Read in and print out hundreds digit and tens digit.
3FL	16 004 N0 000	
3L0	14 024 50 000	
3L1	74 002 75 002	x 10 x 2^{-39} x 10 x 2^{-39}
3L2	N2 3L5 39 000	Insert the address of the first order pair.
3L3	41 000 92 061	Clear counter. from 3LL CR/LF
3L4	L5 000 00 024	
3L5	82 001 04 (000)	Print 0 9. by 3L2, 3LN'
3L6	40 001 L3 001	from 3LS'
3L7	36 3LN 92 201	T.C. if empty word or empty R.H. order.

LOCATION	ORDER	NOTES
3L8	L5 001 82 008	Print function digits space.
3L9	92 201 00 001	
3LK	62 00N 10 014	Print address digits. Get rid of (Q).
3LS	02 014 26 3L6	
3LN	F5 3L5 42 3L5	Increase the address of the location to be printed.
3LJ	F5 000 42 000	
3LF	L0 002 00 006	
3LL	32 3L3 24 3FJ	T.C. if not 9 yet.
0	92 2N1 24 3FJ	End.