

ADOLPH BASSER  
COMPUTING LABORATORY

SILLIAC CODE C7

TITLE           Transfer-search.

TYPE            Post-mortem.

NO. OF WORDS   22: 0, 1, 2, 3FJ - 3LL.

DESCRIPTION    C7 is similar to C6, the important difference being that instead of searching for all orders with a given address it confines its attention to control transfer orders (i.e. orders with function digits 2 or 3 with the specified address.

C7 is read in with a bootstrap. Then a three character sexadecimal address is placed in the reader and the machine started with the black switch. The address is read in and any control transfer to the given address is printed out as follows: three digit sexadecimal address of location of order, space, sexadecimal word which contains the transfer-control in question, carriage return/line feed.

The machine then stops. It may be started with the black switch in which case it will search for control transfer to the preceding address and so on. If started with the white switch a new address will be read in.

CODED BY J.C. Butcher.  
APPROVED BY J.M.B.  
December, 1957

| LOCATION | ORDER    |        | NOTES         |
|----------|----------|--------|---------------|
|          | 80 028   |        |               |
|          | 40 001   |        |               |
|          | 80 028   |        |               |
|          | 40 002   |        |               |
|          | 26 000   |        |               |
|          | 00 000   |        | Bootstrap.    |
|          | 80 028   |        |               |
|          | 40 000   |        |               |
|          | F5 001   |        |               |
|          | 40 001   |        |               |
|          | 80 028   |        |               |
|          | 40 3FN   |        |               |
| 3FJ      | K6 3FF   |        |               |
|          | L5(000)← | By 3L8 |               |
| 3FF      | 40 001←  |        |               |
|          | L3 001   |        |               |
| 3FL      | 36 3L8 ← |        | Is word zero? |
|          | 50 001   |        |               |
| 3LO      | J0 3LL   |        |               |
|          | S5 000   |        |               |
| 3L1      | L0 000   |        |               |
|          | 40 002   |        |               |
| 3L2      | L3 002   |        |               |
|          | 32 3L4←  |        |               |
| 3L3      | 50 001   |        |               |
|          | 00 03S   |        |               |
| 3L4      | 26 3FF←  |        |               |
|          | L5 3FJ←  |        |               |

| LOCATION | ORDER              |        | NOTES                                  |
|----------|--------------------|--------|----------------------------------------|
| 3L5      | 00 01N<br>82 00N   |        | Print location of order.               |
| 3L6      | 92 201<br>L5(000)  | By 3L9 |                                        |
| 3L7      | 82 028<br>92 081   |        |                                        |
| 3L8      | F5 3FJ ←<br>42 3FJ |        |                                        |
| 3L9      | 42 3L6<br>L0 3L4   |        |                                        |
| 3LK      | 32 3FJ<br>L5 000   |        |                                        |
| 3LS      | L4 3LL<br>20 3LJ   |        | Stop/start with black or white switch. |
| 3LN      | 00 000 ←<br>80 0CN |        |                                        |
| 3LJ      | 00 014 ←<br>46 000 |        |                                        |
| 3LF      | FJ 3L1<br>22 3L8   |        |                                        |
| 3LL      | F0 3LL<br>00 000   |        |                                        |
| 000      | (92 081<br>92 101) |        |                                        |
| 000      | (92 341<br>92 2N1) |        |                                        |
| 000      | (92 1N2<br>92 085) |        | Heading.                               |
| 000      | 20(3LN)<br>00 000  | By 3LJ |                                        |