Version 2 January 2022. **N3X4**

Software and sample programs for the English Electric KDP10 and KDF8 computers.

1. KDP10.

At the time of writing, no significant details have come to light about the system software of the KDP10 computer.

Below is an example of a very simple KDP10 program fragment, as set out on a KDP10 coding sheet. The purpose of the program is a loop of instructions that reads in data from two mag tape files and writes to a third file. The first file, held on tape Unit 10, is a reference file containing fixed-format format records laid out as follows:

<part number> <stock balance> <total issues> <total receipts>.

The second file, held on Tape Unit 20, is a transaction file containing fixed-format format records laid out as follows:

<part number> <quantity issued>.

The third file, held on Tape Unit 30, is an updated version of the transaction file which has new values of <stock balance> and <total issues> as determined by the latest transaction information.

The program starts at High Speed Memory (HSM) address octal 010200

HSM	***OP***	***A***	***N***	***B***	***Instruction mnemonic and comments***
010200	14	010000	00	10 00 00	LRF, linear read forward. Read in reference data.
010210	14	010100	00	20 00 00	LRF, linear read forward. Read in a transaction.
010220	51	010030	00	01 01 14	DA, decimal add. Update total issues.
010230	52	010020	00	01 01 14	DS, decimal subtract. Update stock balance.
010240	12	010000	00	30 00 00	LW, linear write. Produce an updated reference file.
010250	71	101200	00	00 00 00	TC, transfer control. Jump back to High Speed Memory (HSM) address 010200
010260					

2. KDF8.

At the time of writing, no significant details have come to light about the system software of the KDF8 computer.