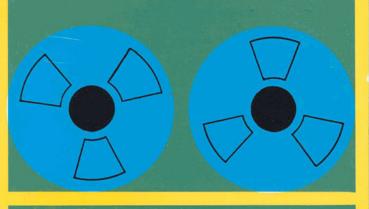
I.C.T 1900 DATA PROCESSING SYSTEM









CENTRAL PROCESSOR

1901 series processors. Multiple-programming.

Modular construction.

1902 series processors — as 1901, but incorporating high-speed floating point unit.

Storage capacity

8,192, 16,384 or 32,768 words. Further fast access store may be added later if required.

Word length

24 binary digits plus parity bit. Can represent four alpha-numeric characters.

Cycle time

2 micro-seconds.

Instruction form

One word length. Repertoire of 100 instructions. Most instructions are two address, store location and accumulator. Single characters can be addressed.

Accumulators

First eight store locations of each program. Three of these also used for indexing.

Specimen timings

Basic 1901 processor:

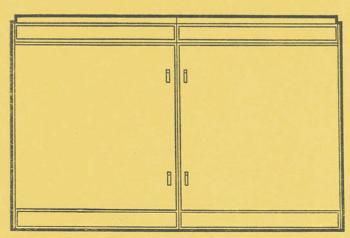
 $A \pm B \rightarrow A$ 7 micro-seconds

A × B - A 40 micro-seconds

A ÷ B → A 43 micro-seconds

1902 processor-floating point

Argument 37 bits plus sign, exponent 8 bits plus sign. Time in micro-seconds. Add/subtract 12, Multiply 26, Divide 47, Load/store 7.



PERIPHERAL EQUIPMENT

Maximum operating speeds:

Cards

80-column

ln - 600

Out - 100 cards

a minute

Paper tape

5, 7 or 8 track

In - 1,000 or 300

Out - 110 rows

a second

Printer

120, or 160 characters per line.

1,200 lines a minute maximum.

Character set, 64 including space.

Interrogating typewriter

10 characters a second.

Document processor

MICR - 1,200 documents a minute.

Magnetic tape

Transfer rate 24,000 or 66,000 characters a second, selectable by operator. Tape and reel compatible with variety of systems. Up to

three tape channels in 1900 system.

Recordina

6 tracks plus parity. Read after write parity check and longitudinal

block check

Magnetic discs

Units storing 33 or 66 million characters. Multiple units in system.

Motion time - 190 milli-seconds average

- 30 milli-seconds average Latency

Access - 220 milli-seconds average

Transfer rate - 60.000 characters a second inner zones

100,000 characters a second outer zones Dual access model can be specified for concurrent transfer and

track selection.

Up to 24 magnetic tape units and 19 other peripheral devices in system. Facilities for analogue to digital converters, communi-

cations links and duplex working, 1900 to 1900.

I.C.T 1900 SOFTWARE

PLAN assembly language

FORTRAN (Fortran II)

MAC (Manchester Autocode, basic facilities)

Input/Output package

Magnetic Tape Housekeeping package

General Sort Program

Library routines, including PAYE, mathematical functions, etc.

and in preparation:

RPG, a comprehensive intermediate commercial language

EMA (Extended Manchester Autocode)

I.C.T Rapidwrite and COBOL

ALGOL

Disc Store routines

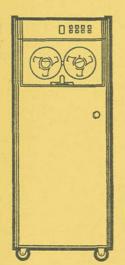
Library additions: matrix scheme

multiple regression

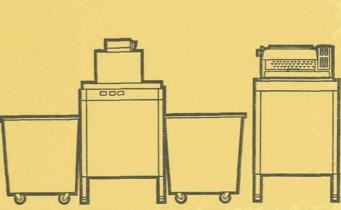
linear programming

transportation

This specification is subject to modification.







International Computers and Tabulators Limited

Head Office:

17 Old Park Lane, London W.1. Telephone: Hyde Park 8080

Sales:

I.C.T House, Putney Bridge Approach, London S.W.6.

Telephone: Renown 3322

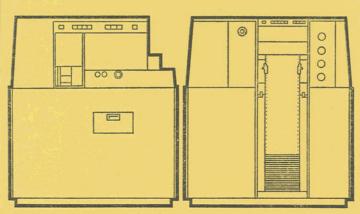
Wolverhampton.

and offices in the following places throughout the United Kingdom.

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Egypt, Finland, France, Ghana, Holland,
Hong Kong, India, Iran, Iraq, Ireland,
Italy, Japan, Jordan, Kuwait, Lebanon,
Libya, Malaysia, Malta, Mauritius, Mexico,
New Zealand, Nigeria, Norway, Pakistan,
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