CESIL Program headers

** followed by any text

*C followed by any text (batch mode

only)

program name any text (batch mode only)

CESIL statements

IN Input data item to accumulator

OUT Output content of accumulator

LOAD TOTAL Copy content of TOTAL into

accumulator

STORE TOTAL Copy content of accumulator into

TOTAL

ADD A Add content of A to accumulator

SUBTRACT A Subtract content of A from

accumulator

MULTIPLY A Multiply accumulator by content

of A

DIVIDE A Divide accumulator by content of

A and truncate to an integer

JUMP L Jump to the instruction labelled L.

JIZERO NEXT Jump to the instruction labelled NEXT if the content of the

accumulator is zero; otherwise obey the next instruction in sequence

JINEG TOP Jump to the instruction labelled

TOP if the content of the

accumulator is negative; otherwise obey the next instruction in

sequence

LINE Move to a new line

PRINT "PRIME" Print PRIME on the current line

if there is room, otherwise print

the text on a new line

HALT Stop execution of the program

Notes

Constants may be used with LOAD, ADD, SUBTRACT, MULTIPLY and DIVIDE, and must be signed integers in the range – 8388608 to +8388607.

Identifiers and labels consist of up to six characters starting with a letter.

A comment may be written on the same line as a CESIL statement and is separated from it by a space.

Complete comment lines may be included in a program and such lines begin with (

Lines inserted between ** and *C header cards are treated as comments.

After the last CESIL instruction % is written on a new line.

If any data items are required, they are written on one or more lines with a space between each data item. All data items are integers.

The whole program is terminated with * on a new line.

```
** UMBRIDGE SCHOOL
e.g.
    *C WILLIAM KILGOUR
    SQUARE
    LOOP
           IN
           JINEG
                      END
           OUT
           STORE
                      NUMBER
           PRINT
                      "SQUARED IS"
           MULTIPLY
                      NUMBER
           OUT
           LINE
           JUMP
                      LOOP
           HALT
    END
    %
    5 72 111
    67 -1
```

This publication is for reference purposes only, It should not be regarded as a full specification of any ICL products or services.

Publication 3429

© International Computers Limited 1975

Published by ICL-CES

Computer House, 322 Euston Road, London NW1 3BD

Printed by ICL Printing Services

Works Road, Letchworth, Hertfordshire SG6 1JY