CLOCK FUNCTION FOR LISP 1.5

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Abstract: This paper describes a clock function for LISP 1.5 The following functions will define an atom called CLOCK.

The value of clock is the current time at any instant:-

CSETQ (CLØCK 10)

EVAL ((RPLACD CLØCK (CADR 77773Q)) NYL)

The constant 77773Q is the complement of the location of the core clock, cell 5 on the 7090.

Note that the following use will not give the desired result, a variable, Tl, which retains the value of the clock when it was called:-

SETQ (T1 CLØCK)

This results because the value of T1 is a pointer to cell 5 which is continuously changing.

The following function has the desired result:-

(TIME (LAMBDA NIL (PLUS CLØCK O)))

Mote that SETQ (T1 (TIME)) produces the desired result because a special cell is created to hold the value of CLØCK+O which will not change with time.

HE/AFG.