The Clock Generator

The clock generator in MacBreadboard can operate in one of four modes. The modes are selectable from the 'Clock' menu, and identifiable by a check mark in the menu and a unique picture on the trainer. Typical frequencies generated are 10Hz and lower.

Free-Run a continuous square wave signal is generated.

The frequency is adjustable by sliding the simulated control

right or left.

Positive pulse -In this mode, a button is shown in the clock

function area of the trainer. Pressing the button causes a

clock 'pulse' to be generated. The pulse is initially low, then

it goes high and finally it returns low again. The frequency

is determined by the Free-Run clock's setting. A step function

may be simulated by pressing and holding the mouse button.

When the button is released, the clock output returns to its

initial state.

Negative pulse -Similar to the positive pulse except that the

initial and final states of the clock are HIGH, not low.

Step -Or half pulse. Clicking on the step button generates a state change in the clock. If it was HIGH, it is now LOW

and vice-versa. (Holding the mouse button down has no effect

in step mode.)