

Cuckoo Clock User Guide

Installation

The program will run with QB64 GL1.2 and higher. Use the URL to download the zip file and extract the folder "Cuckoo Clock" into your QB64 folder. (When extracting the folder, be careful that the extraction method doesn't create a further level of folder with the same name). From the IDE, load the program "Cuckoo Clock.bas" and make sure that you have the Run Option "Save EXE in source folder" checked.

[https://www.dropbox.com/s/tq4vpfgfgkf9le5/Cuckoo Clock.zip?dl=1](https://www.dropbox.com/s/tq4vpfgfgkf9le5/Cuckoo%20Clock.zip?dl=1)

This program creates a representation of a cuckoo clock which has an alarm. The clock is a standard 12-hour analogue face (as would be a real clock) with a swinging pendulum. At each hour, a "cuckoo" pops out and chimes the number of hours. The pendulum swings under proper gravity mathematics, and it swings with a 1 second tick (2 second period) and this timing is independent of the computer motherboard clock. All timing events of the cuckoo clock are taken from the computer motherboard.

The F-keys can be used for additional functionality.

At any time, F3 can be pressed to give the chimes of the next hour, and then the time will reset to normal.

F4 can be pressed to turn on or off the clock tick.

Pressing F5 allows a time to be set for an alarm (F1 sets the hour, F2 sets the minutes). F5 cancels a set alarm. There is a 15 second delay after the set time when an audible alarm is sounded. This delay occurs in order that the alarm does not coincide with the hour chime if the alarm is set for the hour.

Esc to quit.

This clock has an Advent Calendar function. During the days 1st to 25th December, special things happen. Selections from 26 Advent images are displayed on the hour. 26 default images are supplied, but you may find that younger family members may enjoy the Advent function if relevant images appear. You may create up to 26 of your own .png images with files named Advent1.png to Advent26.png. The displayed image size is quite small and it is suggested that your images are not much larger than 300x300 pixels as there would be noticeable loss of detail. Any images of your own need to be saved in the "Cuckoo Clock" directory.