ChipEm

COLLABORATORS

	TITLE : ChipEm		
ACTION	*NAME*	*DATE*	*SIGNATURE*
WRITTEN BY		August 9, 2022	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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ChipEm

1.1   ChipEm.guide

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                          Chip 8 Emulator v0.4ß
        by Pedro Gil (Balrog Soft)



             What is Chip 8?

             How work Chip 8 Emulator?

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1.2   What is Chip 8?

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               What is Chip 8?

   Chip 8 was an old console with a simple graphics (like Atari 2600)
 with only two colors, and one beep of sound.

 With this program you will play old games. The oldest game Pong
 dont work in my emulator, but others work fine.

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1.3   How work Chip 8 Emulator?

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                    How work Chip 8 Emulator?

   The keyboard of original     In the emulator the keys are:
     Chip 8 machines was:          ( Numeric keys in Amiga )

      1 2 3 C                       [ ] / *
      4 5 6 D                       7 8 9 -
      7 8 9 E                       4 5 6 +
      A 0 B F                       1 2 3 Enter
```

   Click on the emulator and you will seen a text gadget("No game..."),
 buttons "INS", "Start", "Quit", a cycle called Display with "Window"
 and "Screen", a cycle called "Run" with Emulation and Monitor, a
 cycle called "Sound" with on and off, a button called "Key>Joy", and
 a bar with speed of emulation.

   With Help key you can load this guide from the program.

    How to run a game

       Click on "Ins" to load a game (maze for example)

 set display in Window (on amiga window), or screen (more faster)

   And click Start

 |-->   In screen display you can exit with F10 <---|

    About "Run" gadget option use this gadget to emulate the Chip 8,
 or emulate and monitoring the game. In monitor mode you will seen at
 the end of the screen the internal registers of Chip 8. In the top
 you will seen the emulate chip 8 and the disassembler. Pressing a key
 a instructions are executed.

   With speed, you can control the speed of emulation, 100% is the
 fastest emulation.

   Sound option if you want turn off the sound

   Key to Joystick, this is an option to translate the keys of Chip 8
 to Joystick, you must write the real key of Chip 8, not the emulated keys.

 This means that, for example, to translate B key such as Joy Up, you must
 entry the letter B and not the key '3' of the amiga emulated keyboard.

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## 1.4  Bugs and other things

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                    Bugs and other things
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This is my first emulator that I do, please send me emails, with bugs ideas, information of Chip 8, all!!!

Write to me : balrog@teleline.es

and visit my web: http://www.balrogsoft.8m.com

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1.5 History

History

Version 0.4ß

- Sprite collision enabled

Version 0.3ß

- Fixed maths intructions bugs
- Emulated all opcodes of Chip 8 (Except Super Chip 8 opcodes)
- Add sound on/off option
- Add Key to Joystick Option (only works in screen mode)

Version 0.1ß

- Fixed the xor drawing mode original of Chip 8, graphics are good
- Duplicated the window size
- Add new opcode key VR

Version 0.001ß

- First version released
- Emulated 31 opcodes of 41
- Emulated sound
- Emulated very bad graphics
- Emulated Input hexadecimal keyboard

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1.6 List of thing to do

List of things to do

- Emulate the opcodes of Super Chip 8 (with better graphics)
- A better time register emulation
- Fix the bugs of carrys operation, and others things...

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