

Gavon

<https://chessprogramming.wikispaces.com/Gavon>

Gavon is a portable, commercial chess system by Josu Bergara Ede with the look and feel of the dedicated chess computers of the 80's, using Windows10 surftab, Raspberry Pi, pcDuino, or odroid with LCD and Keypad unit or TFT displays, and a SD memory card with pre-installed open source chess engines.

Gavon can be classified as a chess UI similar to Arena or Scid vs. PC with the chess engines integrated. It is written in C, like the chess engines compiled for the ARM processor, running under Linux, supporting both the Universal Chess Interface and the Chess Engine Communication Protocol aka XBoard.



Gavon connected to Saitek Renaissance board using the OSA-Link cable.

Playing Chess

Gavon allows to play chess without connecting either to a PC or monitor. When the Windows10 surftab Raspberry Pi, pcDuino or odroid boots, it will automatically start the Gavon controller program which loads the chess engines available.

Indicated by its LCD, one can select the engine, level and mode of play via the selection buttons. Entering moves is possible via the keypad as well, but Gavon is also able to interface with various USB or Bluetooth Sensory boards, such as the DGT USB Board, DGT Bluetooth Board or Berger's USB Solus Board.

Can be connected to classic chess computers such as Saitek Renaissance using the OSA-Link interface. Gavon has several opening created from world chess champions or from user custom PGN files that can be used to play the games. The played moves can be heard by an external speaker connected to the audio output of the Raspberry Pi.

Available Chess Engines

- Stockfish v. 5.0 by Tord Romstad, Marco Costalba, and Joona Kiiski 2733
- Stockfish v. 6.0 by Tord Romstad, Marco Costalba, and Joona Kiiski 2683
- DON v. 150914 by Ehsan Rashid 2635
- Stockfish v. 3.32 by Tord Romstad, Marco Costalba, and Joona Kiiski 2627
- Ivanhoe 999946f by *Yakov Petrovich Golyadkin* et al. 2545
- Firenzina v. 2.4.1 by Norman Schmidt, Dmitri Gusev and Matthew R. Brades 2520
- Toga II v 1.4 by Thomas Gaksch and Fabien Letouzey 2437
- Protector v. 1.5 by Raimund Heid 2427
- Senpai v. 1.0 by Fabien Letouzey 2425
- Protector v. 1.8 by Raimund Heid 2419
- Protector v. 1.7 by Raimund Heid 2357
- Crafty v.24.1.by Robert Hyatt 2299
- Fruit v. 2.1 by Fabien Letouzey 2297
- Hakkapeliitta v.2 Mikko Aarnos 2294
- Cheng4 v. 0.36c by Martin Sedlak 2279
- DiscoCheck v.3.7 by Lucas Braesch 2278
- Rodent v. 1.2 by Pawel Koziol 2246
- Hakkapeliitta v.1 Mikko Aarnos 2229
- GNU Chess v 5.07 by Chua Kong Sian 2219
- GreKo v. 10.3 by Vladimir Medvedev 2207
- Pepito v1.59-2 by Carlos del Cacho 2205
- Diablo v. 0.5.1 Marcus Prewarski 2100
- RedQueen v 1.1.4 by Ben-Hur Carlos Vieira Langoni Junior 2089
- CPW-Engine v. 1.1 by Pawel Koziol and Edmund Moshammer 2047
- Faile v. 1.2 by Adrien Regimbald 2032
- Jazz by Evert Glebbeek 1978
- Gullydeckel v. 2.16 by Martin Borriss 1967
- Vice v. 1.0 by Bluefever 1953
- Ifrit v. j3.6 by Andrey Brenkman
- Napoleon by Marco Pampaloni 1931
- Claudia v.02 by Antonio Garro 1931
- Jabba v. 1.0 by Richard Allbert 1888
- Sissa v. 2.0 by Christophe Mandin 1867
- Cinnamon v. 1.2b by Giuseppe Cannella 1805
- AdroitChess v.0.3 by Daniel White 1749
- Lime v. 66 by Richard Allbert 1778
- Robocide by Daniel White 1773
- Rocinante v. 2.0 by Antonio Torrecillas 1743
- Bismark v. 1.2 by Evgeny Shtranvasser 1741
- Maverick v. 0.05 by Steve Maughan 1738
- Darky v. 0.5e by Alex Guerrero
- RedQueen v. 0.4 by Ben-Hur Carlos Vieira Langoni Junior 1686
- JFresh v. 0.1.a by Christian Daley 1603
- Rocinante v. 1.01 by Antonio Torrecillas 1565

Josu Bergara Ede from the manual:

I am chess classic computer collector and I decided to program this software because I want to challenge mini-computers using several free software chess engines against my old favorite chess computers. I wanted the mini-computers to play chess without been connected to a monitor or PC, so I decided to use a very simple LCD with five buttons or a TFT display as input and output method. Now you have the same devices and software to play againts chess engines or use the engines to play against another dedicated chess computers. But,if you do not like my device, you always can have a mini-computer and a tested LDC or TFT and a battery to use them as you like.

From the manual:

Connect Gavon to Renaissance boards with Osa-Link follow the next procedure.

1. Connect the Osa-Link cable from the Renaissance board to the mini-computer USB port 32
2. Be sure the settings of the board are speed 1200 baud
3. Press 'function' and 'king' buttons on the Renaissance board. Check if the 'COM' led is iluminated.
4. Go to the [solus] menu and select 'osa-link?' to yes.
5. In [solus] menu try to open event. If event is open the Renaissance should be connected and ready to send the moves as does Solus boards.
6. If you want to play against Gavon, press 'analysis' button on the Renaissance board to desactivate the Renaissance or the module.
7. If you want Gavon to play against Renaissance or the module, press 'normal' button on the Renaissance.