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GiuChess,

a [Chess Engine Communication Protocol](#) compliant [open source chess engine](#) by [Giuliano Ippoliti](#), written in [C](#), and released under the [GNU GPL](#). GiuChess played the [CIPS 2007](#) and [IGT 2013](#). While it is a very original and experimental engine, GiuChess is not designed or implemented to become competitive in terms of playing strength, but fun to play with some winning chances even for casual human players.

Description

GiuChess ^[1] proofs [bitboards](#) ad absurdum, and [generate moves](#) in a [mailbox](#) manner - per [piece](#) with loops over its [directions](#), but [shifts](#), [intersections](#) and conditions for [sliding pieces](#), further checking moves are [legal](#) at generation time. GiuChess applies [alpha-beta](#) with [floating point scores](#) and [bounds](#) with a predefined [depth](#) of 5, or in case of low time, 4 or 3 only. It has no [iterative deepening](#), nor [transposition table](#) and [quiescence search](#). The [evaluation](#) considers [material balance](#), some piece bonuses for occupation near the [center](#), plus a [random](#) score of up to 1/5 pawn value. Instead of using [piece-square tables](#), GiuChess uses bitboard intersections with three disjoint board ring areas, to apply a center bonus.

Selected Games

[I.G.T. 2013](#), [GiuChess](#) - [ProChess](#) ^[2]

```
[Event "I.G.T. 2013"]  
[Site "Omegna (VB)"]
```

```
[Date "2013.11.09"]  
[Round "-"]  
[White "GiuChess 1.0"]  
[Black "ProChess 103 hypercube"]  
[Result "0-1"]
```

```
1.e4 g6 2.Qg4 d5 3.Qf4 dxe4 4.Bc4 Nf6 5.Qe5 Nc6 6.Bb5 Bd7 7.Bxc6 Bxc6  
8.f3 e6  
9.Qc3 a5 10.a3 Bd6 11.fxe4 Bxe4 12.Nf3 Ra6 13.Qd4 Bxf3 14.Qa4+ Bc6 15.  
Qc4 Bxg2  
16.Rg1 Be4 17.Qb5+ Nd7 18.Rg4 f5 19.Rxe4 fxe4 20.Qe2 Qg5 21.b4 Rf8 22.  
Kd1 Qg1+  
23.Qe1 Qg4+ 24.Qe2 Rf1# 0-1
```

Forum Posts

- [GIUChess 1.0 update](#) by [Norbert Raimund Leisner](#), [CCC](#), July 09, 2013

External Links

- [GiuChess Homepage - by JSorel](#)
[GiuChess Xboard-compatible chess engine | Free Games software downloads at SourceForge.net](#)
- [Index of /giuchess](#)
- [Giuchess « G 6](#)
- [GIUChess 1.0 beta2](#) in [CCRL 40/4](#)

References

1. [△] Description based on GiuChess-1.0beta2, [GiuChess Xboard-compatible chess engine | Free Games software downloads at SourceForge.net](#)
2. [△] [13' Campionato italiano « G 6](#)

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CIPS 2007	Jan 6, 2014
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GiuChess	May 8, 2017
Giuliano Ippoliti	Feb 22, 2014
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IGT 2014	Jul 15, 2017

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