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[Home](#) \* [Engines](#) \* **Slow Chess**

**Slow Chess**, (SlowChess, Slow Chess Blitz)

a [WinBoard](#) and [UCI](#) compliant engine chess engine by [Jonathan Kreuzer](#), which also comes with an own [GUI](#). Older versions, Slow Chess 2.82a, and Slow Chess 2.96, not related to the more recent *Slow Chess Blitz*, are [open source](#). Slow Chess is written in [C++](#) with a little [inline assembly](#), and was first released in July 2003 <sup>[1]</sup>. Slow Chess played the [ACCA 2008](#) operated by [Swaminathan Natarajan](#).

## Screenshot



Slow Chess, [Windows GUI](#) <sup>[2]</sup>

## Description

Slow Chess 2.96's internal board is represented by a [10x12 board](#) in conjunction with [piece-lists](#). The [search](#) applies [PVS alpha-beta](#) with [transposition table](#) and [null move pruning](#) inside an [iterative deepening](#) framework with [aspiration windows](#). [Move ordering](#) is enhanced by [IID](#), [MVV-LVA](#), [history heuristic](#), and [killer moves](#). Despite direct [recursion](#), it does not [negamax](#), but conditional min or max. [Checks](#), [recaptures](#), [pawn moves to the 7th rank](#), [single replies](#) and [mate threatening moves](#) are [extended](#) by [fractions](#) of a [ply](#) <sup>[3]</sup>.

[Evaluation](#) considers [material](#) and [piece-square tables](#) with an [lazy](#) exit if outside bounds, and otherwise caches [pawn structure](#) stuff in a [pawn hash table](#), evaluates [king safety](#) along with [king piece tropism](#), and various terms for [pieces](#) such as [trapped bishops](#). All evaluation [scores](#) greater than 4 or less than -4 are [quantized](#) and have its two least significant bits clear to make the scores multiples of  $\pm 4$ .

## Selected Games

[ACCA 2008](#), round 2, [Slow Chess](#) - [Amateur](#) <sup>[4]</sup>

```
[Event "ACCA 2008"]
[Site "Internet Chess Club"]
[Date "2008.11.08"]
[Round "2"]
[White "Slow Chess"]
[Black "Amateur"]
[Result "1-0"]
```

1.d4 Nf6 2.c4 e6 3.g3 d5 4.Nf3 dxc4 5.Qa4+ Bd7 6.Qxc4 Bc6 7.Bg2 Bd5 8.Qd3 Be4  
9.Qd1 Nc6 10.O-O Nb4 11.Nc3 Bc2 12.Qd2 Ne4 13.Qe1 Nd5 14.Ne5 Bb4 15.Bd2 Bxc3  
16.bxc3 f6 17.Rc1 Nxd2 18.Qxd2 Bf5 19.Nc4 Bg4 20.Na5 b5 21.c4 bxc4 22.Rxc4 O-O  
23.Rfc1 Bh5 24.R4c5 f5 25.Nc6 Qf6 26.Bxd5 exd5 27.Ne5 f4 28.Nd7 Qe6 29.Nxf8 Rxf8  
30.f3 fxc3 31.hxc3 Qh3 32.Qe1 Qe6 33.R5xc7 Re8 34.Qd2 h6 35.R1c6 Qxe2 36.Qxe2  
Rxe2 37.Rxa7 Bxf3 38.Rg6 Be4 39.Rgxc7+ Kh8 40.Rge7 Rg2+ 41.Kf1 Rxg3 42.Ra8+ Rg8  
43.Rxc7+ Kxc7 44.Rxe4 dxe4 45.a4 Kf7 46.a5 1-0

## Forum Posts

### 2004

- [My Pick for Strongest Amateur Program \("SlowChess!"\) Commercial?](#) by [Nolan Denson](#), [CCC](#), January 30, 2004
- [SlowChess Blitz rocks !!](#) by [Axel Schumacher](#), [CCC](#), November 22, 2004
- [SlowChess Blitz 2004](#) by [Karl-Heinz Söntges](#), [CCC](#), November 23, 2004
- [More great SlowChess Blitz results!](#) by [Axel Schumacher](#), [CCC](#), November 24, 2004
- [CM9000 Default v SlowChess G-10 20-game match](#) by [John Merlino](#), [CCC](#), November 25, 2004

### 2005 ...

- [SlowChess Blitz WV is stunning is test suites!](#) by [Jouni Uski](#), [CCC](#), October 24, 2005
- [SlowChess 2.96 Windows 64-bit build available](#) by [Jim Ablett](#), [CCC](#), December 19, 2007
- [SlowChess in ACCA](#) by [Swaminathan](#), [CCC](#), November 11, 2008 » [ACCA 2008](#)

### 2010 ...

- [SlowChess 2.96 LS \(Limit Strength\)](#) by [Alexander Schmidt](#), [CCC](#), November 18, 2012
- [Slow Chess](#) by [Fernando Villegas](#), [CCC](#), September 05, 2015

## External Links

- [Slow Chess Blitz, a free chess program](#)
- [Programming Details - Slow Chess | Extensions Used, Detailed Description](#)
- [History of Slow Chess](#)
- [SlowChess](#) from [WBEC Ridderkerk](#)
- [Slow Chess Blitz](#) in [CCRL 40/40](#)
- [SlowChess 2.960e](#) « [Computer Chess News](#)

## References

1. [^ SlowChess](#) from [WBEC Ridderkerk](#)
2. [^ Slow Chess Blitz, a free chess program](#)
3. [^ Programming Details - Slow Chess | Extensions Used, Detailed Description](#)
4. [^ The 2008 Third Annual ACCA Americas' Computer Chess Championships - Results - pgn download](#)

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<a href="#">Alexander Schmidt</a>	May 17, 2016
<a href="#">Eigenmann Endgame Test</a>	Jun 1, 2017
<a href="#">Engines</a>	Mar 10, 2018
<a href="#">Extensions</a>	Apr 19, 2018
<a href="#">Fernando Villegas</a>	Aug 15, 2016
<a href="#">Jonathan Kreuzer</a>	Sep 16, 2017
<a href="#">Mate Threat Extensions</a>	Apr 14, 2012
<a href="#">One Reply Extensions</a>	Dec 31, 2014
<a href="#">Rafael Vásquez</a>	May 26, 2015
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<a href="#">Swaminathan Natarajan</a>	Jun 17, 2015

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