

[Home](#) * [Engines](#) * **Pharaon**



Pharaon ^[5]

Pharaon,

a [WinBoard](#) and [UCI](#) compliant chess engine by [Franck Zibi](#), written in [C++](#). Pharaon evolved from Franck's former program [ZChess](#), which was renamed in April 2001 ^[1]. Pharaon incorporates [object oriented](#) paradigms, and relies on [bitboards](#) ^[2], in particular [rotated bitboards](#) to determine [sliding piece attacks](#). It is a [PV searcher](#) with [iterative deepening](#) and [aspiration windows](#), using a [transposition table](#) with multiple probes, [pawn-](#) and [king safety hash tables](#), [SEE](#) for [move ordering](#) and [pruning](#), [adaptive null move pruning](#) with [R](#) = 2, 3, and heavily prunes not only in [quiescence search](#). Move ordering considers [hash-table move](#), winning [captures](#) by SEE, [killer heuristic](#), [counter move heuristic](#), and [history heuristic](#). [Chess960](#) support was introduced with version 3.3 ^[3], and subsequent "deep" versions with a [parallel search](#) have [tablebase](#) support, a [persistent hash table](#) for [position learning](#) as well as [book learning](#) ^[4].

Table of Contents

[Tournament Play](#)

[Selected Games](#)

[See also](#)

[Forum Posts](#)

[External Links](#)

[Chess Engine](#)

[Pharaoh](#)

[References](#)

[What links here?](#)

Tournament Play

Pharaon participated at the [WMCCC 2001](#) in [Maastricht](#), and already had its debut at the [CCT3](#) online tournament, and short after over the board at [Massy 2001](#). It further played two [Livingston Chess960 Computer World Championships](#), the [Chess960CWC 2005](#) and the [Chess960CWC 2006](#), and further [French Computer Chess Championships](#), [French Programmers Tournaments](#) and [CCT Tournaments](#).

Selected Games

[FCCC 2002](#), round 4, [Pharaon](#) - [Chess Tiger 15.0](#) ^[6]

```
[Event "FCCC 2002"]
[Site "Massy"]
[Date "2002.10.05"]
[Round "4"]
[White "Pharaon"]
[Black "Chess Tiger 15.0"]
[Result "1-0"]
```

```
1.d4 Nf6 2.c4 g6 3.Nc3 d5 4.cxd5 Nxd5 5.e4 Nxc3 6.bxc3 Bg7 7.Bc4 c5 8.
Ne2 Nc6
9.Be3 O-O 10.Rc1 cxd4 11.cxd4 Qa5+ 12.Kf1 Qa3 13.Qb3 Qd6 14.Bd5 Na5 15
.Qa4 Qd8
16.Bd2 Nc6 17.Bxc6 bxc6 18.Ba5 Qe8 19.Qxc6 Qxc6 20.Rxc6 Bb7 21.Rc7 Bxe
4 22.f3
Bd5 23.Kf2 e6 24.a3 Rfc8 25.Rhc1 Rxc7 26.Rxc7 Bf6 27.Bb4 Bd8 28.Rc3 g5
29.Rc2
f5 30.Nc3 Bb3 31.Rb2 Bc4 32.Bd6 Ba5 33.Na4 Bd5 34.Rb5 Bd8 35.Nc5 Kf7 3
6.Ke3 Bc6
37.Rb2 f4+ 38.Kd3 Bb6 39.Be5 Rd8 40.Ne4 Bxe4+ 41.Kxe4 Rc8 42.g3 fxg3 4
3.hxg3 Rc1
44.g4 Re1+ 45.Kd3 Ra1 46.Rb3 h6 47.Ke4 Kg6 48.Rc3 Re1+ 49.Kd3 Rd1+ 50.
```

Ke2 Ra1

51.Rc8 Ra2+ 52.Kd3 Rxa3+ 53.Ke4 Rb3 54.Rf8 a5 55.Rf6+ Kh7 56.Rxe6 a4 57.Re8 Kg6

58.Re7 h5 59.f4 Kh6 60.Kf5 Rf3 61.Bg7+ Kh7 62.Bf6+ Kg8 63.Kg6 Kf8 64.Re5 Re3

1-0

See also

- [Anubis](#)
- [CHEOPS](#)
- [Nobility](#)
- [ZChess](#)

Forum Posts

- [Re: Delfe 1.0, UCI / WB Pharaon / Chess Advisor, Comet B.37 available ...](#) by [Franck Zibi](#), [CCC](#), August 02, 2001
- [Re: Where to download Pharaon? \(NT\)](#) by [Franck Zibi](#), [CCC](#), August 03, 2001
- [Pharaon 2.50 for WinBoard is available](#) by [Franck Zibi](#), [CCC](#), September 01, 2001
- [Pharaon 2.61 is available \(with WinBoard and UCI support\)](#) by [Franck Zibi](#), [CCC](#), January 19, 2002
- [interesting move by Pharaon](#) by [Jon Dart](#), [CCC](#), June 06, 2002
- [French ch Pharaon-Tiger15 - nice attack](#) by [Sune Larsson](#), [CCC](#), October 06, 2002 » [FCCC 2002](#)
- [Announcement : Release of Pharaon v3](#) by [Franck Zibi](#), [CCC](#), October 21, 2004
- [Re: Mail from Franck Zibi](#) by [Franck Zibi](#), [CCC](#), December 30, 2004
- [Release of Pharaon v3.2](#) by [Franck Zibi](#), [CCC](#), January 08, 2005
- [Release of Pharaon v3.3 \(with Chess 960 support\)](#) by [Franck Zibi](#), [CCC](#), June 17, 2005

External Links

Chess Engine

- [Home of Pharaon](#)
- [Pharaon History](#)
- [Pharaon's ICGA Tournaments](#) (includes [ZChess](#))
- [“20 Questions” with Franck Zibi \(Author of Pharaon\)](#), Questions by [Michael Diosi](#), April 2005
- [The chess games of PHARAON](#) from [chessgames.com](#)
- [Pharaon 3.5.1](#) in [KCEC](#)

Pharaoh

- [Pharaon from Wikipedia.fr](#) (French)
- [Pharaoh from Wikipedia](#)

- [List of pharaohs from Wikipedia](#)
- [Pharaoh \(disambiguation\) from Wikipedia](#)
- [Miles Davis - Pharaoh's Dance](#) (composed by [Joe Zawinul](#)), [Bitches Brew](#) (1970), [YouTube](#) Video

References

1. [^ Pharaon History](#)
2. [^ Introduction to Bitboards](#) by [Franck Zibi](#)
3. [^ Release of Pharaon v3.3 \(with Chess 960 support\)](#) by [Franck Zibi](#), [CCC](#), June 17, 2005
4. [^ Home of Pharaon](#)
5. [^ Pharaoh, the king of ancient Egypt](#), is often depicted wearing the [nemes headdress](#) and an [ornate kilt](#). Based on [New Kingdom tomb paintings](#). Author: [Jeff Dahl](#), December 2007, [CC BY-SA 4.0](#), [Wikimedia Commons](#), [Pharaoh from Wikipedia](#)
6. [^ French ch Pharaon-Tiger15 - nice attack](#) by [Sune Larsson](#), [CCC](#), October 06, 2002

What links here?

Page	Date Edited
Anubis	Sep 29, 2015
CCT3	Feb 14, 2013
CCT4	Apr 22, 2013
CCT5	Feb 22, 2013
CCT6	May 29, 2014
CCT7	Dec 16, 2017
CCT9	Aug 25, 2013
Cheops (Miller)	Jan 13, 2017
Chess960CWC 2005	Jan 1, 2016
Chess960CWC 2006	Sep 25, 2014
ChessWar	Sep 29, 2016
Eigenmann Endgame Test	Jun 1, 2017
Engines	Mar 10, 2018
Ernest Bonnem	Jan 26, 2014
FCCC 2002	Aug 4, 2013
FCCC 2003	Jan 26, 2013
FCCC 2004	Jun 16, 2013
Franck Zibi	Jan 8, 2016
HpChess	Apr 2, 2015
Massy 2001	Jan 28, 2013
Massy 2002	Jan 2, 2018
Massy 2003	Jan 27, 2013
Massy 2005	Jan 29, 2013
Massy 2006	Jan 29, 2013
Olivier Deville	Sep 29, 2016
Pharaon	Sep 2, 2017

Page

[WMCCC 2001](#)

[ZChess](#)

Date Edited

Jul 25, 2017

Jan 8, 2016

[Up one level](#)