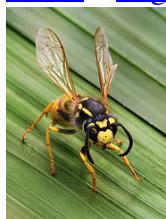


[Home](#) * [Engines](#) * **Wasp**



Wasp^[4]

Wasp,
[John Stanback's](#) new [UCI](#)
compliant chess engine and
complete rewrite of [Zarkov](#), first
released short after [June solstice](#)
2016, announced^[1] and hosted by
[Frank Quisinsky](#)^[2]. As a [bitboard](#)
engine, Wasp is compiled for
modern [64 bit CPU's](#) with [popcnt](#)
and [bitscan](#) instructions. Wasp
2.00, released in April 2017, is able
to use multiple [threads](#) performing
a [Lazy SMP](#) search^[3].

Table of Contents

[Features](#)

[Search](#)

[Evaluation](#)

[Misc](#)

[See also](#)

[Forum Posts](#)

[2016](#)

[2017](#)

[External Links](#)

[Chess Engine](#)

[Misc](#)

[References](#)

[What links here?](#)

Features

[\[5\]](#)

Search

- [Iterative Deepening](#)
- [Aspiration Windows](#)
- [Principal Variation Search](#)
- [Transposition Table](#)
- [Extensions](#)
 - [Check Extensions](#)
 - [Passed Pawn Extensions](#) (to 7th rank if [depth](#) is low)
 - [Fractional](#)
 - [Capture Extensions](#)
 - [PV Extensions](#)
- [Pruning/Reductions](#)
 - [Quiescence Search](#)
 - [Null Move Pruning](#)
 - [Futility Pruning](#)
 - [Reverse Futility Pruning](#)
 - [Late Move Pruning](#)
 - [Late Move Reductions](#)
- [Move Ordering](#)
 - [Killer Heuristic](#)
 - [History Heuristic](#)
 - [Internal Iterative Deepening](#)
 - [MVV/LVA](#)
 - [Static Exchange Evaluation](#)
- [Lazy SMP](#) (Wasp 2.00)

Evaluation

- Wasp does not use [Lazy Evaluation](#) (Opposed to [Zarkov](#))
- [Tapered Eval](#)
- [Material](#)
- [Piece-Square Tables](#)
- [Evaluation Hash Table](#)
- [Pawn Hash Table](#)
- [Pawn Structure](#)
 - [Passed Pawn](#)
 - [Candidate Passed Pawn](#)
 - [Weak Pawns](#)
 - [Backward Pawn](#)

- [Doubled Pawn](#)
- [Isolated Pawn](#)
- [Mobility](#)
- [Trapped Pieces](#)
- [Outposts](#)
- [Rook on open/half-open file](#)
- [Rook On Seventh](#)
- [King Safety](#)
- [King Pawn Tropism](#) in [Endgame](#)

Misc

- [KPK base](#)
- [UCI](#)

See also

- [Arthropod](#)
- [Buzz](#)
- [GNU Chess](#)
- [SCP](#)
- [Zarkov](#)

Forum Posts

2016

- [Wasp 1.01 x64 by John Stanback released ...](#) by [Frank Quisinsky](#), [CCC](#), June 22, 2016
- [Wasp 1.02 by John Stanback available ...](#) by [Frank Quisinsky](#), [CCC](#), July 01, 2016
- [Wasp until move 42...](#) by [Fernando Villegas](#), [CCC](#), July 05, 2016
- [Wasp by John Stanback is clear for take-off on runway 1.25!](#) by [Frank Quisinsky](#), [CCC](#), September 30, 2016

2017

- [Wasp 2.00 by John Stanback ... with Lazy SMP!](#) by [Frank Quisinsky](#), [CCC](#), April 21, 2017
- [Wasp 2.01 by John Stanback available ...](#) by [Frank Quisinsky](#), [CCC](#), May 04, 2017
- [Wasp 2.60 by John Stanback released!](#) by [Frank Quisinsky](#), [CCC](#), November 22, 2017
- [Wasp and a question](#) by [Fernando Villegas](#), [CCC](#), November 23, 2017

External Links

Chess Engine

- [Frank's Chess Page, Wasp by John Stanback](#)

Misc

- [WASP - Wiktionary](#)
- [wasp - Wiktionary](#)
- [Wasp from Wikipedia](#)
- [Wasp \(disambiguation\) from Wikipedia](#)
- [W.A.S.P. - Mantronic, Inside the Electric Circus](#) (1986), [YouTube](#) Video

References

1. [^] [Wasp 1.01 x64 by John Stanback released ...](#) by [Frank Quisinsky](#), [CCC](#), June 22, 2016
2. [^] [Frank's Chess Page, Wasp by John Stanback](#), June 22, 2016
3. [^] [Wasp 2.00 by John Stanback ... with Lazy SMP!](#) by [Frank Quisinsky](#), [CCC](#), April 21, 2017
4. [^] [Vespula](#) is a small genus of social wasps, widely distributed in the [Northern Hemisphere](#). Along with members of their sister genus [Dolichovespula](#), they are collectively known by the common name [yellow jackets](#) (or yellow-jackets) in [North America](#). Vespula species have a shorter malar space and a more pronounced tendency to nest underground, but are otherwise nearly indistinguishable from Dolichovespula. As shown a [Vespula germanica](#), [Image](#) by [Richard Bartz](#), August 10, 2007, [CC BY-SA 2.5](#), [Wikimedia Commons](#), [Wasp from Wikipedia](#)
5. [^] based on [Wasp Release Notes](#) by [John Stanback](#)

What links here?

Page	Date Edited
Buzz	Jun 22, 2016
Engine releases	Apr 23, 2018
Engines	Mar 10, 2018
John Stanback	Dec 7, 2016
TCEC Season 10	Jan 3, 2018
TCEC Season 11	Apr 18, 2018
Wasp	Nov 24, 2017
WCRCC 2017	Jun 27, 2017
Zarkov	Feb 26, 2018

[Up one level](#)