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Smash in [Badminton](#) ^[1]

Smash,

an [UCI](#) compliant [open source chess engine](#) written by [Maurizio Sambati](#) in [C++](#), distributed under the terms of the [General Public License](#). Smash played the [CIPS 2004](#), [CCC 2005](#), [CIPS 2005](#), [CIPS 2007 Italian Computer Chess Championships](#).

Smash is a [bitboard](#) engine and uses [rotated bitboards](#) with 256 [line occupancy](#) states to generate [sliding piece attacks](#). While earlier [WinBoard](#) versions used [MTD\(f\)](#), since 1.0 the [Iterative deepening](#) framework calls a [principal variation search](#). [Structured exception handling](#) is used to catch terminate- and timer exceptions thrown elsewhere. [Selectivity](#) is applied with [adaptive null move](#), [futility](#)- and [delta pruning](#), [check](#)- and [one reply extensions](#). A [capture](#) entering the [pawn endgame](#) is [extended](#) by two plies. Beside moves from the [transposition table](#), and [MVV-LVA](#) for captures, [move ordering](#) is controlled by [killer](#)- and [history heuristic](#). [Evaluation](#) determines positional aspects with [piece-square tables](#), and considers [pawn structure](#), [king safety](#) and various positional piece terms.

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Deep Smash

Version 1.0 has been rewritten from scratch. Dubbed Deep Smash - it performs a [parallel search](#) using [threads](#), applying [ABDADA](#) with a [shared transposition table](#) ^[2].

Photos



CCC 2005: [Fabio Cavicchio](#) ([Delfi](#)) and [Maurizio Sambati](#) - [Smash](#) ^[3]

Forum Posts

- [Has anyone ever heard of an engine called Smash?](#) by bigo, [CCC](#), December 27, 2007
- [Re: interested in making single processor program multi](#) by [Alessandro Scotti](#), [CCC](#), December 29, 2007
- [Smash \(single-CPU/SMP\) by Maurizio Sambati](#) by [Norbert Raimund Leisner](#), [CCC](#), August 31, 2008
- [Last Smash version? \(for the RWBC chronology\)](#) by [Günther Simon](#), [CCC](#), May 10, 2016

External Links

Chess Engine

- [Maurizio Sambati - Programmi - Smash](#)
- [Smash « G 6](#)
- [Smash 1.0.3 in KCEC](#)
- [Index of /chess/engines/Norbert's collection/Smash \(Compilation\)](#) by [Norbert Raimund Leisner](#), hosted by [Kirill Kryukov](#)

Misc

- [smash - Wiktionary](#)
- [smashing - Wiktionary](#)
- [smash - Wiktionary.simple](#)

References

1. [^](#) In June 2005, Chinese [Badminton](#) player, [Fu Haifeng](#) set a world record when he hit a smash at over 208 [miles per hour](#), from [East Leake Badminton](#)
2. [^](#) [Re: interested in making single proccesor program multi](#) by [Alessandro Scotti](#), [CCC](#), December 29, 2007
3. [^](#) [Computer Chess Cup 2005](#) by [Alessandro Scotti](#)

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