

[Home](#) * [Engines](#) * **Micro-Max**



Micro-Max, (μ-Max)
a minimalist [open source](#) chess
program in up to 2000 characters
and 133 lines of portable [C](#) source-
code by [Harm Geert Muller](#).
Recently Micro-Max was ported
for an [Atmel-ATmega88](#)
[Microcontroller](#) ^[1] by [Andre](#)
[Adrian](#) using [WinAVR GCC](#),
deployed for a self-made [chess](#)
[computer](#) *SHAH* ^[2] and the *ATM18*
mini chess computer ^[3] from the
electronics magazine [Elektor](#).

Table of Contents

[Photos](#)

[See also](#)

[Forum Posts](#)

[External Links](#)

[Chess Engine](#)

[Dedicated μ-Max](#)

[Misc](#)

[References](#)

[What links here?](#)

Photos



[Deep Sjeng](#) - micro-Max, [WCCC 2007](#) ^[4], [Gian-Carlo](#) amazed by [HGM's](#) source code ^[5]



[Elektor](#) Chess Computer with Micro-Max inside ^[6]



Minimalistische zelfbouw schaakcomputer ^[7]

See also

- [Arduino Due Chess Robot](#)
- [Fairy-Max](#)
- [iota](#)
- [Joker](#)
- [KingSlayer](#)

- [Spartacus](#)
- [Toledo Nanochess](#)
- [Usurpator](#)

Forum Posts

- [LMR in micro-Max](#) by [Harm Geert Muller](#), [CCC](#), April 07, 2007 » [Late Move Reductions](#)
- [released: micro-Max 4.8w](#) by [Harm Geert Muller](#), [CCC](#), May 17, 2007
- [Nice game by micro-Max](#) by [Harm Geert Muller](#), [CCC](#), September 05, 2009

External Links

Chess Engine

- [Micro-Max, a 133-line Chess Source](#) by [Harm Geert Muller](#)
- [Micro-Max \(chess engine\) from Wikipedia](#)
- [micro-Max' ICGA Tournaments](#)
- [Micro-Max 4.8 in CCRL 40/40](#)
- [The world's smallest chess engines](#) by [Albert Silver](#), [ChessBase News](#), September 23, 2015 » [1K ZX Chess](#), [BootChess](#), [Toledo Nanochess](#), [Micro-Max](#)

Dedicated µ-Max

- [Self-made Chess Computer SHAH](#) based on an [Atmel-ATmega88 Microcontroller](#) and Micro-Max-port by [Andre Adrian](#) (German)
- [AVR-Max-Schachzwerg](#) from [Schachcomputer.info - Wiki](#) (German)
- [ATM18 Mini Chess Computer](#) from [ELEKTOR.com – Platform for electronics and microcontrollers](#)
[Der CC2-Schachzwerg - ELEKTOR.de](#)
[AVR-Max-Schachzwerg - ELEKTOR.de](#)
[Mini-ajedrez con AVR-Max - ELEKTOR.es](#)
[CC2, le génie des échecs - ELEKTOR.fr](#)
[Schaakmat gezet! - ELEKTOR.nl](#)
- [Schach und Schachcomputer mit dem ATmega88 - Computer:club²](#) with [Wolfgang Rudolph](#), from [No. 31](#), May 21, 2009, [YouTube](#) Video (German) ^[8]
- [Use this Open Source Lib to play Chess with Arduino](#) by [Giorgos Lazaridis](#), [PCB Heaven](#), October 14, 2014 » [Arduino](#)

Misc

- [Micromax Mobile from Wikipedia](#)
- [Micromax \(Scott Wright\) from Wikipedia](#)

References

1. [^ ATmega88 Automotive](#) from [Atmel Products -Microcontrollers - AVR® 8-Bit RISC](#)
2. [^ Self-made Chess Computer SHAH](#) based on an [Atmel-ATmega88 Microcontroller](#) and Micro-Max-port by [Andre Adrian](#) (German)
3. [^ ATM18 Mini Chess Computer](#) from [ELEKTOR.com – Platform for electronics and microcontrollers](#)
4. [^ Amsterdam 2007, Chess, Round 3, Game 1](#) from the [ICGA Tournament Database](#)
5. [^ Amsterdam 2007 WCCC, Olympiad and Workshop / Photos](#)
6. [^ Elektor Chess Computer](#) from [Computer Schach](#) by [Andre Adrian](#) (German)
7. [^ Schaakmat gezet! - ELEKTOR.nl](#)
8. [^ Computer:Club2 - YouTube](#)

What links here?

Page	Date Edited
1K ZX Chess	Oct 1, 2015
1st CSVN OIT	May 18, 2014
Albert Silver	Feb 25, 2018
Andre Adrian	Jan 16, 2012
Arduino	Feb 21, 2018
BootChess	May 16, 2017
CCT10	May 5, 2013
Checkmate	Apr 13, 2018
Dedicated Chess Computers	Feb 20, 2018
Engines	Mar 10, 2018
Entering Moves	Sep 7, 2017
Evaluation	Feb 1, 2018
Fairy-Max	Feb 19, 2018
Gavon	Apr 30, 2018
Harm Geert Muller	Mar 31, 2018
ICT 2007	Sep 14, 2015
Internal Iterative Deepening	Feb 5, 2018
iota	Feb 10, 2016
Joker NL	Sep 15, 2017
KingSlayer	Oct 17, 2016
Late Move Reductions	Sep 25, 2017
Little Rook Chess	Sep 1, 2015
Max	Dec 23, 2017
MAX (Gillogly)	Sep 1, 2013
Micro-Max	Aug 7, 2017
MicroMurks	Jan 8, 2016
Open Source Engines	Jul 14, 2015
Óscar Toledo Gutiérrez	Feb 1, 2015
Perft	Sep 26, 2017

Page	Date Edited
PICcolino	Oct 2, 2017
Piece-Square Tables	Mar 31, 2018
Robots	Feb 20, 2018
Score	Apr 14, 2018
Sunfish	Jan 11, 2018
Toledo	Sep 23, 2017
Usurpator	Jul 30, 2017
WCCC 2007	Jan 2, 2017
WCRCC 2007	Nov 21, 2016
WCRCC 2009	Jul 14, 2014
Xiphos	Apr 22, 2018

[Up one Level](#)