

**Hiarcs** (HIARCS),

<https://chessprogramming.wikispaces.com/Hiarcs>

## History

A chess engine written by Mark Uniacke. HIARCS is an acronym for Higher Intelligence Auto Response Chess System, and its history of development lasts over 30 years now. Because Hiarcs is written portable in C, it is available for multiple platforms such as Pocket PC, Palm, Apple iPhone & iPod Touch, PDAs, PC and Macintosh computers.

Hiarcs opening book authors over the time were Eric Hallsworth, Sebastian Böhme and Harvey Williamson, who is also operating Hiarcs regular at various computer chess tournaments. Hiarcs won the Gold medal at the 4th Computer Olympiad 1992 in London, the WMCCC 1993 in Munich, the IPCCC 2007, after the Rybka disqualification in 2011, the WCCC 2008 in Beijing, the ICT 2009, the WCSC 2011 in Tilburg, the WCSC 2013 in Yokohama <sup>[1]</sup>, and the PT 51.

The very first version of Hiarcs was already written 1980 in PDP-11 Basic, when Mark was a 15 year old schoolboy <sup>[6]</sup>. Subsequent versions (5 aka 0.5) were still written in interpreted Basic as well, and to compensate that speed disadvantage, Hiarcs used to be smart rather than fast.

End of the 80s Hiarcs was rewritten in C. **In 1991 Hiarcs 1.0 was released for PCs and the MS-DOS operating system. (SSDF ratinglist: Hiarcs Master 1.0 486/33 MHz, rating: 1973)**

Subsequent Hiarcs versions were compiled to run under various processors and operating systems, such as x86 and PowerPC under Windows and Mac OS, as well as mobile devices.

## 1999

HIARCS is written entirely in 'C' on a very spare time basis.

HIARCS searches around an order of magnitude less positions per second (av. 18,000) than most of its competitors. However, it makes up for this apparent slow speed by clever searching and accurate evaluation. HIARCS uses many selective search extension heuristics to guide the search and incorporates a sophisticated tapered search to resolve tactical uncertainties while finding positionally beneficial lines.

HIARCS won the title of World Microcomputer Chess Software Champion in 1993 in Munich, Germany and has won numerous other computer and human tournaments.

**HIARCS 7.0 (SSFD ratinglist: Hiarcs 7.0 64MB P200 MMX 2464)** was the top rated chess program in his time on the SSDF and Selective Search rating lists.

In April 1997, **HIARCS 6.0 (SSFD ratinglist: Hiarcs 6.0 49MB P200 MMX 2422)**

became the first PC chess program to win a match played at tournament time controls over a FIDE International Master. This great achievement was further built on when HIARCS won the Godesberg Open ahead of Grandmasters and International Masters.

### **Release Dates**

- Hiarcs 1 : 1992
- Hiarcs 2 : 1993
- Hiarcs 2.1 : 1993
- Hiarcs 3 : 1994
- Hiarcs 4 : 1995
- Hiarcs 5 : 1996
- Hiarcs 6 : 1997
- Hiarcs 7 : 1998
- Hiarcs 7.32 : 1999
- Hiarcs 8 : 2002
- Hiarcs 9: 2003
- Hiarcs 9.6 : 2004
- Hiarcs 10 : 2005
- Hiarcs X50 :
- Hiarcs X54 :
- Hiarcs 11 : 2006
- Hiarcs 11.1 : 2007
- Hiarcs 11.2 : 2007
- Hiarcs Paderborn 2007-12
- Hiarcs 12.1 : 2008
- Hiarcs 13 : 2009
- Hiarcs 13.1 : 2010
- Hiarcs 13.2 : 2010
- Hiarcs 14 : 2011