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Pandix,

a chess program by [Gyula Horváth](#) and at times by [Zsuzsa Horváth](#) - the development already started in 1984. Pandix, written in [C](#), has a huge tournament history, starting at the [WMCCC 1987](#) until last recently runner-up the [CCT14](#) in 2012. Pandix **ChessFriend** was commercial in the 90s as [x86 PC](#) program running under [MS-DOS](#) with an own [GUI](#) including a [3D board](#) representation and graphics piece editor. Since 1993, [Csaba Szûts](#) is [author](#) of Pandix' [opening book](#).

Tournaments

Beside five [World Microcomputer Chess Championships](#) ^[11], seven [World Computer Chess Championships](#), three [World Chess Software Championships](#), Pandix played three [Aegon Tournaments](#) and various [Hungarian Chessprogram Open](#), [International CSVN Tournaments](#), [Dutch Open Computer Chess Championships](#) and [Online Computer Chess Tournaments](#). After more than a decade of recreation and abstinence from competing in tournaments, Gyula started a comeback at the [DOCCC 2008](#), and the [WCCC 2009](#). Pandix **Breakthrough**, now [UCI](#) compliant running under [Windows](#), played a strong [WCCC 2010](#). In June 2011, Pandix won the [ICT 2011](#) with 7 out of 7, and in July 2011 the [WCRCC 2011](#) ^[12].

Yokohama 2013

At the [WCSC 2013](#) in [Yokohama](#), [Pandix](#) by [Gyula Horváth](#) started a great pursuit with 4½/5 in the second half, for a Silver medal shared with [Junior](#), a half point behind Gold medalist [Hiarcs](#). Also the open hardware [WCCC 2013](#) was a great tournament for Pandix, winning Bronze in the main course and blitz.

Screenshot



Pandix ChessFriend (1991) ^[13]

Photos & Games

2010



Team [Pandix](#) ^[4], Nelli, Gyula, Ditta and Zsuzsa Horváth ^[5], [Kanazawa](#), 2010 ^[6]

```
[Event "WCCC 2010"]
[Site "Kanazawa, Japan"]
[Date "2010.09.25"]
[Round "3"]
[White "Pandix Breakthrough"]
[Black "Rybka"]
[Result "1/2-1/2"]
```

```
1.c4 e5 2.Nc3 Nc6 3.Nf3 Nf6 4.g3 Bb4 5.Bg2 O-O 6.O-O
Bxc3 7.bxc3 d6 8.d3 h6
9.Ne1 e4 10.Nc2 Re8 11.Ne3 Rb8 12.Rb1 b6 13.dxe4 Na5 14.Qc2 Ng4 15.c5
Nxe3
16.Bxe3 Nc4 17.cxb6 axb6 18.Bc1 Bd7 19.a4 Ra8 20.Rb4 Ne5 21.f4 c5 22.R
b1 Bxa4
23.Qd2 Nc4 24.Qd3 b5 25.e5 Rb8 26.Bc6 Re7 27.Ra1 Rc8 28.Bg2 dxe5 29.Rx
a4 Qxd3
30.exd3 bxa4 31.dxc4 exf4 32.Bxf4 Re2 33.Ra1 g5 34.Bf3 Rc2 35.Bc1 Rb8
36.Bd5
Rxc3 37.Ba3 Rd8 38.Kf2 Rc8 39.Ra2 h5 40.Kf1 g4 41.Kf2 Rd8 42.Ra1 Rc8 4
3.Ke2 Rc2+
44.Kd3 Rxh2 45.Bc1 h4 46.gxh4 Re8 47.Bf4 Rh3+ 48.Kd2 a3 49.Bd6 Ree3 50
.Rg1 Kh7
51.Rxg4 a2 52.Rg1 Ra3 53.Ra1 f5 54.h5 Rxh5 55.Kc1 Ra5 56.Kc2 Rh3 57.Be
5 Ra6
58.Kb2 Re3 59.Rh1+ Kg6 60.Rg1+ Kh5 61.Bf4 Rea3 62.Ka1 Rb6 63.Be5 Rb1+
64.Rxb1
axb1=Q+ 65.Kxb1 Ra6 66.Bf3+ Kg5 67.Kb2 f4 68.Bc3 Re6 69.Kc2 Ra6 70.Be1
Ra2+
71.Kb3 Ra1 72.Bc3 Rb1+ 73.Kc2 Rf1 74.Be4 Kg4 75.Kd2 Rf2+ 76.Kd3 f3 77.
Bd2 Re2
78.Be3 Kg3 79.Bxc5 Re1 80.Bc6 Re6 81.Be4 Kg4 82.Bd5 Re8 83.Bd4 Kg3 84.
c5 f2
85.Bxf2+ Kxf2 1/2-1/2
```

2011



[Marcel van Kervinck](#) and [Gyula Horváth](#), [Rookie](#) - [Pandix](#), [ICT 2011](#) ^[7]

```
[Event "ICT 11"]
[Site "Leiden"]
[Date "2011.06.12"]
[Round "7"]
[White "Rookie"]
[Black "Pandix"]
[Result "0-1"]
```

```
1.e4 e5 2.Nf3 Nc6 3.Bb5 a6 4.Ba4 Nf6 5.d4 exd4 6.O-
O Be7 7.Re1 b5 8.Bb3 d6
9.c3 dxc3 10.Nxc3 O-
O 11.h3 Bb7 12.Bf4 Na5 13.Bc2 Re8 14.b3 Nc6 15.Rc1 Ne5
16.Nd5 Ng6 17.Bg3 Bf8 18.Qd4 Ne5 19.Bh4 c5 20.Qd1 Bxd5 21.exd5 Ned7 22
.Qd2
Qc7 23.Nh2 g6 24.Ng4 Rxe1+ 25.Rxe1 Nxg4 26.hxg4 c4 27.bxc4 bxc4 28.g5
Qc5
29.Bg3 Nb6 30.Rd1 Re8 31.a4 Bg7 32.a5 c3 33.Qf4 Be5 34.Qf3 Bxg3 35.axb
6 Be5
36.Rb1 Rb8 37.b7 Qc7 38.Qe3 Rxb7 39.Rxb7 Qxb7 40.f4 Bg7 41.Qe8+ Bf8 42
.Qe4
Qb5 43.Kf2 Bg7 44.g4 a5 45.Ke3 Qf1 46.Qe8+ Bf8 47.Qe4 Qh3+ 48.Qf3 Qh2
49.Qe2
Qg3+ 50.Qf3 Qg1+ 51.Kd3 Bg7 52.Qe4 Qxg4 53.Qe8+ Bf8 54.Qe4 Qh3+ 55.Kc4
Qc8+
56.Kb3 Bg7 57.Qc4 Qb7+ 58.Ka4 Qb2 59.Bd3 Qa1+ 60.Kb5 Qa3 61.f5 a4 62.Q
xa4
Qc5+ 63.Ka6 Qxd5 64.Qe4 Qxe4 0-1
```

Descriptions

from the [ICGA](#) tournament site [\[8\]](#):

1995

Gyula Horvath started writing chess programs in 1985. His program won the Amateur World Chess Championship in [1987](#) and the Personal Computer Chess Champion title in [1988](#) and [1989](#). His wife, Szuzsa, joined the development in 1986. She is mainly active in testing the program and in designing and programming the graphics of the commercial versions of the program. Both of them pursue chess programming as a hobby - Gyula works as a marketing researcher and Zsuzsa works as a telemarketing assistant. They have participated in various computer chess events since 1986. In 1993 their team increased to three members when [Csaba Szûts](#) began to implement a new 100,000 moves opening book. The program is written in [C](#) and uses a 400KB [hash table](#). It measures the move interestingness and [incrementally updates](#) the [attack map](#). The program uses [principal variation search](#), advanced [time control](#) and special limited [quiescence search](#).

2010

Between 1984-1995 I was developing Pandix. Then I stopped working on it. I just participated on the [Hungarian computer chess tournaments](#) for fun (with tiny modifications on the code). Since 2006 I develop Pandix again as a strong hobby. My aim is to create a new algorithm what is radically different from all the published sources. Eventually it seems that the invested efforts are paying back, and Pandix starts to be extremely strong. Currently it is single thread, but for the [Kanazawa tournament](#) I'll make it [multi thread](#) + [egtb](#) will be used there. (It'll be done for summer, and by the tournament it'll be well tested.) Pandix is a [Windows UCI](#) application.

See also

- [Brainstorm](#)
- [BreakThrough](#)

Forum Posts

- [WCCC in Japan - Hans's Diary](#) by [Hans van der Zijden](#), [Hiarcs Forum](#), September 26, 2010 » [WCCC 2010](#), [WCSC 2010](#)
- [Pandix games from ACCA](#) by [Gyula Horváth](#), [CCC](#), July 25, 2011 » [ACCA WCRCC 2011](#)
- [WCCC 2011 - Pandix - Hiarcs](#) by [Peter Skinner](#), [CCC](#), November 22, 2011 » [WCCC 2011](#)
- [pandix did a good job !](#) by [Thorsten Czub](#), [CCC](#), August 19, 2013 » [WCCC 2013](#), [WCSC 2013](#)
- [Chessfriend](#) by [Fernando](#), [Hiarcs Forum](#), February 02, 2017

External Links

- [Pandix' ICGA Tournaments](#)
- [The chess games of Pandix \(Computer\)](#) from [chessgames.com](#)
- [PANDIX chess games - 365Chess.com](#)
- [The Konix Multisystem Archive](#)
- [Pan \(disambiguation page\)](#) from [Wikipedia](#)
- [Dix \(disambiguation page\)](#) from [Wikipedia](#)

References

1. [^] [Two more](#) tournaments, the [2nd Computer Olympiad](#) and [WMCCC 1991](#) were played by [Brainstorm](#)
2. [^] [Pandix games from ACCA](#) by [Gyula Horváth](#), [CCC](#), July 25, 2011
3. [^] [Septober - Computerschach](#) by [Herbert Marquardt](#)
4. [^] [WCCC in Japan - Hans's Diary](#) by [Hans van der Zijden](#), [Hiarcs Forum](#), September 26, 2010
5. [^] [Studie: Schachspielen mit ein 286er 12 MHz Laptop - Schachcomputer.info Community](#) by [Spacious Mind](#), May 22, 2010 (German)
6. [^] [Kanazawa 2010 - Chess - Round 3 - Game 3 \(ICGA Tournaments\)](#)
7. [^] [ICT11 Round 7 - Photos](#)
8. [^] [Pandix' ICGA Tournaments](#)

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1st Computer Olympiad	Jul 25, 2017
ACCA World Computer Rapid Chess Championship	Jun 27, 2017
Aegon 1994	Mar 26, 2017
Aegon 1995	Apr 6, 2017
Aegon 1996	Jan 22, 2017
BP	Jan 7, 2016
Brainstorm	Jun 24, 2017
BreakThrough	Nov 26, 2016

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Crux	Jan 30, 2017
Csaba Szûts	Mar 18, 2012
CXG Sphinx	Jun 23, 2017
Deuterium	Jun 23, 2014
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DOCCC 2009	Aug 15, 2015
DOCCC 2011	Dec 1, 2013
Dutch Open Computer Chess Championship	Sep 25, 2014
Engines	Mar 10, 2018
Fridolin	Jun 27, 2017
Fritz	Feb 26, 2018
Gyula Horváth	Jan 7, 2016
Hungarian Chessprogram Open	Jan 6, 2013
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International CSVN Tournament	Jan 8, 2018
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MASPV 2003	Jan 9, 2013
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MASPV 2008	May 5, 2013
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WMCCC 1993	Dec 30, 2017
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Zsuzsa Horváth	Dec 12, 2016

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