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LogiChess,

the first chess program by [Kaare Danielsen](#) developed in 1981 for an [Intel 8048](#) compatible 80C50 [CMOS microcontroller](#) with 4 K Kibi internal [EPROM](#) and only 256 byte internal [RAM](#), and a [clock frequency](#) of 3.6 resp. 7.2 MHz. It competed at the [2nd European MCC 1981](#) (3rd place) ^[1] and two [World Microcomputer Chess Championships](#) in [1981](#) and [1983](#), at times supported by [Hartvig Ekner](#) ^[2].

SciSys & CXG

As [dedicated chess computer](#), LogiChess was sold in approximately 200.000 units ^[3] from [SciSys](#) as [SciSys Explorer](#), [SciSys Concord II](#) and [SciSys Companion II](#), and from [RadioShack](#) as *Tandy 1650* ^[4]. Another 4K branch was realized for [Newcrest Technology](#), for the [6800](#) instruction set compatible [Hitachi HD6301V1](#) 8-bit controller for the [CXG Computachess III](#) in 1984 ^[5], as well the Newcrest 6301V ^[6] inside the [CXG Star Chess](#) of 1985 ^[7] ^[8]. According to its author, LogiChess is still the strongest 4K chess computer in the world ^[9].

Lexibook

The [Motorola 6800](#) LogiChess branch was still in production in the 2000s, as used in all the **Lexibook** computers ^[10] with [68HC08](#) compatible microcontrollers ^[11] ^[12] ^[13] ^[14].

Selected Games

[WMCCC 1983](#), round 1, [65 Cyrus X](#) - [LogiChess 2.2](#) ^[15]

```
[Event "WMCCC 1983"]
[Site "Budapest, Hungary"]
[Date "1983.10.13"]
[Round "1"]
[White "65 Cyrus X"]
[Black "LogiChess 2.2"]
[Result "0-1"]
```

```
1.d4 Nf6 2.c4 e6 3.Nc3 d5 4.e3 Nc6 5.Be2 Ne4 6.Nxe4 dxe4 7.c5 Qg5 8.g3
Qf5
9.Bg4 Qd5 10.Bd2 h5 11.Be2 e5 12.Bc3 h4 13.Bb5 hxg3 14.Bxc6+ Qxc6 15.f
xg3 Be6
16.h4 b6 17.cxb6 axb6 18.a4 exd4 19.Qxd4 f6 20.Qd1 Bc5 21.Ne2 Bxe3 22.
Nd4 Qd6
23.Ne2 Qxd1+ 24.Kxd1 Rxa4 25.Kc2 b5 26.Rxa4 bxa4 27.Bd4 Bh6 28.Nc3 Bb3
+ 29.Kb1
f5 30.g4 fxg4 31.Nxe4 O-
O 32.Re1 Rf3 33.Ng5 Bxg5 34.hxg5 Rd3 35.g6 Rd1+ 36.Rxd1
Bxd1 37.Kc1 Bf3 38.Kd2 Be4 39.Ke3 Bxg6 40.Be5 c5 41.Kf4 Bh5 42.Kg5 g6
43.Kf6 c4
44.Ke6 c3 45.bxc3 a3 46.c4 a2 47.c5 g3 48.c6 g2 49.Bd4 g1=Q 50.Bxg1 a1
=Q 51.Bc5
Bg4+ 52.Kd6 Bf3 53.Bf2 Qd1+ 54.Kc7 Qc1 55.Bg3 Qxc6+ 56.Kd8 Bg4 57.Ke7
Qe6+
58.Kd8 Qd7# 0-1
```

See also

- [CXG Computachess III](#)
- [CXG Star Chess](#)
- [Enterprise](#)
- [SciSys Explorer](#)

External Links

- [LogiChess' ICGA Tournaments](#)
- [Resume for Kaare Danielsen](#)

References

1. [^](#) Logichess by the 17-year-old Danish schoolboy [Kaare Danielsen](#) was 3rd, from [Chess Computers - The UK Story](#) from [Chess Computer UK](#) by [Mike Watters](#)
2. [^](#) [Frederic Friedel](#) (1984). *Move from the East*. Report of the WMCCC 1983, [Personal Computer World](#), January 1984
3. [^](#) [Resume for Kaare Danielsen](#)
4. [^](#) [Tandy 1650](#) from [Schachcomputer.info Wiki](#)
5. [^](#) [CXG Computachess III](#) from [Schachcomputer.info Wiki](#) (German)
6. [^](#) [6301V](#) from [Schachcomputer.info Wiki](#)
7. [^](#) [CXG Star Chess](#) from [Schachcomputer.info Wiki](#)
8. [^](#) [Danielsen, Kaare](#) from [Schachcomputer.info Wiki](#)
9. [^](#) [Resume for Kaare Danielsen](#)
10. [^](#) [Lexibook Electronic Chess Computers](#) from [The Spacious Mind](#)
11. [^](#) [Danielsen, Kaare](#) from [Schachcomputer.info Wiki](#)
12. [^](#) [Lexibook Travel Chess Explorer Electronic Chess Computer](#) from [The Spacious Mind](#)
13. [^](#) [Lexibook ChessMan Pro Electronic Chess Computer](#) from [The Spacious Mind](#)
14. [^](#) [Lexibook Travel Chess](#) from [Schachcomputer.info Wiki](#) (German)
15. [^](#) [Budapest 1983 - Chess - Round 1 - Game 2 \(ICGA Tournaments\)](#)

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