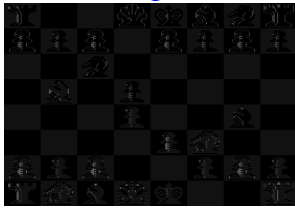


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Sargon I for the [Apple II](#) <sup>[8]</sup>

### **Sargon,**

a family of chess programs by [Dan](#) and [Kathe Spracklen](#). They started chess programming in 1977 on a [Z-80](#) based *Wavemate Jupiter III* <sup>[1]</sup> in [assembly language](#). The **first** Sargon version had a [10x12 board](#) board representation and a two [ply](#) [alpha-beta search](#) without [quiescence](#) but a [SOMA](#) like [exchange evaluation](#) <sup>[2]</sup> <sup>[3]</sup>.

After first tournament successes in 1978, at [The Second West Coast Computer Faire](#), winning with a 100% score <sup>[4]</sup>, and the shared third place at [ACM 1978](#) already with **Sargon II**, the Spracklens became professional computer chess programmers. They first started selling their well commented Sargon I Z-80 assembly listing as paper copy for \$15 by their own <sup>[5]</sup>, and then made a contract with *Hayden Books* to publish a book about Sargon with explanations and listing <sup>[6]</sup>. *Hayden Software* <sup>[7]</sup> remained primary distributor of all further Sargon software versions, even when the Spracklens worked full time for [Fidelity Electronics](#) during the 80s.

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## MOS Technology

**Sargon I** was already ported to the [Apple II](#) by [Kathe Spracklen's](#) brother, Gary Shannon <sup>[9]</sup>. Despite its lower frequency, they found the [6502](#) the much better processor for their program than the Z80, and soon the [MOS Technology](#) processor became the major target platform.

## Sargon II

**Sargon II** was written for various [Z-80](#) and [6502](#) based home computers, and was base for their first [dedicated unit](#), the [Chafitz ARB Sargon 2.5](#) <sup>[10]</sup>. After civil proceedings between manufacturer [Applied Concepts](#) <sup>[11]</sup> and their sales company [Chafitz](#), the Spracklens began their long term collaboration with [Sidney Samole](#) and [Fidelity Electronics](#) in the 80s. Sargon II already played the [ACM 1978](#) still with the *Jupiter III*, and the [WMCCC 1980](#), where it had to compete with its dedicated relatives, winner [Chess Challenger](#), runner up [Boris Experimental](#), [Sargon 2.5 Modular GS](#) and [Sargon 2.5 Auto RB](#), and became tied third with 3/5, last game losing from Challenger.

## Sargon III

**Sargon III** was a complete rewrite, using [quiescence search](#), and a [transposition table](#) with [BCH hashing](#). Sargon III was ported to the [68000](#), to be the first third-party executable software for the [Macintosh](#) <sup>[12]</sup>. The [8086](#) Sargon III port for [PC](#) was done by [Kevin Leavelle](#) in 1984 <sup>[13]</sup>, so that three Sargon 3 software versions played the [WMCCC 1984](#), where the [Fidelity Electronics Elite](#) by the same authors tied for first place, the [Apple II](#) became 10th with 4/7, the Macintosh 12th with 3½/7 and the [8088 Compaq](#) PC 17th with 2½/7. In cooperation agreement between [Fidelity Electronics](#) and [Software Toolworks](#) in 1988, an enhanced and improved Sargon III was market as [Fidelity Chessmaster 2100](#) <sup>[14]</sup>.

## Photos & Games

### Mike



[Kathe Spracklen](#) and [Mike Johnson](#), [Mike](#) vs. [Sargon 2](#), [ACM 1978](#) <sup>[\[15\]](#)</sup> <sup>[\[16\]](#)</sup>

```
[Event "ACM 1978"]
[Site "Washington USA"]
[Date "1978.12.04"]
[Round "3"]
[White "Mike"]
[Black "Sargon 2"]
[Result "1/2-1/2"]
```

```
1.e4 e5 2.d4 Nc6 3.d5 Nb4 4.c3 Na6 5.f4 Nc5 6.fxe5 Qh4+ 7.Kd2 Nxe4+ 8.
Kc2 Nf2
9.Qe1 Bc5 10.Nf3 Qh5 11.Rg1 Ne7 12.Be3 Qg6+ 13.Kc1 Bxe3+ 14.Qxe3 Ng4 1
5.Qd2 d6
16.Bd3 Qh5 17.Bb5+ Bd7 18.Bxd7+ Kxd7 19.exd6 cxd6 20.h3 Nf6 21.Qg5 Qxg
5+
22.Nxg5 Rhf8 23.c4 Rac8 24.Nd2 Nexd5 25.Kb1 Ne3 26.Nge4 Nxe4 27.Nxe4 R
xc4
28.Nc3 f5 29.a4 d5 30.g3 Rf6 31.Re1 d4 32.Nb5 a6 33.Nxd4 f4 34.gxf4 Rx
d4
35.Rxe3 Rfxf4 36.a5 Rd1+ 37.Ka2 Ra4+ 38.Ra3 Rxa3+ 39.bxa3 Rd2+ 40.Kb3
Rd3+
41.Kc4 Rxh3 42.Rd1+ Kc6 43.a4 Rh5 44.Kb4 Rh4+ 45.Kb3 Rh3+ 46.Kc4 Rh5
47.Kb4 Rh4+ 48.Kb3 Rh3+ 49.Kc4 Rh5 50.Kb4 Rh4+ 1/2-1/2
```

**Awit**

[Dan](#) and [Kathe Spracklen](#) from their oral history on the Sargon 2 vs [Awit](#) game, round 4, [ACM 1978](#) <sup>[17]</sup>

I think the most exciting part for us was the last round of the tournament, when we played [Tony Marsland's](#) program [Awit](#). It was a 6 million dollar [Amdahl computer](#). And we won the game. And we were just amazed. I remember, at the time, we won it. And there was a huge audience there. There was like a hundred people sitting out there, watching it, and they just all started cheering and clapping. And then we woke up the following morning to a big article in the Washington Post that says, Microcomputer Beats 6 Million Dollar Machine, or something like that.

```
[Event "ACM 1978"]
[Site "Washington USA"]
[Date "1978.12.05"]
[Round "4"]
[White "Sargon 2"]
[Black "Awit"]
[Result "1-0"]
```

```
1.e4 c5 2.d4 cxd4 3.Qxd4 Nc6 4.Qe3 Nf6 5.Nf3 e6 6.Nc3 Bb4 7.Bb5 a6 8.B
xc6 dxc6
9.Bd2 Ng4 10.Qf4 Nf6 11.O-O O-
O 12.Rad1 b5 13.Be3 Qa5 14.Bd4 Bxc3 15.Bxc3 Qxa2
16.Bxf6 gxf6 17.Qxf6 Qc4 18.Qg5+ Kh8 19.Qf6+ Kg8 20.Qg5+ Kh8 21.Rd8 Rx
d8 22.Qf6+
Kg8 23.Qg5+ Kf8 24.Qxd8+ Kg7 25.Qg5+ Kf8 26.Qd8+ Kg7 27.Qd4+ Qxd4 28.N
xd4 Bb7
29.Re1 Kg6 30.Re3 Rd8 31.Rd3 c5 32.Nxe6 Rxd3 33.Nf4+ Kg5 34.Nxd3 Bxe4
35.Nxc5
Bxc2 36.Nxa6 Bb3 37.Nc5 Bd5 38.g3 Bf3 39.Nb3 b4 40.Nd4 Be4 41.f3 Bb7 4
2.Kf2 h6
43.Ke3 Bd5 44.Nc2 b3 45.Nd4 Kg6 46.Kd3 Kh7 47.f4 Kg8 48.Kc3 Kg7 49.Nxb
3 Bxb3
50.Kxb3 Kf6 51.Kc4 Ke7 52.b4 Kd7 53.Kd5 h5 54.b5 Kc7 55.Kc5 Kb7 56.b6
Kb8 57.Kc6
Kc8 58.b7+ Kb8 59.Kb6 h4 60.gxh4 f6 61.h5 f5 62.Kc6 Ka7 63.Kc7 Ka6 64.
b8=Q Ka5
65.Qb3 Ka6 66.Qa4# 1-0
```

## See also

- [Chafitz ARB Sargon 2.5](#)
- [Chafitz Modular Game System](#)
- [Chess Challenger](#)

- [Fidelity Chessmaster 2100](#)
- [Legend](#)
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- [Sargon's 10x12 Board](#)
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- [Sargon IV](#) by Paul H. Nelson, [rgc](#), August 08, 1989

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- [Is Sargon IV System 7 compatible?](#) by Bertrand Limoges, [rgc](#), October 27, 1992
- [Strength of Sargon III on Commodore 64](#) by Daniel Marsalone, [rgc](#), January 08, 1993
- [Sargon 4](#) by Michael M Gorman Jr, [rgc](#), May 27, 1993
- [Sargon](#) by Randal Dean, [rgcc](#), March 27, 1997
- [Sargon V](#) by parrot-head, [rgcc](#), September 15, 1999
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- [Help with old software - Sargon III](#) by [José Carlos](#), [CCC](#), November 29, 2001
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- [Sargon's ICGA Tournaments](#)
- [The chess games of Sargon](#) from [chessgames.com](#)
- [Classic Computer Chess - ... The programs of yesteryear](#) by [Carey](#), hosted by the [Internet Archive](#)
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[Sargon II \(198?\) Apple II cover art - MobyGames](#)
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- [How to Back Up The Sargon II Tape -and- How to Put Sargon II on Disk](#) by R Baker, from [Ira Goldklang's TRS-80 Revived Site](#)
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- [Sargon 4 for DOS \(1989\) - MobyGames](#)
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- [Sargon \(disambiguation\) from Wikipedia](#)
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10. [^ Chafitz ARB Sargon 2.5](#) from [Schachcomputer.info Wiki](#)
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