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ParSOS, (Parallel SOS)

the [parallel](#) version of [Rudolf Huber's MTD\(f\)](#) searcher [SOS](#), written in [C](#). ParSOS played the [WMCCC 2001](#), [WCCC 2002](#), [WCCC 2003](#), [WCCC 2004](#) and the [WCCC 2006 World Microcomputer Chess](#) and [World Computer Chess Championships](#), the [Chess960CWC 2005](#) and [Chess960CWC 2006 Livingston Chess960 Computer World Championships](#), and the [IPCCC 2004](#) and [IPCCC 2007](#). According to a [CCC](#) discussion with [Dieter Bürssner](#) ^[1] and [Vincent Diepeveen](#) ^[2] involved, ParSOS uses a kind of [ABDADA](#) to parallelize MTD(f), utilizing a [Shared Hash Table](#).

Photos & Games



[WCCC 2003](#), [Rudolf Huber](#) and [Steffen A. Jakob](#) ^[3], round 4, [ParSOS](#) - [Hossa](#) ^[4]

```
[Event "WCCC 2003"]  
[Site "Graz"]  
[Date "2003.11.24"]  
[Round "4"]  
[White "ParSOS"]
```

[Black "Hossa"]
[Result "1-0"]

1.c4 e5 2.g3 Nf6 3.Bg2 d5 4.cxd5 Nxd5 5.Nf3 Nc6 6.O-O Nb6 7.Nc3 Be7 8.d3 O-O 9.Be3 Be6 10.Rc1 Nd5 11.d4 exd4 12.Bxd4 Nxc3 13.Bxc3 Bxa2 14.Qa4 Be6 15.Rfd1 Qc8 16.Nd2 Rd8 17.Nc4 Bd7 18.Ne3 Bg5 19.f4 Be7 20.Kh1 Bc5 21.Nd5 Bd6 22.Qc2 Bf5 23.e4 Bg4 24.Rd2 Be6 25.e5 Bc5 26.Be4 Bxd5 27.Rxd5 Rxd5 28.Bxd5 Qd7 29.Rd1 Rd8 30.Qe4 Kh8 31.f5 Qe7 32.Rf1 Nb4 33.f6 gxf6 34.Bb3 c6 35.Rf5 Nd5 36.Rh5 f5 37.Qxf5 f6 38.exf6 1-0

Forum Posts

- [Parallel algorithms in chess programming](#) by [Dieter Bueressner](#), [CCC](#), April 16, 2001 » [ABDADA](#), [Parallel Search](#)
- [CI 89 and Combinations from Graz 2003 - Parsos/DJ & List/Shredder](#) by [Mike Byrne](#), May 08, 2004

External Links

- [SOS' ICGA Tournaments](#) includes ParSOS
- [The chess games of ParSOS](#) from [chessgames.com](#)
- [Interview with SOS programmer Rudolf Huber in German language!](#) by [Frank Quisinsky](#), [Arena Chess GUI 3.0](#) - Archive 9, 132, May 10, 2005

References

1. [^ Parallel algorithms in chess programming](#) by [Dieter Bueressner](#), [CCC](#), April 16, 2001
2. [^ Re: Parallel algorithms in chess programming](#) by [Vincent Diepeveen](#), [CCC](#), April 16, 2001
3. [^ Brutus auf WM-Kurs?](#) by [Peter Schreiner](#), [ChessBase News](#), November 24, 2003 (German)
4. [^ WCCC \(4\) ParSOS vs Hossa \(1-0\) PGN](#) by [Kurt Utzinger](#), [CCC](#), November 24, 2003

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