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[Ad Astra](#) ^[3]

StarTech (*Tech), a massive parallel chess program based on [Hans Berliner's](#) serial program [HiTech](#), performing the [parallel Jamboree](#) search algorithm. It ran on a 512-processor [Connection Machine CM-5](#) supercomputer using a [global transposition table](#) shared among the processors. Unlike Hitech, StarTech does not use the [null-move search](#), and uses the same [search extensions](#) in both the serial and the parallel implementations ^[1]. StarTech tied for third place at the [ACM 1993](#) ^[2]. Incorporating the ACM 1993 winner, the serial program [Socrates II](#) by [Don Dailey](#) and [Larry Kaufman](#), StarTech emerged to [*Socrates](#).

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Acknowledgments

StarTech spans three universities and one corporation, with contributions from people at [Carnegie Mellon](#)

[University](#) (CMU), the [Massachusetts Institute of Technology](#) (MIT), the [National Center for Supercomputing Applications](#) at the [University of Illinois at Urbana-Champaign](#) (NCSA), and [Thinking Machines Corporation](#). Primary author [Bradley Kuszmaul](#) was supervised by [Charles E. Leiserson](#), helped and supported by Hans Berliner and [Chris McConnell](#) for the serial version of HiTech, and further by [Robert D. Blumofe](#), [Mark Bromley](#), [Roger Frye](#), [Richard Karp](#), [John Mucci](#), [Ryan Rifkin](#), [James Schuyler](#), [David Slate](#), [Larry Smarr](#), [Lewis Stiller](#), [Kurt Thearling](#), [Richard Title](#), [Al Vezza](#), [David Waltz](#), and [Michael Welge](#)^[4]. Hans Berliner, Richard Karp, David Slate, and Lewis Stiller all contributed to a mini-seminar on chess held at Thinking Machines Corporation on August 12, 1991. In particular, Richard Karp suggested that StarTech should be based on Hans Berliner's HiTech rather than [GNU Chess](#)^[5].

See also

- [Astronomy](#)
- [Star Socrates](#)

Publications

- [Bradley C. Kuszmaul](#) (1994). *Synchronized MIMD Computing*. Ph. D. thesis, Department of Electrical Engineering and Computer Science, [MIT](#), [pdf](#)
- [Chris Joerg](#), [Bradley C. Kuszmaul](#) (1994). *Massively Parallel Chess*. Third DIMACS Parallel Implementation Challenge, [Rutgers University](#), [pdf](#)
- [Bradley C. Kuszmaul](#) (1995). *The StarTech Massively Parallel Chess Program*. [ICCA Journal](#), Vol. 18, No. 1, [pdf](#)

Forum Posts

- [1993 ACM International Computer Chess Championship \(with corrections\)](#) by [Bradley Kuszmaul](#), [rec.games.chess](#), February 19, 1993
- [Re: Hash tables----Clash!!!-What happens next?](#) by [Albert Gower](#), [rec.games.chess](#), March 19, 1994

External Links

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References

1. [^ Bradley C. Kuszmaul](#) (1995). *The StarTech Massively Parallel Chess Program*. [ICCA Journal](#), Vol. 18, No. 1, [pdf](#)
2. [^ Danny Kopec](#), [Monroe Newborn](#), [Michael Valvo](#) (1994). *The 23rd ACM NACCC in Indianapolis*, in [The 24th ACM International Computer Chess Championship](#) from [The Computer History Museum](#), [pdf](#)
3. [^ Yvonne Kendall](#) - Ad Astra: To the Stars, 2013 - Fabric, yarn, chair and suitcase, [Flottmann 30 hoch](#) - 30 years anniversary exhibition, [Flottmann-Hallen](#) in [Herne](#), [North Rhine-Westphalia](#), [Germany](#), part of [The Industrial Heritage Trail](#) of the [Ruhr area](#), Photo by [Gerd Isenberg](#), September 18, 2016
4. [^ Bradley C. Kuszmaul](#) (1995). *The StarTech Massively Parallel Chess Program*. [ICCA Journal](#), Vol. 18, No. 1, [pdf](#), pp. 14, Acknowledgments
5. [^ Bradley C. Kuszmaul](#) (1994). *Synchronized MIMD Computing*. Ph. D. Thesis, Department of Electrical Engineering and Computer Science, [MIT](#), [pdf](#), pp. 146, Acknowledgments

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