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[Chris Daly](#) - [Daly CP](#), [IDIOM](#)  
Chess [GUI](#) prototype <sup>[7] [8]</sup>

### **Daly CP,**

an early chess program developed by [NASA](#) researcher [Chris Daly](#) <sup>[1]</sup> with help from [Kenneth L. King](#), co-founder of [Information Displays, Inc.](#) (IDI) <sup>[2] [3] [4]</sup>, the designer and manufacturer of the stand-alone [computer-aided design](#) (CAD) platform [IDIOM](#) (IDI Input-Output Machine) <sup>[5]</sup>.

Daly CP participated the [First United States Computer Chess Championship](#) 1970 in [New York](#) and became runner-up behind [Chess 3.0](#). It won its games versus [Schach](#) and [Wita](#), and lost from [Coko III](#). Unlike the other programs with communication links to their mainframe computers, the IDIOM workstation was on site at [New York Hilton](#) <sup>[6]</sup>.

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## **Description**

Daly CP was written in [assembly language](#) to run on the IDIOM system based on a [Varian 620/i minicomputer](#) <sup>[9] [10]</sup>. The program required 4KByte of [memory](#) and [searched](#) all moves to [depth](#) of 4 [ply](#).

Essentially, it was an implementation of the [Shannon Type A Strategy](#) <sup>[11]</sup>. Along with [J. Biit](#) which was operated through a chess [GUI](#) written at [Columbia University](#) for the [IBM 2250 Display Unit](#) <sup>[12]</sup>, Daly CP was one of the first chess programs with a [Graphical User Interface](#).

## Selected Games

[ACM 1970](#), round 3, [Wita](#) - [Daly CP](#) <sup>[13]</sup>

```
[Event "ACM 1970"]
[Site "New York, USA"]
[Date "1970.09.02"]
[Round "3"]
[White "Wita"]
[Black "Daly CP"]
[Result "0-1"]
```

```
1.e3 e5 2.d4 Qg5 3.h4 Qf6 4.Qf3 Bb4+ 5.Nc3 Qxf3 6.Nxf3 Bxc3+ 7.Bd2 Bxb
2
8.Rb1 e4 9.Ne5 Ba3 10.Bb4 Bxb4+ 11.c3 Bxc3+ 12.Kd1 d6 13.Bb5+ Ke7
14.Kc2 dxe5 15.Kxc3 Be6 16.d5 Bxd5 17.Bc4 Bxc4 18.Kxc4 b6 19.Rbd1 Nd7
20.f3 exf3 21.Rd2 Ngf6 0-1
```

## External Links

- [Chess in Space - NASA 1970 First Chess Experiments](#) from [Carolus Chess](#)
- [Classic Computer Chess - ... The programs of yesteryear](#) by [Carey](#), hosted by the [Internet Archive](#) <sup>[14]</sup>

## References

1. <sup>^</sup> [Woodrow W. Bledsoe \(1970\). First U.S. computer chess tournament. ACM SIGART Bulletin, No. 24](#)
2. <sup>^</sup> [An Interview with Carl Machover \(pdf\)](#) by [Philip Frana](#), June 20, 2002
3. <sup>^</sup> [Carl Machover, Computer Graphics Pioneer, Dies at 84](#), White Plains, NY (PRWEB) March 07, 2012
4. <sup>^</sup> [SECURITIES AND EXCHANGE COMMISSION - NEWS DIGEST, June 7, 1967](#) (pdf) INFORMATION DISPLAYS PROPOSES OFFERING
5. <sup>^</sup> [Don Bissell \(1998\). Was the IDIOM the First Stand-Alone CAD Platform? IEEE Annals of the History of Computing](#), Vol. 20, No. 2

6. [^ Special Events for Association for Computing Machinery, 25th National Conference](#) (pdf), hosted by [The Computer History Museum](#)
7. [^ Picture](#) dated November 14, 1970, [Chess in Space - NASA 1970 First Chess Experiments](#) from [Carolus Chess](#)
8. [^ 14.Unique Computers: Flickr](#) by [Chewbanta](#)
9. [^ The Minicomputer Orphanage](#)
10. [^ Varian Data Machines](#) from [The Computer History Museum](#)
11. [^ Monroe Newborn](#) (1975). *Computer Chess*. Academic Press, New York, N.Y. ISBN 0-125-17250-8.
12. [^ Recollections of CUCC 1968-70 -The CCCP Chess Program](#)
13. [^ PGN Download NACCC](#) from [Computerschaak/Downloads/Games](#) hosted by [CSVN](#)
14. [^ Re: Old programs CHAOS and USC](#) by [Dann Corbit](#), [CCC](#), July 11, 2015

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