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Neurosis-3d

Neurosis,

a [WinBoard](#) compatible chess engine written by [Stan Arts](#) in [Pascal](#), compiled with the [Free-Pascal](#) compiler. First released in May 2003, it evolved from Stan's earlier programs [Stan's Chess](#) and S-chess ^[1], the new name in dependence on the [post-metal](#) band [Neurosis](#), one of Stan's favorites ^[2]. Beside the WinBoard engine, Stan offers the stand-alone [Windows](#) program Neurosis-3d with its own [3D graphics board](#), both hosted by [Leo Dijkman](#) at [WBEC Ridderkerk](#) ^[3].

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Description

Neurosis applies [alpha-beta](#) inside an [iterative deepening](#) framework with [aspiration](#) and [transposition table](#), [IID](#) ^[4], various [extension](#) and [pruning](#) techniques, including "intelligent" [delta pruning](#) in [quiescence search](#) ^[5]. Already S-chess had quite a bit of chess-knowledge about [king safety](#), [development](#), [center control](#), and [pawn structure](#), such as [doubled and tripled pawns](#), [isolated pawns](#), pawn groups, [passed pawns](#), etc. Due to re-writes and clean ups, Neurosis' [search](#) ^[6] and [evaluation](#) have been revised several times, yielding in considerably improved passed pawn handling, and in general faster and deeper search.

Tournament Play

Neurosis had its debut at the [ICT 2004](#), and further played the [DOCCC 2004](#), [DOCCC 2005](#) and [ICT 2006 CSVN](#) tournaments over the board, as well the [CPT 2009](#) and [CPT 2011](#) Chess Programmers Tournaments organized by [Richard Pijl](#). Online, Neurosis played the [CCT7](#), [CCT9](#) and [CCT11](#), and the [WCRCC 2007](#) and [WCRCC 2008](#) ACCA World Computer Rapid Chess Championships.

Photos



[DOCCC 2005](#): [Harm Geert Muller](#) and [Stan Arts](#), [Neurosis](#) puts [Usurpator's](#) heating on full blast ^[7]

Selected Games

[DOCCC 2004](#), round 7, [GoldBar](#) - [Neurosis](#) ^[8]

```
[Event "24th DOCC"]  
[Site "Leiden NED"]  
[Date "2004.10.23"]  
[Round "07"]
```

```
[White "GoldBar"]  
[Black "Neurosis"]  
[Result "1/2-1/2"]
```

```
1.e4 e5 2.Nf3 Nc6 3.Bb5 a6 4.Ba4 b5 5.Bb3 Nf6 6.O-O Be7 7.Re1 O-  
O 8.c3 d6  
9.h3 Bb7 10.d4 Re8 11.Nbd2 exd4 12.cxd4 Rc8 13.Ng5 Rf8 14.e5 dxe5 15.d  
xe5  
Nd5 16.Nde4 Nxe5 17.Nxh7 Kxh7 18.Qh5+ Kg8 19.Qxe5 Qd7 20.Qg3 Qf5 21.Bh  
6 Qg6  
22.Qxg6 fxxg6 23.Bd2 Rf5 24.Re2 Kf8 25.Rae1 Nf4 26.Bxf4 Rxf4 27.Bc2 g5  
28.g3  
Bxe4 29.gxf4 Bxc2 30.Rxc2 gxf4 31.Re6 a5 32.Re5 c5 33.Rf5+ Kg8 34.Rxf4  
Rd8  
35.Re4 Kf7 36.Re5 Bd6 37.Re3 a4 38.Kg2 Rb8 39.Rd2 Rb6 40.Rd5 Kf6 41.Rf  
3+ Kg6  
42.Rfd3 Be7 43.Re3 Rb7 44.Rde5 Kf7 45.b3 a3 46.h4 b4 47.h5 Rc7 48.Rf3+  
Bf6  
49.Re4 Rc6 50.Rf5 Kg8 51.Kg3 Kh7 52.Rd5 c4 53.Rxc4 Rxc4 54.bxc4 b3 55.  
axb3  
a2 56.Ra5 a1=Q 57.Rxa1 Bxa1 58.c5 Kg8 59.Kf4 Kf7 60.Ke4 Bc3 61.Kd5 Kf6  
62.Kc4 Be1 63.f4 Bg3 64.b4 Bxf4 65.b5 Ke6 66.b6 Kd7 67.Kd5 Bh2 68.c6+  
Kd8  
69.Kc4 Bg1 70.Kb5 Kc8 71.Ka5 Kb8 72.Ka6 Bh2 73.Kb5 Bg1 74.Ka5 Bc5 75.b  
7 Kc7  
76.Ka6 Bd4 77.Ka5 Be5 78.Kb5 Bd6 79.h6 gxh6 80.Kc4 h5 81.Kd5 h4 82.b8=  
R Kxb8  
83.c7+ Kxc7 84.Ke4 1/2-1/2
```

See also

- [Disease](#)
- [Nemeton](#)

Forum Posts

- [Neurosis's Dutch open, and new release](#) by [Stan Arts](#), [CCC](#), October 25, 2004 » [DOCCC 2004](#)
- [Neurosis 1.9](#) by [Stan Arts](#), [CCC](#), June 26, 2005
- [Neurosis 2.5, Programmer's Tournament version](#) by [Stan Arts](#), [CCC](#), February 16, 2009 » [CPT 2009](#)
- [Nemeton, Neurosis \(+N3D\) and StansChess versions available](#) by [Günther Simon](#), [CCC](#), December 20, 2017

External Links

Chess Engine

- [Neurosis](#) from [WBEC Ridderkerk](#)
- [Neurosis 2.5](#) in [CCRL 40/40](#)

Misc

- [Neurosis](#) from [Wikipedia](#)
- [A Bio-Social Theory of Neurosis](#) by [Dr. C. George Boeree](#), [Shippensburg University](#)
- [Neurosis](#) - [A Season In The Sky](#), [YouTube](#) Video

References

1. ^ [Stan's Chess](#) from [WBEC Ridderkerk](#)
2. ^ [Neurosis](#) from [WBEC Ridderkerk](#), Neurosis 2.5, readme.txt
3. ^ [Neurosis](#) from [WBEC Ridderkerk](#)
4. ^ [Re: movei hash report](#) by [Stan Arts](#), [CCC](#), August 13, 2007
5. ^ [Neurosis 2.5 , Programmer's Tournament version](#) by [Stan Arts](#), [CCC](#), February 16, 2009
6. ^ [Neurosis 1.9.](#) by [Stan Arts](#), [CCC](#), June 26, 2005
7. ^ [25th Dutch Open Computer Chess Championship 2005 - Photo Gallery](#)
8. ^ [Neurosis's Dutch open, and new release](#) by [Stan Arts](#), [CCC](#), October 25, 2004

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