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Polar cyclone ^[5]

Cyclone,
an [UCI](#) compliant, [derivative open source chess engine](#) under the [GNU General Public License 3.0](#) written by [Norman Schmidt](#) in [C++](#), based on [Fruit](#) and [Toga](#) ^{[1] [2]}.
Cyclone 3.4 uses [principal variation search](#), [iterative deepening](#), [MVV-LVA](#), [transposition tables](#), [null-move pruning](#), [quiescence search](#), [futility pruning](#), [history pruning](#), [lazy evaluation](#), [razoring](#), and various search [reductions](#) and [extensions](#).
Cyclone's [parallel search](#) utilizes [threads](#) using a [shared hash table](#) ^[3].
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Cyclone **xTreme**, based on [Fruit 2.1](#) by [Fabien Letouzey](#), [Toga II](#) by [Thomas Gaksch](#), [Grapefruit 1.0](#) by [Vadim Demichev](#), Toga CMLX 145e4 by [Teemu Pudas](#), and Cyclone 3.4 by Norman Schmidt, uses a configuration file to obtain more than 150 evaluation, material, search, and transposition table parameters ^[4].

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- [Cyclone 1.0 beta](#) by [Norman Schmidt](#), [CCC](#), July 26, 2008
- [Cylone 1.0 beta now available](#) by [Norman Schmidt](#), [CCC](#), July 27, 2008
- [Cyclone 1.0 and Cyclops 1.0 avaiable](#) by [Norman Schmidt](#), [CCC](#), August 04, 2008
- [Cyclone 2.0 released](#) by [Norman Schmidt](#), [CCC](#), November 03, 2008
- [Cyclone 2.1 released](#) by [Norman Schmidt](#), [CCC](#), November 05, 2008
- [Cyclone 2.3 released](#) by [Norman Schmidt](#), [CCC](#), December 23, 2008
- [Cyclone 3.4 released](#) by [Norman Schmidt](#), [CCC](#), February 01, 2009
- [Cyclone](#) by Aaron87747, [autochess](#), April 28, 2009
- [Annals of testing an elusive engine](#) by [Rainer Neuhäusler](#), [CCC](#), October 05, 2009
- [Cyclone xTreme II](#) by dinosaur123, [Rybka Forum](#), November 11, 2009
- [Cyclone / Fire ... question to Norman!](#) by [Frank Quisinsky](#), [CCC](#), April 29, 2010

External Links

Chess Engine

- [Cyclone from chesslogik.com](#)
- [Fruit \(software\) - Derivatives from Wikipedia](#)
- [Posix ports of some recent version of Toga II](#) by [Michel Van den Bergh](#)

Cyclone

- [Cyclone from Wikipedia](#)
- [cyclic - Wiktionary](#)
- [Clone \(disambiguation\) from Wikipedia](#)

References

1. [^](#) [Fruit \(software\) - Derivatives from Wikipedia](#)
2. [^](#) IMPORTANT: Cyclone is a fork of Toga II 1.4b5 which has been relicensed under the GPL 3.

Code from Cyclone cannot be reused in Fruit/Toga which is GPL 2+., [Posix ports of some recent version of Toga II](#) by [Michel Van den Bergh](#)

3. [^ Cyclone](#) by Aaron87747, [autochess](#), April 28, 2009

4. [^ Cyclone from chesslogik.com](#)

5. [^ Polar cyclone](#) near [Iceland](#) on September 4, 2003, [Jacques Descloîtres](#), [MODIS](#) Rapid Response Team, [NASA/GSFC](#), [NASA Visible Earth: Low off Iceland](#)

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