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Quazar [ULAS J1120+0641](#) <sup>[2]</sup>

**Quazar**,  
an [UCI](#) compliant chess engine by  
[Dmitry Morozov](#), written in [C++](#),  
first released in September 2011.  
Quazar uses [bitboards](#) to [represent  
the board](#) and to [generate moves](#),  
and applies an [alpha-beta search](#)  
inside its [iterative deepening](#)  
framework <sup>[1]</sup>.

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## Selected Games

[TCEC Season 4](#) Stage 2b, Quazar 0.4 - [Shredder 12](#) <sup>[3]</sup>

```
[Event "TCEC Season 4 - Stage 2b"]
[Site "http://tcec.chessdom.com"]
[Date "2013.03.17"]
[Round "6.2"]
[White "Quazar 0.4"]
[Black "Shredder 12"]
[Result "1-0"]
```

1.e4 c5 2.Nf3 e6 3.d4 cxd4 4.Nxd4 a6 5.c4 Nf6 6.Nc3 Qa5 7.Nb3 Qc7 8.Bd3 d6  
9.f4 Be7 10.Be3 b6 11.O-O O-O 12.Qf3 Nbd7 13.g4 h6 14.h4 h5 15.gxh5 Bb7  
16.Rf2 Kh8 17.Rg2 Rg8 18.Rd1 Nh7 19.Qh3 Nh6 20.Rg5 Bc6 21.Bd4 Rac8 22.  
.Re1 Rce8 23.Bf2 Ba8 24.Nd2 Nh7 25.Rg2 Bf6 26.Bb1 Rb8 27.a4 Bxc3 28.Qxc3 Nh  
f6 29.Rg5 Nh7 30.Rg3 Nh6 31.b3 Bc6 32.Bc2 Rbe8 33.Bd1 e5 34.f5 Nc5 35.Bf3  
a5 36.Qe3 Qe7 37.Kf1 Qb7 38.Re2 Rc8 39.Be1 Rcd8 40.Reg2 Kh7 41.Qg1 Kh8 42.  
.Rxc7 43.Rxc7 Rg8 44.h6 Qc8 45.h5 Qf8 46.Bh4 Nh7 47.f6 Nd7 48.Qg4 Qc8 49.  
Qf5 Rxc7 50.fxc7+ Kg8 51.c5 b5 1-0

## See also

- [Astronomy](#)

## Forum Posts

- [Quazar - New Chess Engine](#) by [Dmitry Morozov](#), [CCC](#), October 04, 2011
- [Quazar 0.4 running for the IPON ...](#) by [Ingo Bauer](#), [CCC](#), April 12, 2012

## External Links

### Chess Engine

- [Quazar Chess Engine](#)
- [Quazar by Dmitry Morozov Russia](#) from [sdchess.ru](#) (Russian)
- [Quazar 0.4 64-bit](#) in [CCRL 40/40](#)

### Misc

- [Quasar \(disambiguation\)](#) from Wikipedia
- [Quasar](#) from Wikipedia
- [Quazar](#) - Raise (Rare outtake from the 1978 [Quazar album](#)), [YouTube](#) Video

## References

1. [^ Quazar Chess Engine](#)
2. [^](#) This artist's [impression](#) shows how [ULAS J1120+0641](#), a very distant quasar powered by a [black hole](#) with a [mass](#) two billion times that of the [Sun](#), may have looked. This quasar is the most distant yet found and is seen as it was just 770 million years after the [Big Bang](#). This object is by far the brightest object yet discovered in the [early Universe](#), Author: [Martin Kornmesser](#), [ESO](#), June 29, 2011, [Source](#), [CC BY 4.0](#), [Wikimedia Commons](#), [Quasar from Wikipedia](#)
3. [^ TCEC - Top Chess Engine Championship - Archive Mode](#)

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