

BIRD 3, quo volas?

Parallel execution is here.

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How the time went

- 1998: **First commit** in BIRD history
- 2000: BIRD released as **1.0.0**
- 2005: First **dual-core CPUs** available
- 2011: **CZ.NIC** starts maintaining BIRD
- 2017: First **16-core CPUs** available
- 2017: Integrating IPv4 code with IPv6
- 2018: Filter code heavily optimized
- 2022: **Multithreaded BIRD 3.0-alpha0**



What is done and works

- New filter engine (since v2)
- Asynchronous route export
- BGP thread separation
- Non-blocking RPKI loading
- Pipe thread separation



What is broken in 3.0-alpha0

- Calling ROA check from CLI
- Peak memory management
- Auxiliary Import / export table performance
- MRT dumps
- BMP, Flowspec validation (unmergeable)



Portability issues

```
commit 8cda9cdbcf445ebe828b7bf89dcb4c7f83937756
```

```
Author: Martin Mares <mj@ucw.cz>
```

```
Date: Thu Apr 1 19:23:59 1999 +0000
```

Argh, the fix was wrong.

```
commit e4241f24f2ebc796a9cfb03db2a9502f5ebd9c0c
```

```
Author: Martin Mares <mj@ucw.cz>
```

```
Date: Thu Apr 1 15:35:15 1999 +0000
```

Portability fixes.

```
commit abae6e9cd3f041648eaa85fad2f861515b67c1ce
```

```
Author: Martin Mares <mj@ucw.cz>
```

```
Date: Thu Apr 1 15:33:52 1999 +0000
```

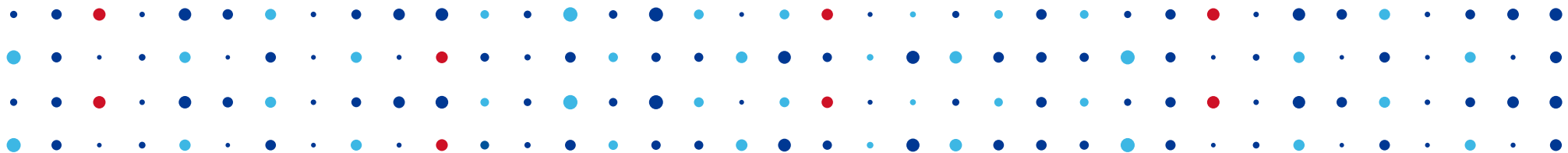
First few FreeBSD portability fixes.



Upcoming features and changes

- JSON route export
- Unified route attribute names
- Non-blocking reconfiguration
- Non-blocking route synchronization (BSD)





Try BIRD 3 today!

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