

PostgreSQL: Past, Present, and Future

BRUCE MOMJIAN,
ENTERPRISEDB

January, 2004

***Enterprise*DB™**

Abstract

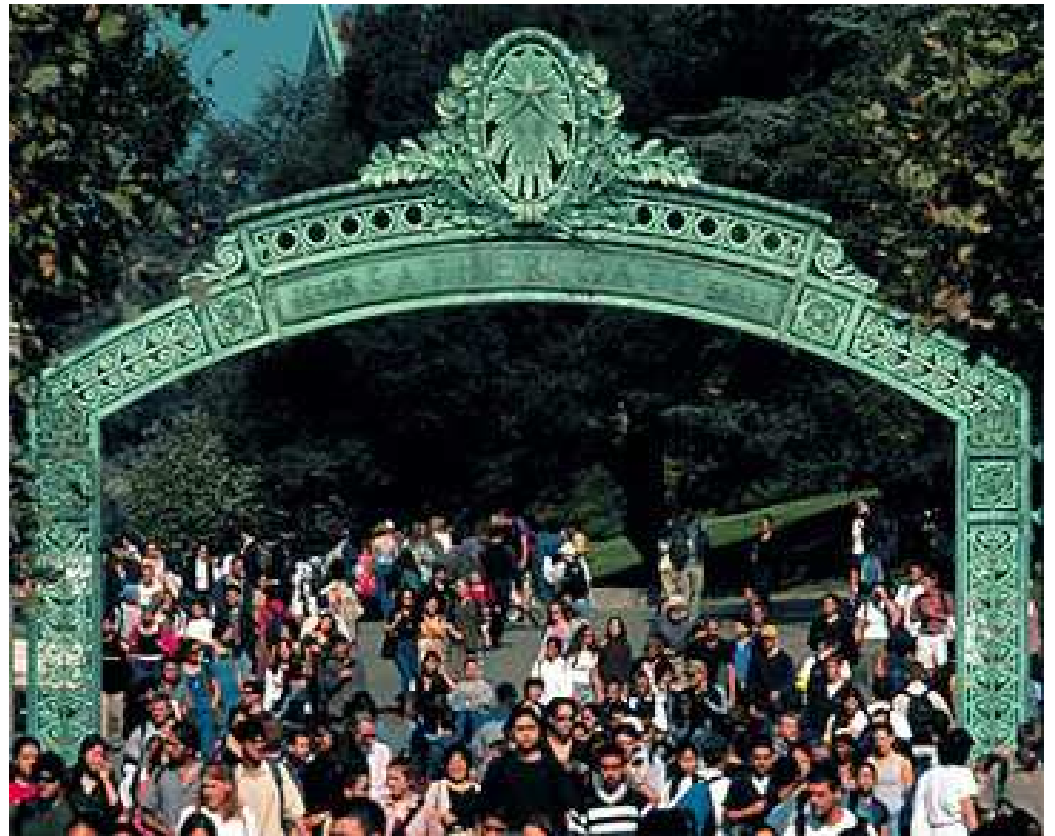
POSTGRESQL has deep roots, a wide user base, and a bright future.

Creative Commons Attribution License

<http://momjian.us/presentations>

PostgreSQL Past

The University of California at Berkeley



Postgres



Michael Stonebraker

Postgres95



Jolly Chen and Andrew Yu

PostgreSQL Code Base History

- Ingres — research prototype, spawned Relational Technologies, purchased by Computer Associates
- Postgres — research prototype, spawned Illustra, purchased by Informix
- Postgres95 — added SQL, spawned PostgreSQL

PostgreSQL Through the Years

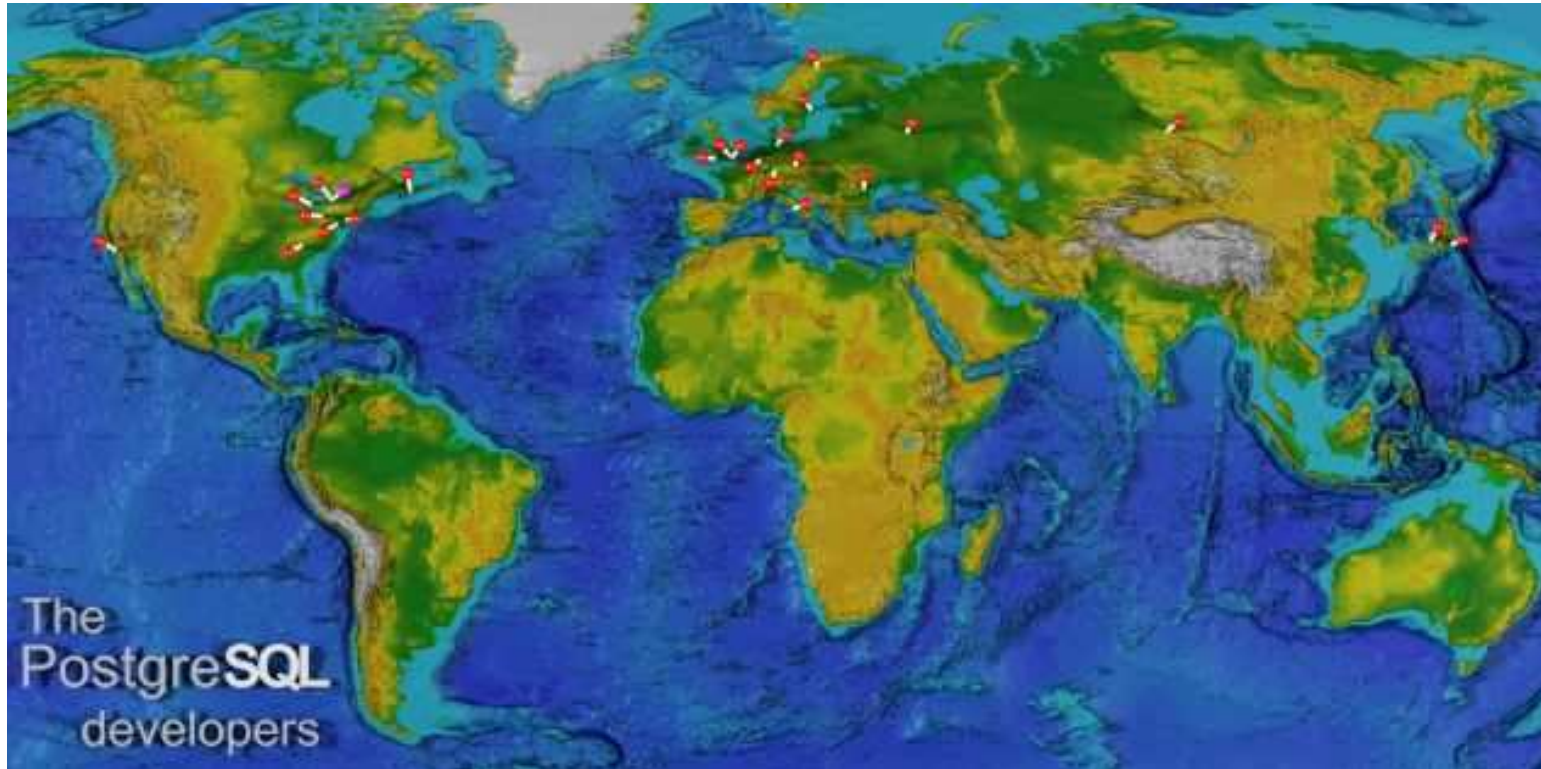
1977-1985 Ingres

1986-1994 Postgres

1994-1995 Postgres95

1996- PostgreSQL

Developer's Globe



PostgreSQL Core Team



Top row: Thomas Lockhart (retired), Jan Wieck, Tom Lane, Marc Fournier

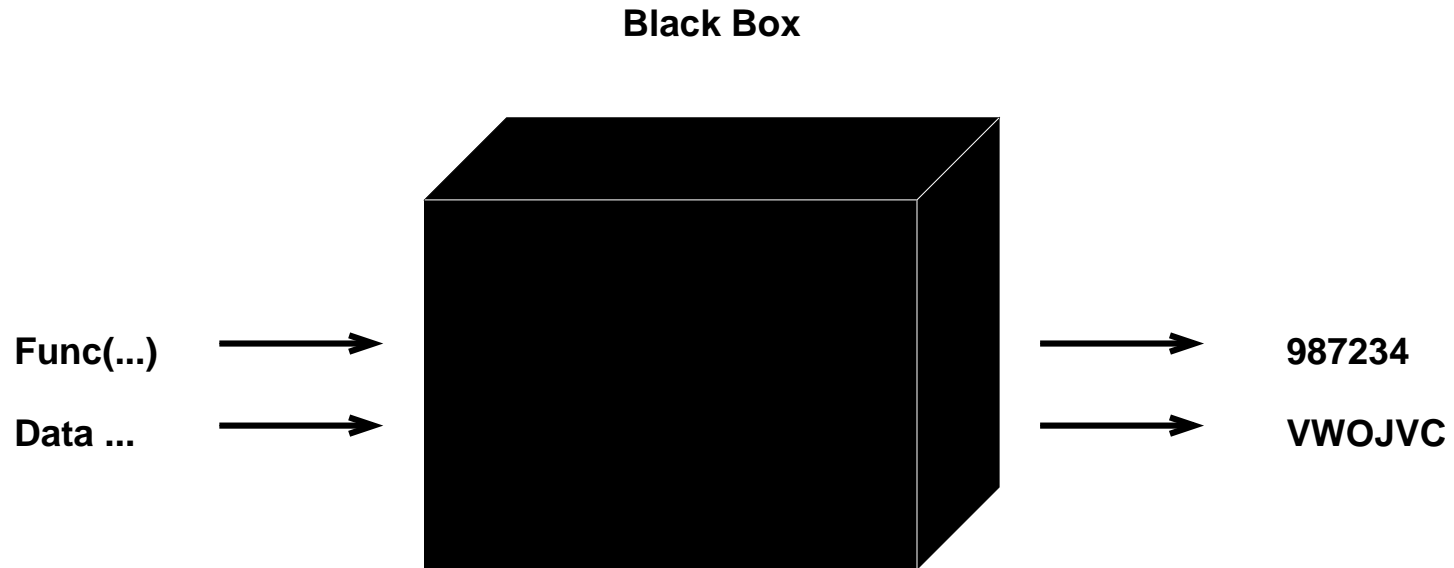
Bottom row: Vadim Mikheev, Bruce Momjian

Release Dates and Sizes

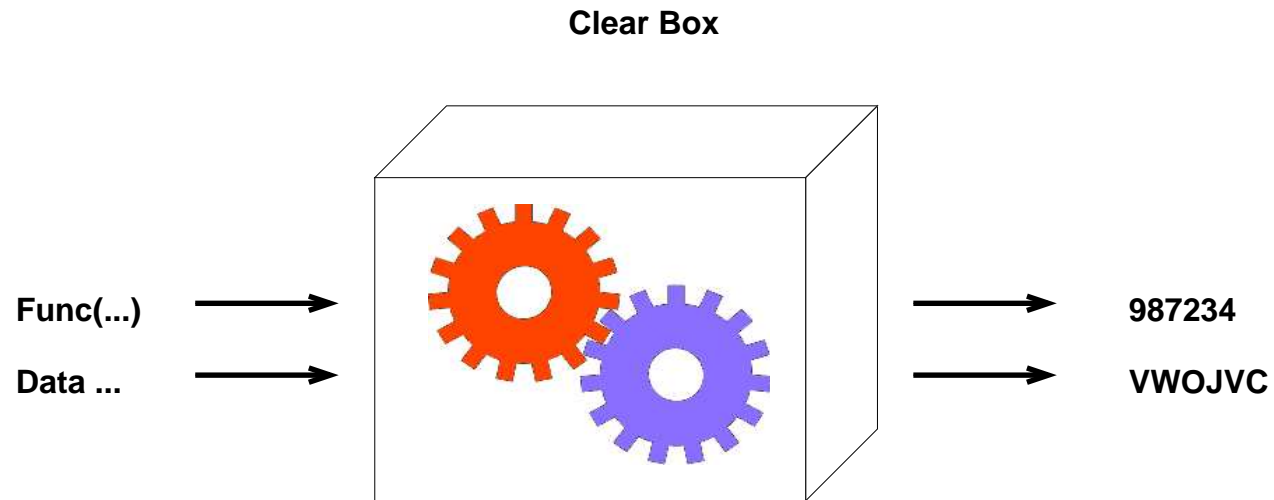
Date	Release	Lines of code
1994		244,581
1996-08-01	1.02.1	
1996-10-27	1.09	178,976
1997-01-29	6.0	
1997-06-08	6.1	200,709
1997-10-02	6.2	225,848
1998-03-01	6.3	260,809
1998-10-30	6.4	297,918
1999-06-09	6.5	331,278
2000-05-08	7.0	383,270
2001-04-13	7.1	410,500
2002-02-04	7.2	394,274
2002-11-27	7.3	453,282
2003-11-17	7.4	508,523
2005-01-19	8.0	654,437
2005-11-08	8.1	630,422

Why Users Choose PostgreSQL

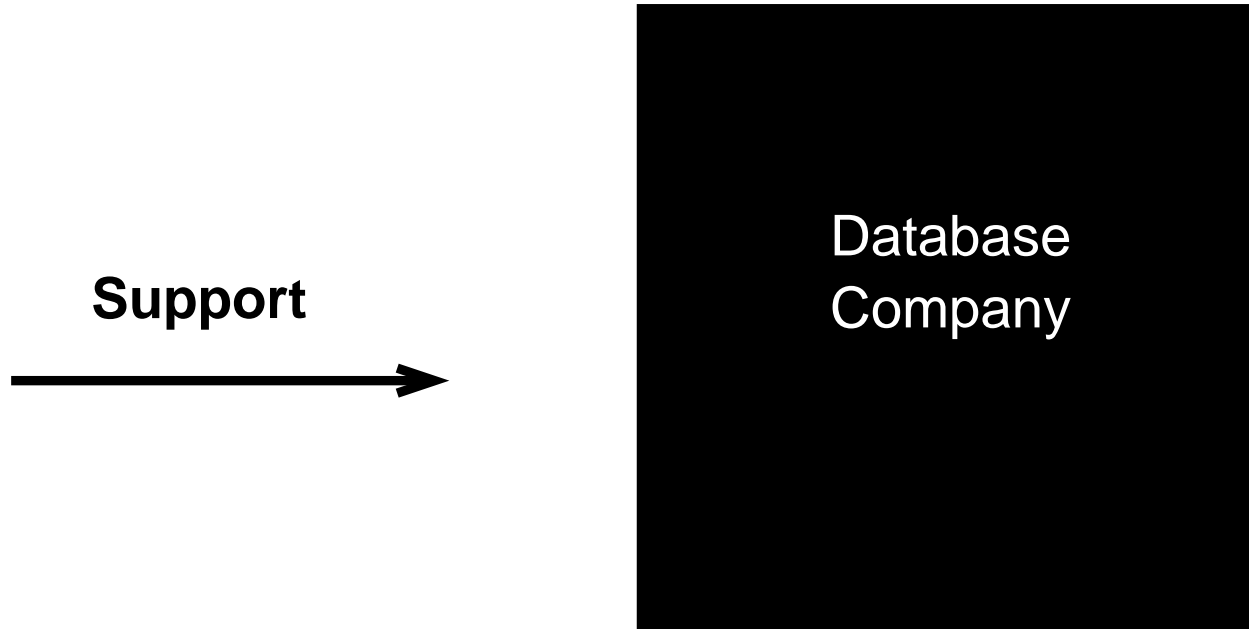
Closed-Source Software



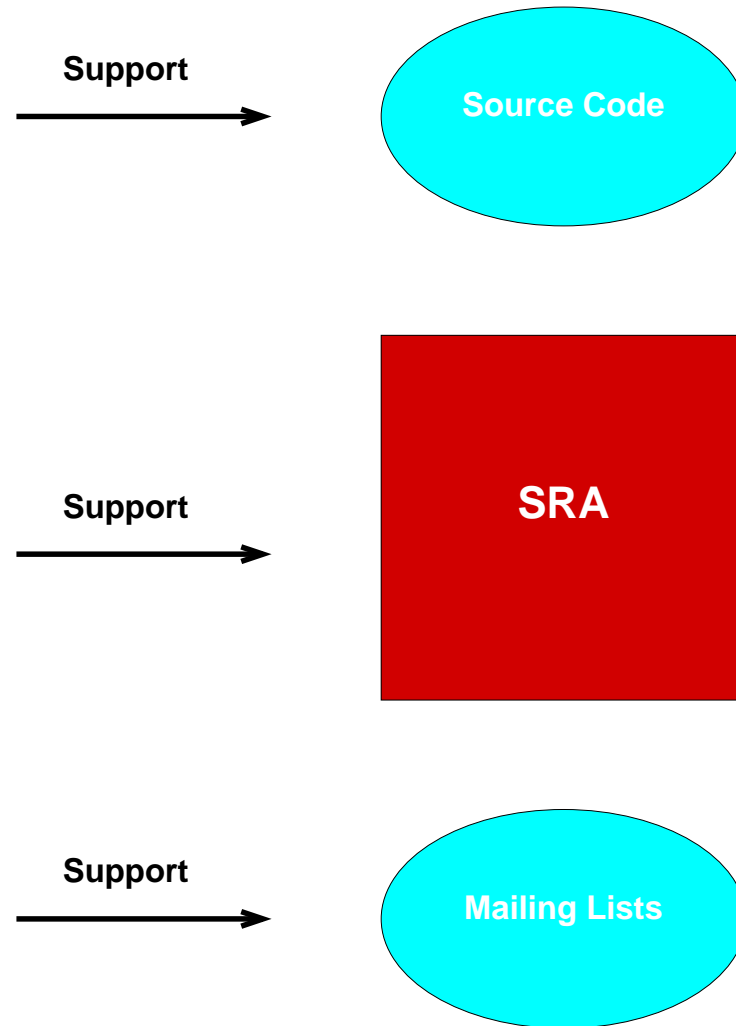
Open-Source Software



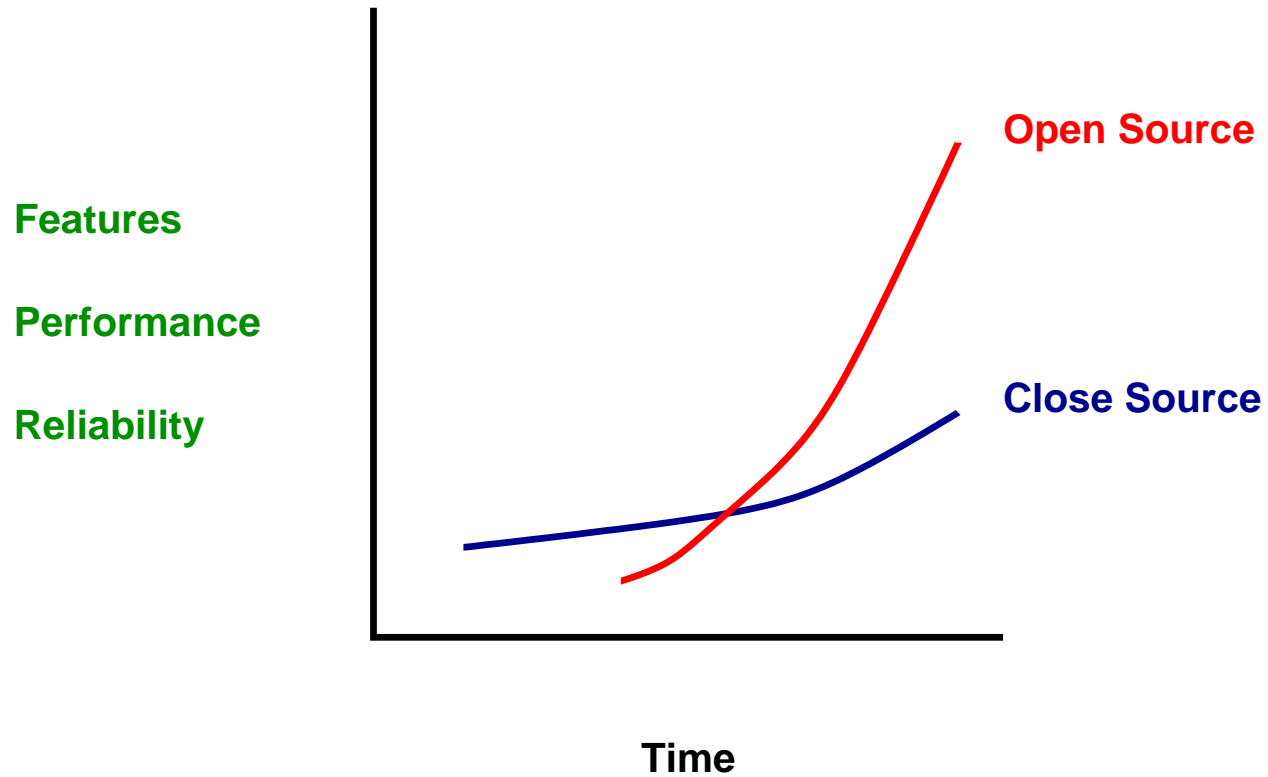
Support of Close-Source Software



Support of Open-Source Software



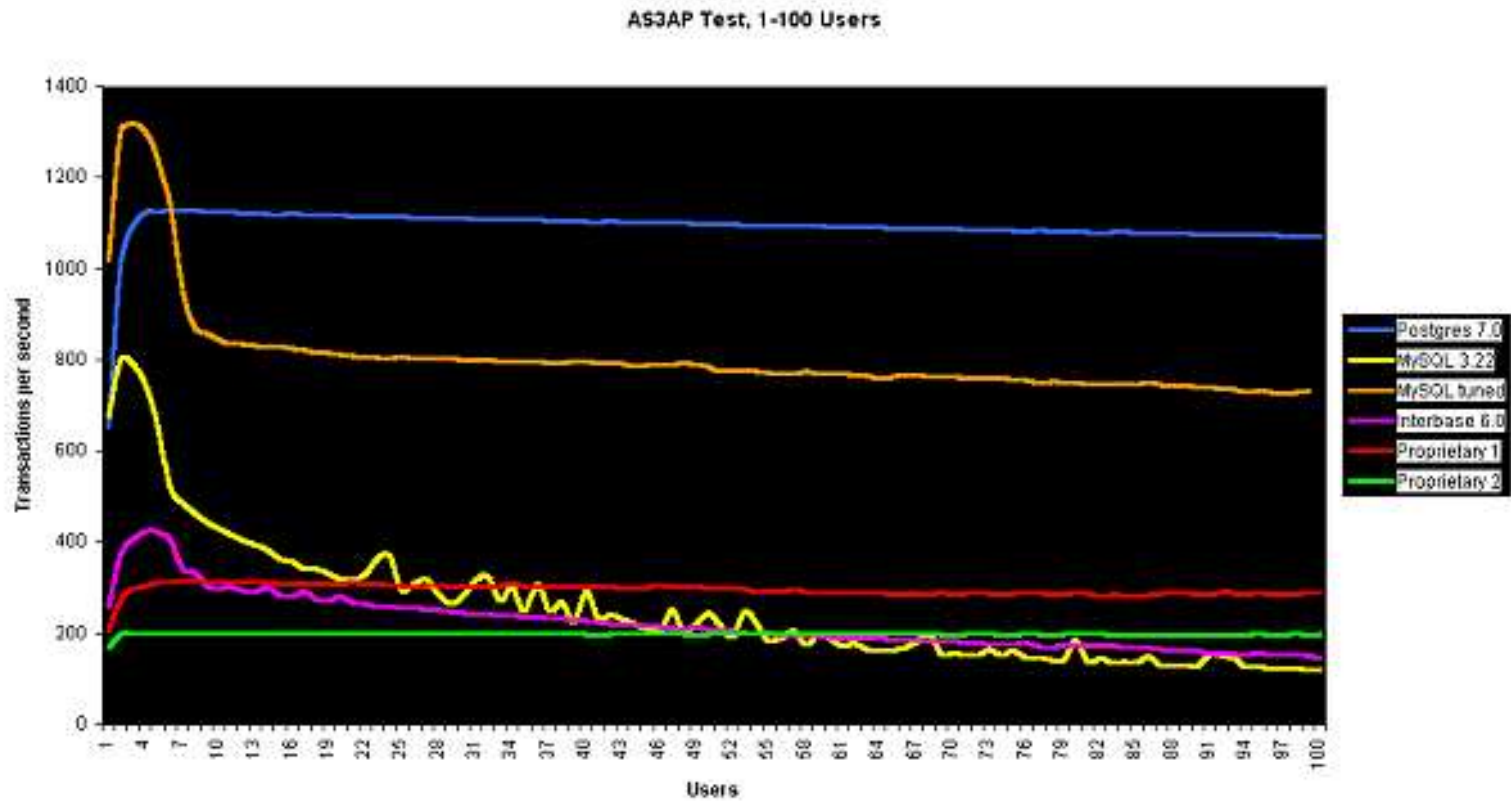
The Future of Open Source



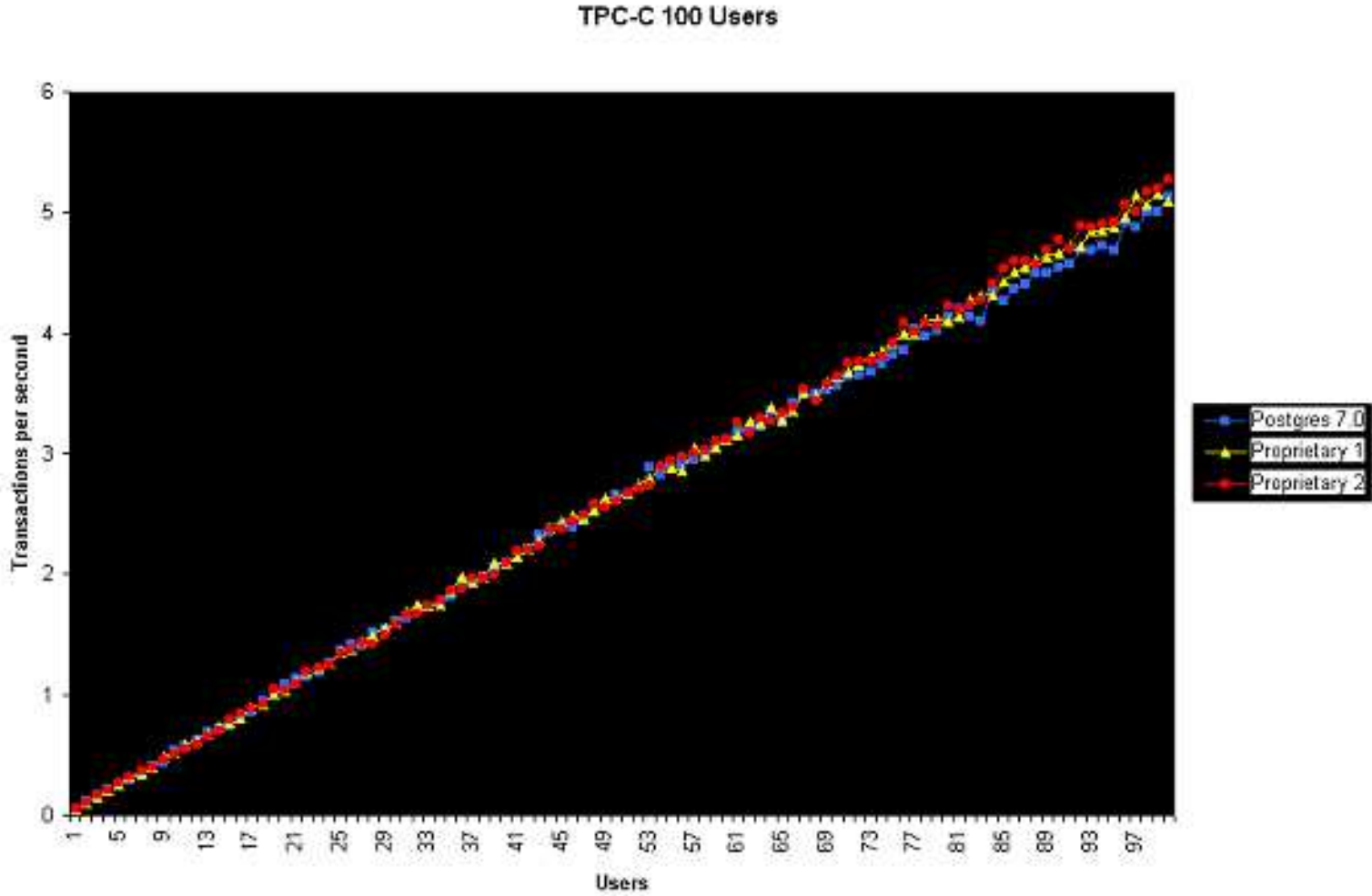
Savings



Performance - AS3AP



Performance - TPC-C



PostgreSQL in the Real World

Database Migration

- Oracle
- IBM's DB2
- Microsoft-SQL
- Microsoft Access
- Informix
- Interbase
- Dbase/FoxPro
- MySQL

PostgreSQL Usage

- Order Entry, Inventory, Billing
- Customer Relations Management (CRM)
- Data warehouse, data analysis
- Medical/Hospital records storage
- Genetics
- Financial Accounting, Banking, Payroll
- Military
- Government, Social services, Elections

- Education
- Publishing
- Geography (GIS)
- Hotel Reservations, Restaurants
- Telephone billing, call tracking
- Helpdesk problem report tracking
- Sales tracking
- Business to business commerce

PostgreSQL Web Site Usage

- Product purchase
- User preferences
- Job listings
- Auctions
- Real estate listings
- Community building
- Dynamic content
- Text indexing

Users

- DaieiOMC
- Tsutaya
- BASF
- The American Chemical Society
- .Org

Future Directions



Conclusion

