

# **Firebird Development and Release Plan**

**Paul Beach**

# This Year Releases

- **Done**

- 1.5.4
- 2.0.1
- 2.0.2 and 2.0.3
- 2.1 Alpha and two Betas

- **To Do**

- 1.5.5
- 2.0.4
- 2.1 Release Candidate
- 2.1 Final

# Firebird 2.1

- **Features**

- Database triggers
- Text BLOB enhancements
- MERGE statement
- Global temporary tables
- CTE and recursive queries
- Monitoring tables
- Query cancellation
- Native authentication on Windows
- Unicode collations and other INTL improvements
- Optimized network protocol
- About 50 new built-in functions
- 64-bit Windows builds
- Countless bugfixes

# Development Priorities

- **Bugfixing**
- **SMP and multi-core capabilities**
- **SQL features**
- **Monitoring capabilities**
- **Optimizer enhancements**
- **Internal performance optimizations**
- **Security**
- **Porting to other platforms**

# Maintenance

- **1.5**

- Security fixes
- Trivial generic bugfixes
- Release 1.5.5 in Q4 2007
- Follow-ups at least once a year

- **2.0**

- All kinds of bugfixes
- Performance improvements
- Porting efforts
- Release 2.0.4 in Q4 2007 - Q1 2008
- Follow-ups at least twice a year

# Current Development

- **Branch 2.0**
  - Bugfixing and porting
- **Branch 2.1**
  - Bugfixing
  - New features are being completed
- **Branch 3.0**
  - MT-safety, merge with Vulcan
  - New features
  - Performance improvements
  - Code cleanup

# Branch 2.0 Activity

- **Bugfixing**

- About 50 bugs fixed per every point release
- Performance regressions are solved
- Backward compatibility options are considered

- **Porting**

- Solaris Sparc and Intel
- MacOS Intel
- AIX
- HP-UX

# Branch 2.1 Activity

- **Features and bugfixes**
- About 70 new features and improvements
- More than 150 bugfixes
- **Current State**
- Beta 2 has just been released
- Feature-freeze mode
- Release Candidate 1 is next

# Branch 3.0 Activity

- **Step 1**

- Multi-threading with private caches
- Efficient in-process lock management

- **Step 2**

- Shared page cache
- Unified architecture (single set of binaries)
- Per-database configuration
- Server- or database-level authentication
- SQL-based user management

- **Step 3**

- Shared metadata cache
- Compiled statements cache

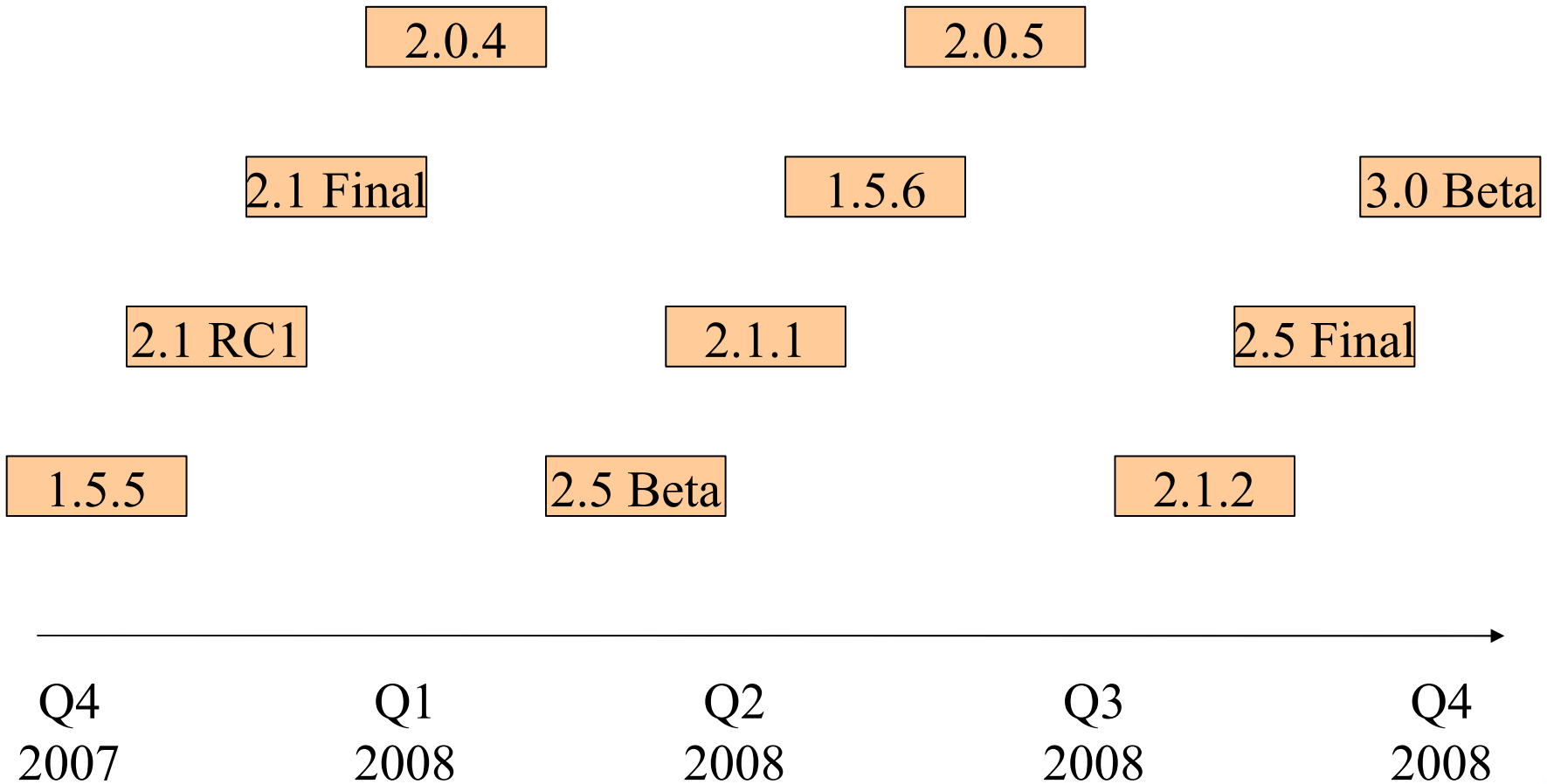
# Firebird 2.5

- **Strategy**
  - “Release often” is still in game
  - Vulcan merge: revolution vs evolution
- **Performance and scalability**
  - Multi-threading
  - Various internal optimizations
- **Features**
  - TYPE OF COLUMN <table name>.<column name>
  - ALTER VIEW
  - Monitoring extensions
  - External procedures

# Firebird 2.5

- **Other possible features**
  - Merge with SAS enhancements
  - Bulk-load facilities
  - Cross-database queries
  - SQL functions
  - Database encryption
- **Schedule**
  - Beta version in Q1 2008
  - Final release in Q4 2008

# Firebird Release Plan



**Questions?**