

Gluons (/'glu:ɒnz/; from English glue) are elementary particles which “keep matter together”.

FOSDEM 2012
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WHY? WHY?
WHY?
ANOTHER?
WHY? ORM
WHY? WHY?

**YOUR NEXT
SOCIAL iPHONE HIT
WILL PROBABLY USE:**

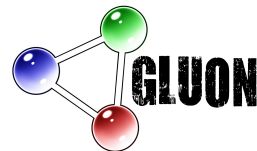
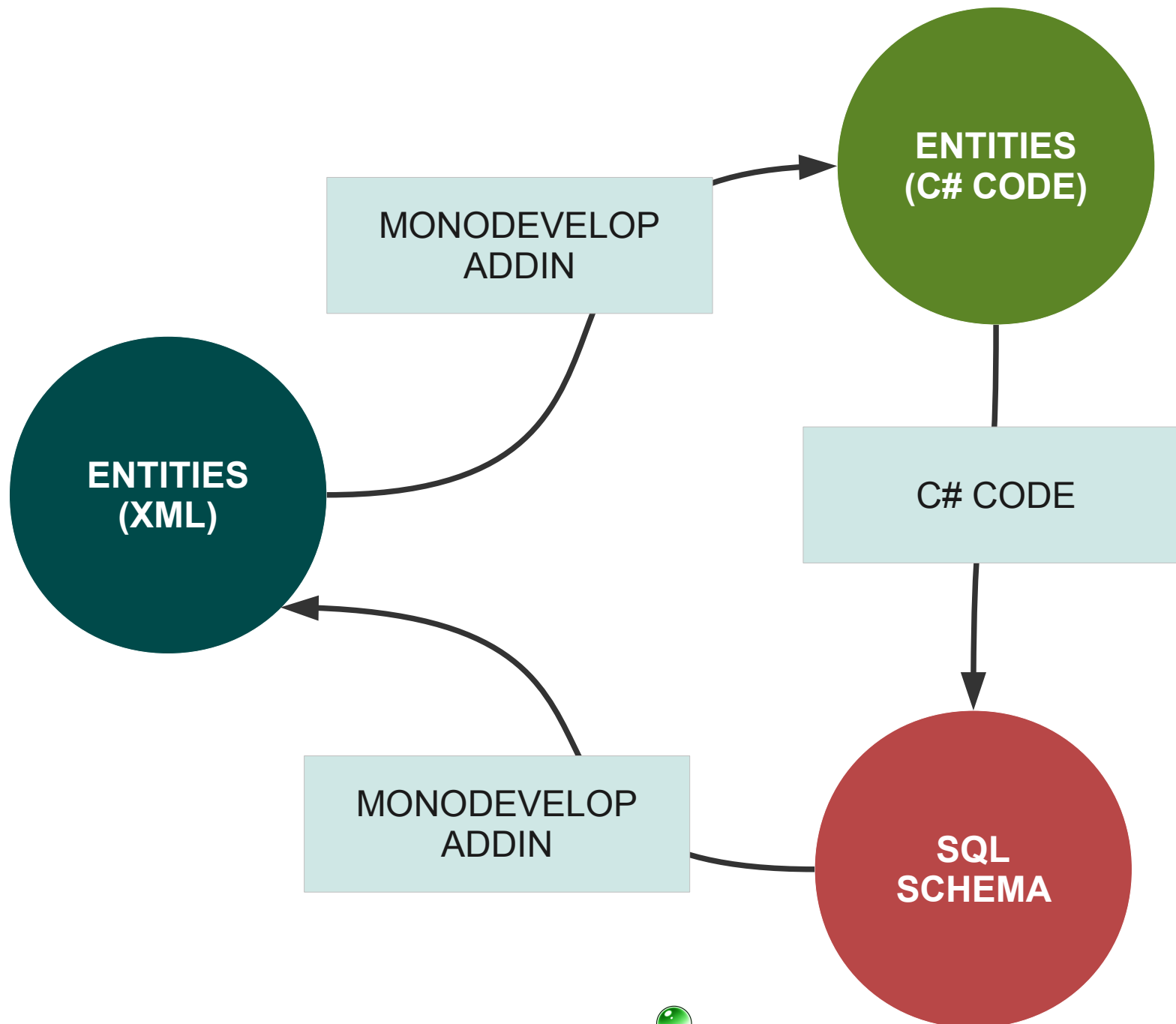
**4 or 5 tables and
3 columns with
integer primary keys**

**BUT OUT THERE
IN THE DARK
LEGACY SQL LURKS!**

**100ths of tables with
horrible names and
multi-column PKs**

**WE DON'T WANT
JUST **ANOTHER ORM****

- + schema analysis**
- + entity management**
- + schema generation**
- + database migrations**



YESSS!

MONO LOVE!

DEVELOP

ADDIN

HARD BOILED EGG!

FOREVER!

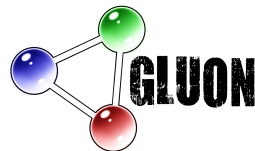
FEATURE:

INSERT

- + INSERT ENTITIES
- + DEFAULT VALUE “SAFE”
- + AUTOMATIC RELOAD OF PKEY
- + EXTRA PROPERTIES
- + BULK INSERT

FEATURE: **UPDATE**

- + UPDATE ENTITIES**
- + EXTRA PROPERTIES**
- + BULK UPDATE**



FEATURE:

DELETE

- + DELETE ENTITIES

- + DON'T NEED LOADED ENTITY

- + BULK DELETE

FEATURE:

LOAD/SQL QUERY

- + LOAD SINGLE ENTITY**
- + OR ARBITRARY SQL QUERIES**
- + EXTRA FIELDS (SQL JOINS)**
- + SUPPORT AGGREGATES**
- + FOREIGN KEY DEREFERENCE**

FEATURE:

AGGREGATES

```
public struct Price {  
    public decimal Value { get; set; }  
    public string Currency { get; set; }  
}  
  
public class Item {  
    public int Id { get; set; }  
    public Price Price { get; set; }  
...  
}
```

FEATURE:

AUTOMATIC PKEYs

**AUTOMATICALLY GENERATE
structs FOR MULTI-COLUMN
PRIMARY KEYS.**

CAN BE USED AS FKEYs TOO.

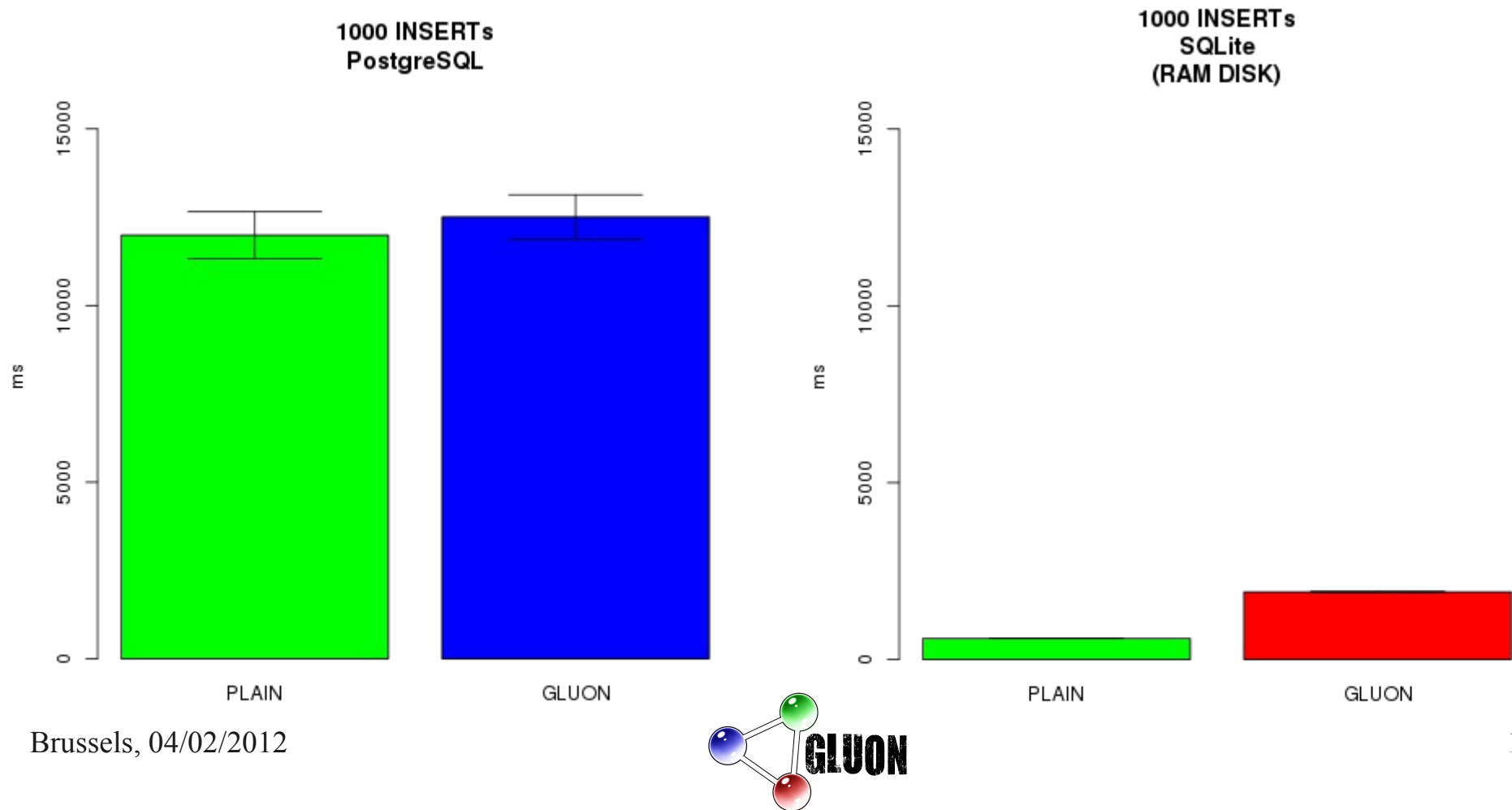
FLAT MODEL AVAILABLE.

SUPPORTED BACKENDS

- + PostgreSQL – FULL SUPPORT**
- + SQLite – FULL SUPPORT**
- + Oracle - ENTITIES**
- + Virtuoso – ENTITIES**
- + MySQL and SQL Server - TODO**

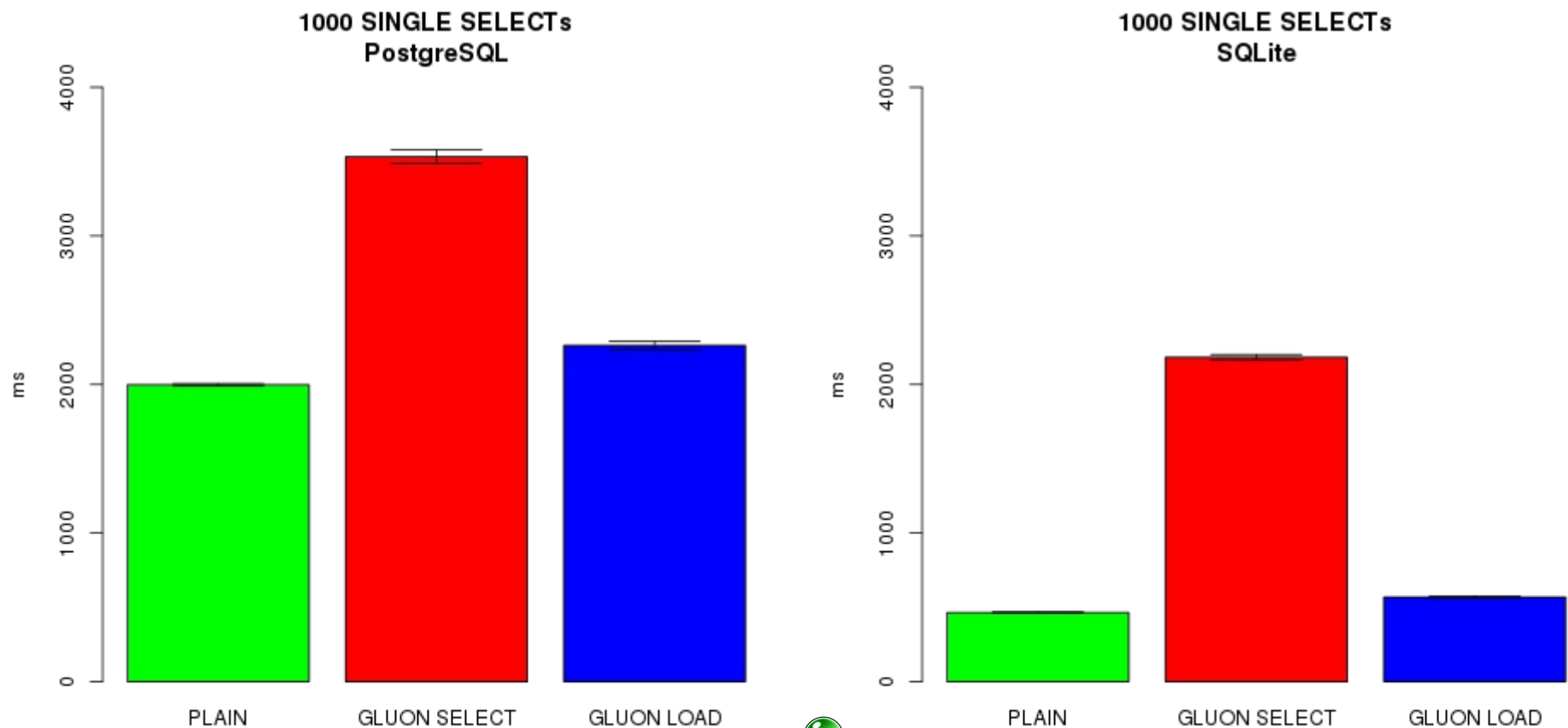
PERFORMANCE:

INSERT



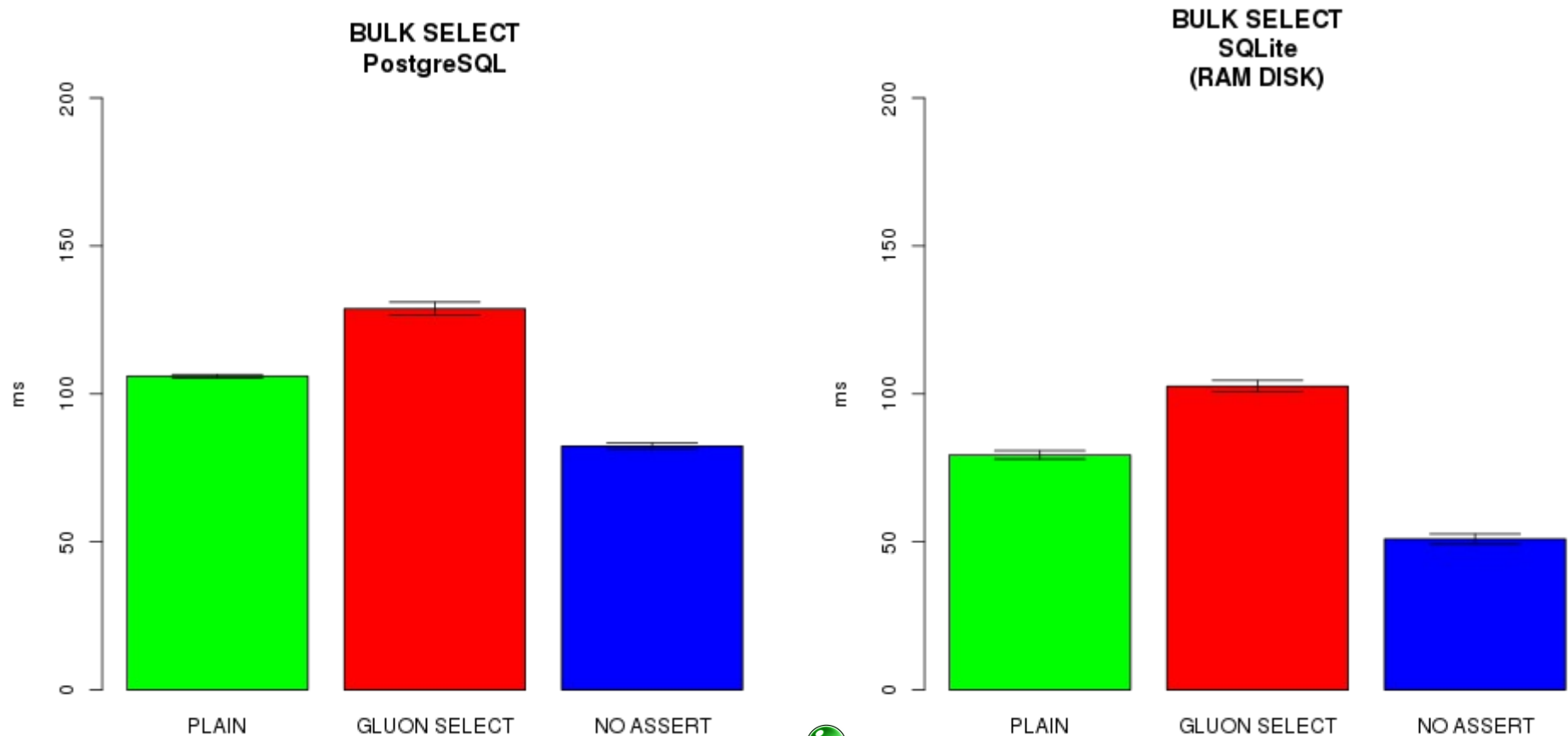
PERFORMANCE:

SINGLE SELECTs



PERFORMANCE:

BULK SELECT



WHAT IS **MISSING?**

- + SCHEMA AND DATA MIGRATION**
- + VISUAL ENTITY EDITOR**
- + VISUAL MIGRATION EDITOR**
- + SESSION MANAGEMENT**
- + FOREIGN KEYS**

WHERE TO GET IT?

git://luna.dndg.it/public/gluon
fog on #mono or #monodevelop
fog@dndg.it

Questions?

