

scala-arm
scala-io
performance
maven-scala-plugin

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scala-arm & scala-io

- Goals
 - Provide Low-Level access for high performance software
 - Provide High-Level access for scripting and giggles
- Core
 - Automated Resource Management
 - Stream API
- File
 - Path based abstractions
 - Pattern matching
 - File Attributes
- Process API (Tie into sys.process in 2.9)

Scala IO TODOs

- Check scala-arm against control flow exceptions
- CSS wizardry for documentation
- performance tests
- sys.process integration
- asynchronous APIs
 - Iteratee's anyone?

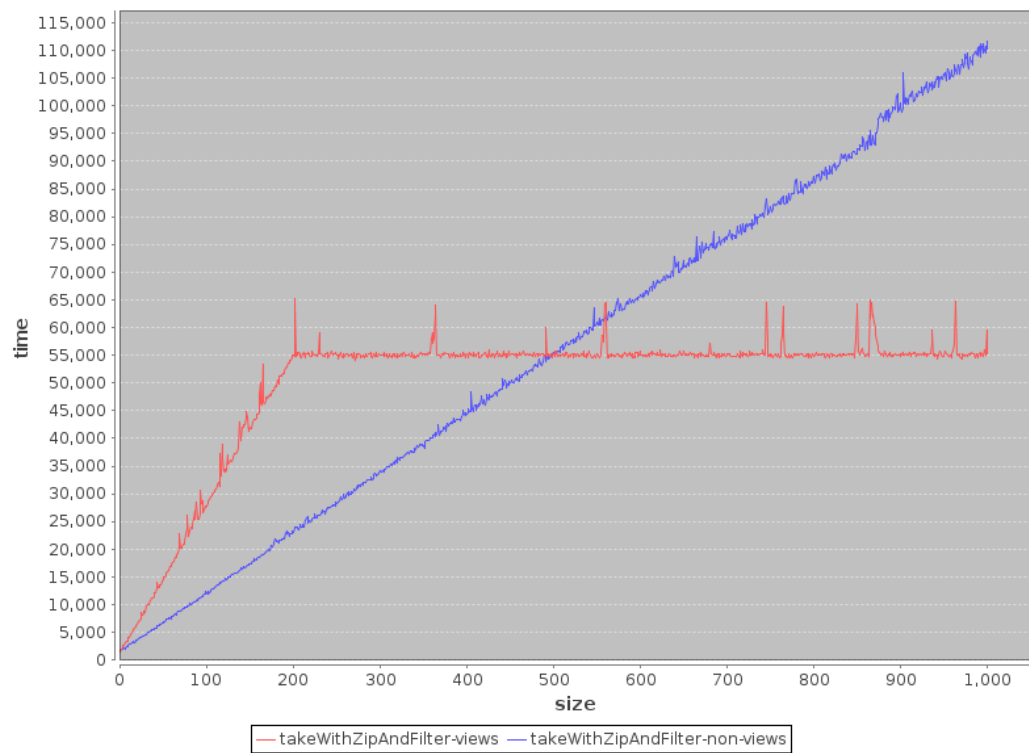
Scala IO path/file APIs

```
val awesome_lines = for {  
  file <- cwd / data ** "*.txt"  
  line <- file.lines()  
  if line contains "scala"  
} yield line
```

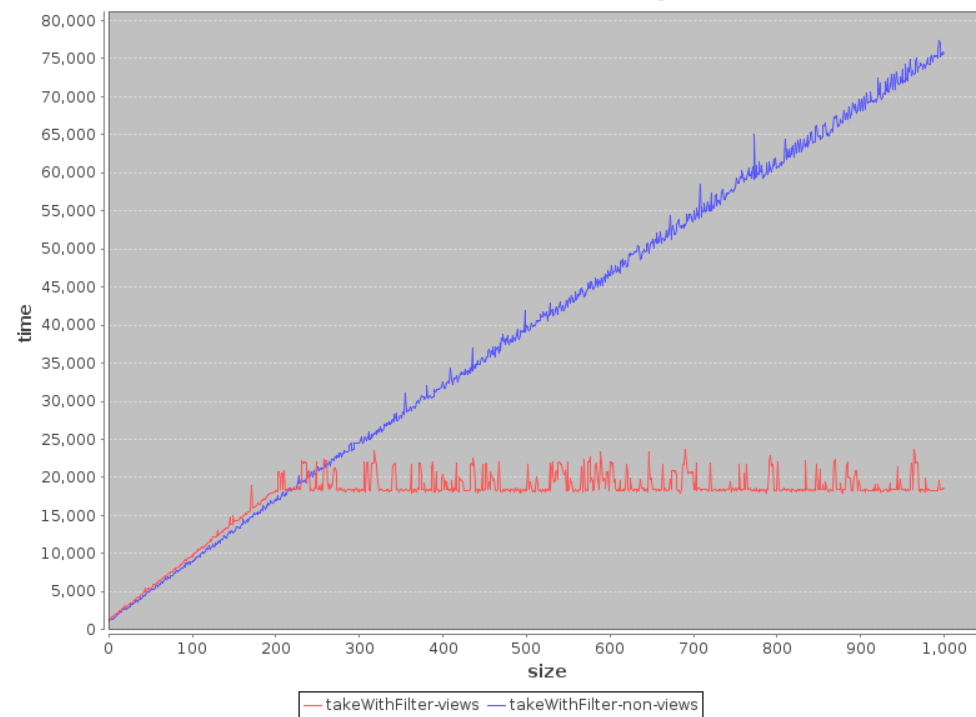
SPerformance

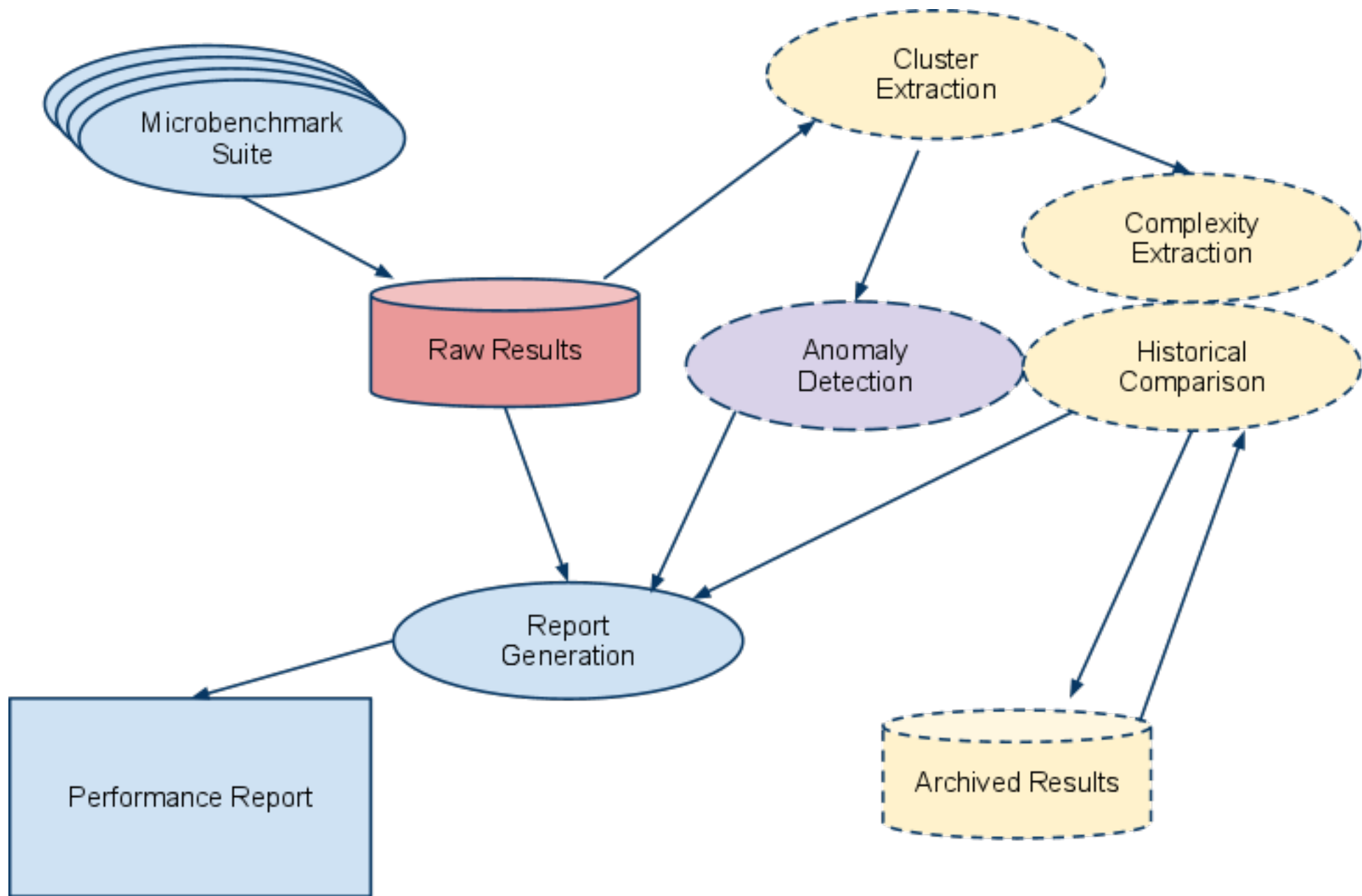
- Microbenchmarking made simple
- Figure out what to graph, so you don't miss things

method -> takeWithZipAndFilter By Size



method -> takeWithFilter By Size





SPerformance: TODOs

- Complexity Detection
 - Ensure scala collections like LinearSeq really do support $O(1)$ head/tail
- Historical comparisons
 - Is my library trending downwards or upwards
 - Did the most recent test show a *significant* performance drop from previous tests on the same architecture
 - *specifically* for scala-io
- Off-loading data into a repository of some sort.

maven-scala-plugin

"First class" Scala support in Maven

- Better dependency tracking/recompilation server
- Better mvn scala:console
 - autocomplete + others
- Writing maven plugins in Scala
- Writing maven builds in Scala

maven-scala-plugin TODOS

FIRST CLASS REPL SUPPORT IN MAVEN!!!

- Let's fix the windows issues
- Archetype creation
- cross-scala publishing mechanism
- multi-threading (We think it should work, but not yet enabled)