

IBM Rational Software Development Conference 2008

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### Myths and Facts

The world is flat. We are the center of the universe.

If the world was flat, could it actually be the center of the universe?

Testing is a 'tickbox' before an application goes into production.

I have:

Test plan?

Execution plan? √

Success criteria? √

Expect issues and plan for them?



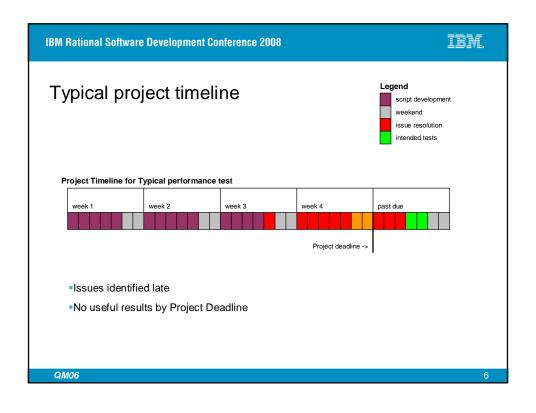
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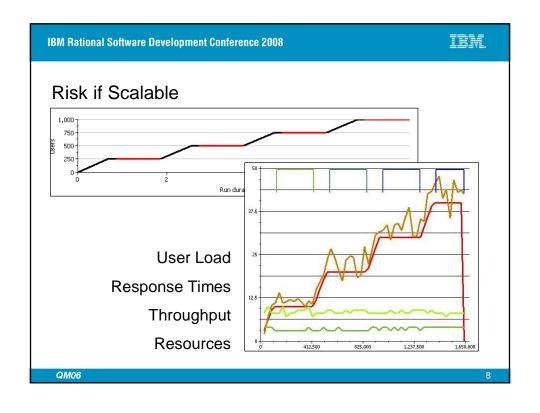
## Well, what if there weren't any issues? Known cases when no issues were found.(1) History from 1989-1993 None History from 1994-1998 None (there was a fable, later proved untrue) History from 1999-2003 None History from 2004-2008 (2) Holding out hope (1) These cases can be found on Wikipedia (8) (2) through 22 Sep 2008

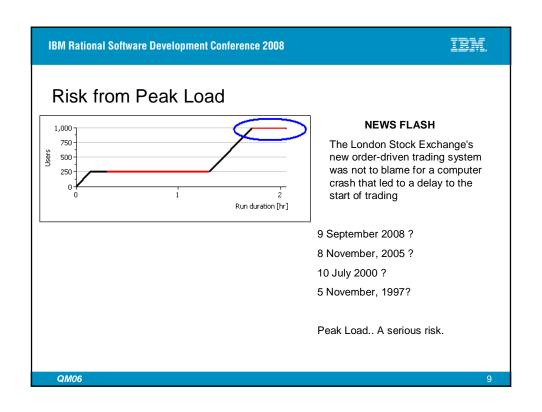
### Process of Results-driven Testing Find issues early Until first issue is found, you (testing) are the bottleneck Find an issue? Issue Resolver becomes bottleneck Testing carries on Accept application quality is what it is, now. Key Points Issue resolution is not a problem, it's an improvement Some issues sequential Issues found early allow more sequential improvement

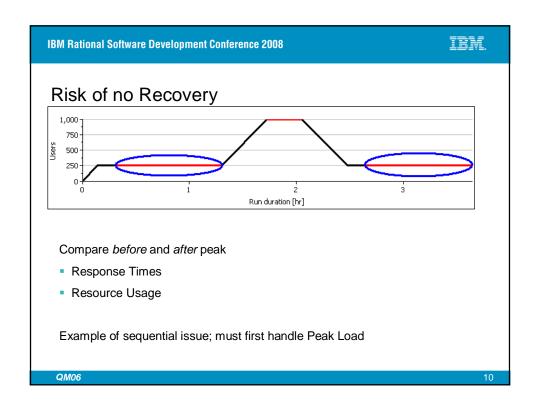
# Typical performance test Test Scripts (Test Cases) -> Results Example Planning 1. Project deadline at 20 days 2. Develop 6 scripts (estimate 12 days) 3. Execute workloads of 25, 50, 100, 500 users (max 8 days) 4. Perform trend analysis 5. Learn what you can Where? Resolving unplanned issues (10 days)

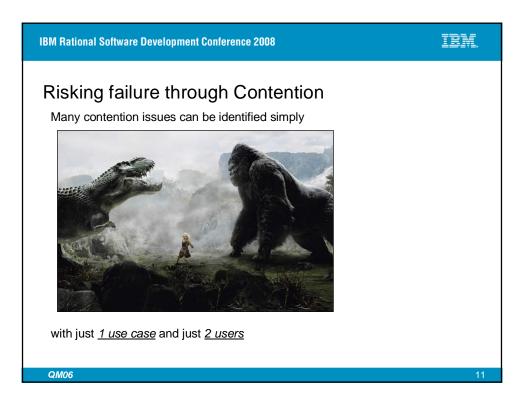


## Results-driven performance test Typical Test Scripts → Results Results-driven Results → Test Scripts 1. Decide which risks we need to cover 2. Risks determine Trends 3. Trends determine Tests 4. Tests need test scripts How many test scripts? To start, what are your risks?







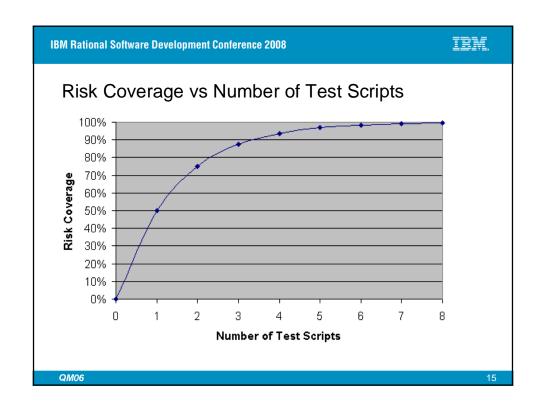


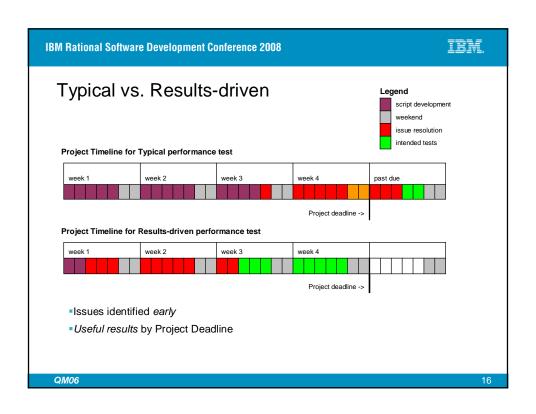


### IBM Rational Software Development Conference 2008 Covering Other Risks - Examples Batch Processes (with and without) Database Volumes (now, in 1, 2, ..., 5 years) Database Type (DB2, MySQL, Oracle) Operating System (Windows, AIX, Linux, ...) Hardware Configuration (pSeries, Blades, zSeries, ...) Stress Test Regression ...

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## Results-driven performance test (review) Decide 1. Which risks 2. Which trends 3. Which tests 4. Minimum number of test scripts More test scripts -> more risk coverage?





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### Results-driven Process Summary

- Decide what you need, what the project risks are
- Work back to trend analysis
- Minimise test scripting (it's a cost)
- Accept there will be issues
  - Plan for them
  - See them as Improvements
  - Make every execution useful
- When is the Performance Test Complete?
  - When you're the bottleneck, time to ask

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### Conclusion

- Focus on Results
- Find issues early
- Improve quality
- And the basic rule

### Don't Be The Bottleneck

If not for sensible reasons, it hurts... just ask this bottleneck

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