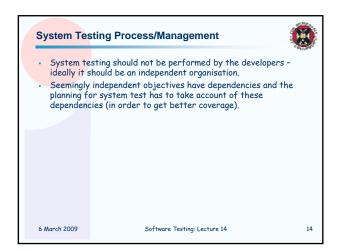


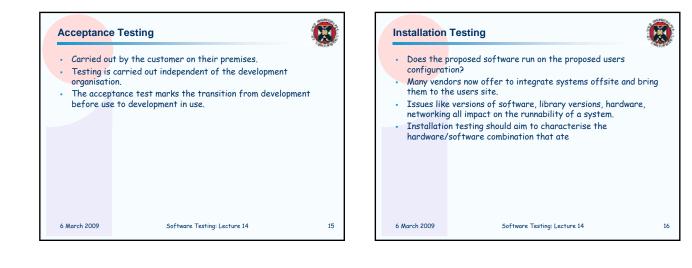
System Test 5

- Configuration Testing: many systems are highly configurable (e.g. SAP and Oracle). A good example of this is a multi-platform system where considerable configuration effort might be required to get a system to run on a particular platform Comparticular platform Comparticular platform Comparticular platform Compatibility/Compliance Testing: Objectives will often include compliance statements that the system is compliant with a standard -this style of testing aims to cover a significant subset of the range of different configurations. Installability Testing: is the system easy to install correctly? Reliability Testing: is the mean time to failure long enoul Recovery Testing: assessing the mean time to repair a fault is often a critical objective of a system Serviceability Testing: how easy is it to upgrade the system? Documentation Testing: how well does the documentation match the actual system behaviour Procedure Testing: many systems involve complex interations between computers and human procedures - are the procedures and the computer system compatible?

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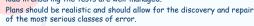
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- A good test plan should:
- Have clear objectives for each phase of testing.
 Have clear completion criteria for each stage of test.
- Have a project plan with clear timings on activities and the dependency between activities.
- 4. Testing responsibilities should be clearly allocated. 5. Large projects should systematically manage resources.
- Appropriate hardware may need to be ordered/configured/secured. 6. 7
- Good tracking of bugs is essential as is the tracking of all testing activity. Good debugging procedures. 8.

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- 9. The capacity to regression test quickly after a fault has been repaired.

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Test Completion Criteria 1 Bad criteria include: - Stop when we run out of time. Stop when test cases fail to find errors. One possible approach is to target a particular residual defect density. We have estimates of the effectiveness of bug finding for different parts of the system and different approaches to bug finding. Providing a target RDD is a good way of structuring the completion of particular stage in the system test. 6 March 2009 Software Testing: Lecture 14

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Summary



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- Higher-order testing is a complex business.
 There is very little hard advice to give since most of the approaches vary depending on the class of system.
 Not all approaches to system testing are necessary for all systems deciding on a suitable collections of system tests can be difficult.

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