CONTINUOUS TESTING WITH JUBULA

WHERE THE RUBBER MEETS THE ROAD!

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AGENDA

What's Jubula?

Why automation & continuous testing?

CI scenarios in theory

... and in Hudson

THAT'S JUBULA!

UI automation @ **eclipse.org/jubula** since 2011
GUI_dancer_ "Core" since 2004

JUBULA FEATURES

code-free end-to-end testing
keyword based & huge library

cross UI-toolkit
SWT/RCP/GEF (e3 & e4) + Swing + HTML

cross-platform
Windows, Linux & Mac OS X

continuous integration tools
testexec, autagent, dbtool, autrun

WHY AUTOMATE UI TESTS & INTEGRATE CONTINUOUSLY?

build safety net for AUT

THE ITE

Integrated **T**esting **E**nvironment
daily test specification & result analysis

DEMO!

THAT'S HUDSON!

continuous integration tool @ **eclipse.org/hudson**

HUDSON FEATURES

(super)-easy setup

central "dashboard" web-app

job **scheduling**

job **distribution**

result processing

CT TOOLS USED

Jubula **2.0.0** - standalone version

Hudson **3.0.0** - plugin bundle WAR

Jubula-CI **ANT scripts**

ANT **1.8.2**

STEPS TO TEST CONTINUOUSLY

build AUT
having a CI is recommended but not mandatory

deploy / install & configure AUT
using a well-defined & stable environment is recommended

start & test AUT

process & analyze results
reaction is necessary

∞

START & TEST AUT - JUBULA CT TOOLS

autagent
starts & remote-controls AUT

testexec
provides & processes test execution information
drives the AUT-Agent » AUT
stores tests & results in database
embedded H2, Oracle, MySQL, PostgreSQL

[autrun] launch multiple AUTs externally

[dbtool] im- & export test projects within CI

START & TEST AUT - STANDARD WORKFLOW

1. start autagent
on test machine

2. start testexec
loads tests from database

3. testexec » autagent: "start & wait for AUT"
via AUT configuration

4. test suite execution
documents all events / steps

5. testexec provides test result
in database & file-system

START & TEST AUT - WORKFLOW

highly customizable
35+ parameters

default layout / test execution
Jubula-CI **ANT scripts**
dbURL, project name, AUT-name, test result directory

naming conventions
AUT-configuration: ci.${os.arch}.${os.name}
Test Suite names: ${AUT-name}-FULLTEST

DEMO!

START & TEST AUT IN HUDSON

execute ANT script
cross-platform

use build trigger
timer (nightly execution), SCM change, ...

execute on hudson slaves
test distribution

DEMO!

THANK YOU! - Q&A?

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