
OUR FRAMEWORK

Our philosophy of testing is summarized in the acronym **SPRAE**.

SPECIFICATION. Testing can be no better than the specification upon which the test design is based.

PREMEDITATION. Testing requires a thoughtful design process.

REPEATABILITY. The process and results of testing must be reproducible, regardless of the tester.

ACCOUNTABILITY. The test process and its results must be captured in an easily reviewable form.

ECONOMY. The overall testing process must not require excessive human effort or computer resource.

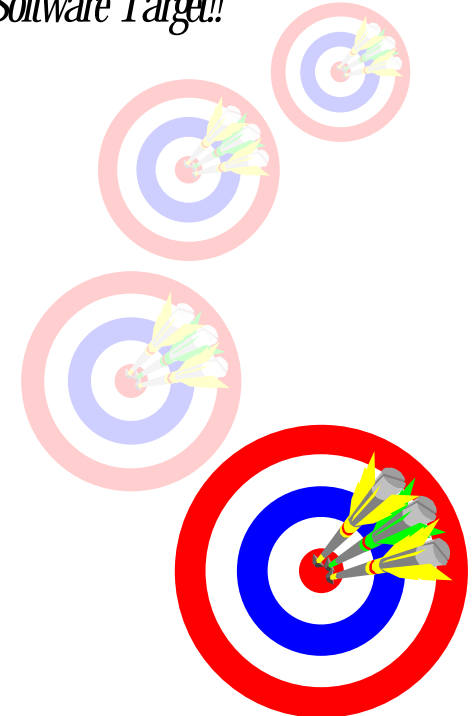
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FAMU SOFTWARE TESTLAB

*Defining the
Software Target!!*



Hitting the Target!!

PURPOSE

The FAMU Software TestLab is an environment in which students learn the art and science of testing software. Each sponsored student learns and leaves behind a growing legacy of tutorials, sample products, test tools and techniques.

ACTIVE PROJECTS

- Coverage analyzer tool set for C, C++ and Java.
 - Function and object testing demonstration test bed.
 - TestLab web site.
 - Testing speech based systems.
 - Operational testing.
 - Combinatorial test design.
 - Object-oriented testing.
 - Automated program grading.
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SPONSORS

Lucent Technologies provided the seed funding for the Test Lab. Other sponsors are Dell Computer, Lockheed Martin, 3M, and Abbott Labs. Sponsors expose students to career opportunities in software testing and provide student internships (ideally in testing).

The research component of the FAMU TestLab is also supported by a National Science Foundation grant. The faculty Director mentors students conducting research in software testing.

More corporate partners are needed to sponsor students and provide internship experiences and faculty mentoring. Sponsors are invited to give technical talks about their company's testing practices. To get involved, contact the TestLab Director.

FOR DETAILS

Visit the FAMU TestLab web site at www.cis.famu.edu/~testlab. Review TestLab projects, past, present and future. View back issues of the TestLab newsletter. Meet the TestLab students and corporate sponsors. Discover ways *your company* can become a sponsor. Contact us at testlab@cis.famu.edu.

THE DIRECTOR

Dr. Edward L. Jones is a graduate of the University of North Carolina at Chapel Hill. For 13 years he was a software engineer for Harris Corporation, specializing in the insertion of technology into the software process. For the past 20 years he has taught software engineering either full time or as an adjunct at various universities on the east coast.
