PREPARED BY	DAVID SAFF
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CONTINUOUS TESTING

DAVID SAFF, MICHAEL D. ERNST
MIT CSAIL
<saff, mernst>@mit.edu

* IDEA:
  - MODERN IDE'S GIVE RAPID FEEDBACK ABOUT COMPILE ERRORS
  - WHAT IF YOUR IDE GAVE RAPID FEEDBACK ABOUT SEMANTIC ERRORS?
  - LET'S USE SPARE COMPUTING POWER
    TO CONTINUOUSLY RUN REGRESSION TESTS IN THE BACKGROUND

* FINDINGS:
  - THE FASTER A DEVELOPER LEARNS OF AN ERROR,
    THE FASTER IT IS FIXED

ISSRE '03 →

  - WHEN CONTINUOUS TESTING IS COMBINED WITH EFFICIENT PRIORITIZATION,
    WE ESTIMATED 8-15% FASTER DEVELOPMENT IN TWO PROJECTS

ISSTA '04 →

STUDENTS USING:	% COMPLETED A WEEK-LONG ASSIGNMENT
NO ADDITIONAL TOOL:	~25%
CONTINUOUS COMPILATION:	~50%
CONTINUOUS TESTING:	~75%

  - WE BUILT IT (IN ECLIPSE), AND THEY CAME (THE USERS)

ETX '04 →

  - WHAT IF INDIVIDUAL TESTS ARE EXPENSIVE? (SEE TOMORROW'S TALK!)