



Contribution ID: 112

Type: poster

BFD: A software management & deployment tool for mixed-language distributed projects

Thursday, 30 September 2004 10:00 (1 minute)

As any software project grows in both its collaborative and mixed codebase nature, current tools like CVS and Maven start to sag under the pressure of complex sub-project dependencies and versioning. A developer-wide failure in mastery of these tools will inevitably lead to an unrecoverable instability of a project. Even keeping a single software project stable in a large collaborative environment has proved a difficult venture in which numerous home-spun and commercial tools have yet to fully succeed.

BFD looks to solve the problems inherent with large scale software projects that span multiple software mixed-language projects. This is accomplished two-fold. BFD extends the versioning methodology of CVS or Maven by enforcing a rich data type format for its version tags. BFD also improves on the naive build ideologies of the developers IDE by being able to resolve complex dependencies between non-related projects as well as knowing when incompatible dependencies cannot be resolved. The concept of the Meta project has also been introduced to allow projects to be grouped together in a logical manner. Thus allowing varying versions of said projects to be kept track of by an overarching framework.

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Session Classification: Poster Session 3

Track Classification: Track 3 - Core Software