**Project:** [New build/distribution structure for Apache Open Office](http://eecs.oregonstate.edu/capstone/viewproposal2013.php?id=16)

**Team Name:** Walnut Crusade

**Client:** Jan Iversen

**Organization:** Apache Software Foundation

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**Project**

**SVN Branch**: <https://svn.apache.org/repos/asf/openoffice/branches/capstone2013>

**Motivation**

AOO’s current build system is old, non-standard, hard to understand, and undocumented. To attract new developers, Apache Software Foundation would like to create a new/modern build system.

**Objectives**

1. Develop a build system for Microsoft Visual Studio (Windows), and Linux. Focus on making Windows development easy.
2. Implement the new build system in parallel with the current build system.
3. Help test the new new build system.

**Deliverables**

1. “How to” report before programming.
2. In June, a build system capable of generating AOO in Windows and in Linux.

**Notes**

1. Client lives in Spain (different timezone, +9 hours), but has teamed up with a local Apache comitter to help us.
2. Programming platform: C++ (bulk), Java, Python, Perl, and some special libraries.
3. AOO is one of the biggest open source packages, and has attracted many professional developers who will support us.

**Resources**

1. Current build system description: <http://wiki.openoffice.org/wiki/Documentation/Building_Guide_AOO/Step_by_step>
2. Appache Open Office website: <http://www.openoffice.org/>
3. First attempt at remaking the build system:
   1. Zen of gbuild: <http://wiki.openoffice.org/wiki/Build_Environment_Effort/Zen_of_gbuild>
   2. Gbuild Bootstrapping: <http://wiki.openoffice.org/wiki/Build_Environment_Effort/Gbuild_Bootstrapping>
   3. Module Migration: <http://wiki.openoffice.org/wiki/Build_Environment_Effort/Module_Migration>
4. Time Converter: <http://www.worldtimebuddy.com/?pl=1&lid=5720727,100&h=5720727>
5. Wiki for project: <http://wiki.openoffice.org/wiki/Build_System_Analysis:capstone2013_windows_build>
6. Build System Analysis: <http://wiki.openoffice.org/wiki/Build_System_Analysis>
7. Apache Xerces websit[e: http://xerces.apache.org/](http://xerces.apache.org/)
8. W3 XML tutorials[: http://www.w3schools.com/xml/default.asp](http://www.w3schools.com/xml/default.asp)
9. Visual Studio changes: <http://msdn.microsoft.com/en-us/library/ee862524.aspx>