c-w-m / **SConsolidator**
forked from IFS-HSR/SConsolidator

An Eclipse plug-in for the build system SCons (scons.org). Edit

Add topics

56 commits | **1** branch | **1** release | **7** contributors

Branch: **master** | **New pull request** | **Create new file** | **Upload files** | **Find file** | **Clone or download**

This branch is even with IFS-HSR:master. Pull request Compare

Thomas Corbat update target for CDT 9.4.0 Latest commit `b0074e7` on Feb 5

ch.hsr.ifs.sconsolidator.core.tests	Fix code warnings	6 months ago
ch.hsr.ifs.sconsolidator.core	Fix code warnings	6 months ago
ch.hsr.ifs.sconsolidator.depviz.feature	Update Bundle-Vendor	7 months ago
ch.hsr.ifs.sconsolidator.depviz	Fix code warnings	6 months ago
ch.hsr.ifs.sconsolidator.feature	Update Bundle-Vendor	7 months ago
ch.hsr.ifs.sconsolidator.help	Update Bundle-Vendor	7 months ago
ch.hsr.ifs.sconsolidator.swtbottests	Fix code warnings	6 months ago
ch.hsr.ifs.sconsolidator.target	update target for CDT 9.4.0	4 months ago
ch.hsr.ifs.sconsolidator.updates	Version bump to 1.0.0	2 years ago
.gitignore	Updated .gitignore	2 years ago
.travis.yml	run xvfb screenbuffer in travis for eclipse tests	4 years ago
README.md	Done #39	2 years ago
changelog.txt	initial commit of sconsolidator v0.6	4 years ago
eclipse-java-google-style.xml	initial commit of sconsolidator v0.6	4 years ago
pom.xml	adapt pom.xmls for new target	11 months ago
runtests.sh	initial commit of sconsolidator v0.6	4 years ago
screenshot.png	Done #39	2 years ago

README.md

SConsolidator - An Eclipse plug-in for SCons

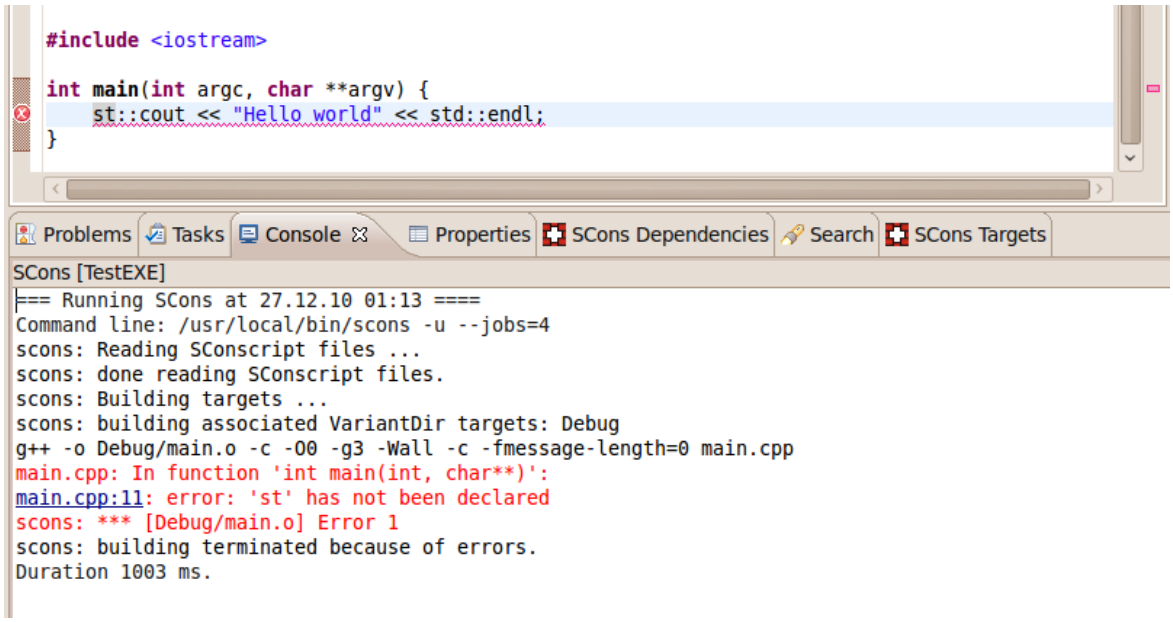
build passing

Install it from our Eclipse Update Site at http://www.sconsolidator.com/update

Introduction

SCons is an open source software build tool which tries to fix the numerous weaknesses of Make clones like the missing automatic dependency extraction, the complex syntax to describe build properties and the cross-platform issues when using shell scripts. SCons is a self-contained tool which is not dependent on any existing platform utilities. Because it is based on Python the user has the full power of a modern scripting language to deal with all build related issues.

For the acceptance of a build tool it is very important to have a comfortable integration into an IDE. Before now there was no satisfying support for SCons in Eclipse. SConsolidator - a term project at the University of Applied Sciences in Rapperswil - addresses this and provides tool integration for SCons in Eclipse for a convenient C/C++ development experience.



Features

- Convertion of existing CDT managed build projects to SCons projects
- Import of existing SCons projects into Eclipse with wizard support
- Interactive mode to quickly build single C/C++ source files speeding up round-trip times
- A special view for a convenient build target management of all workspace projects
- Graph visualization of build dependencies that helps in debugging SCons build problems

Documentation

See this getting started guide for help on how to use SConsolidator with your C++ projects.

Contribution help

Minimum requirements to contribute

- Java 7
- Eclipse 3.7 (Indigo)
- SCons
- Maven v3 (because we use Tycho)

Eclipse project setup

- Install Eclipse and SCons
- Import projects into Eclipse with the project wizard
- Open target file `ch.hsr.ifs.sconsolidator.core.target` and install dependencies through "Set as Target Platform"

Build

We use Tycho and Maven to build the project artifacts:

$ mvn compile

Run tests

$ mvn integration-test

or if you prefer to run the tests in a X screen buffer, you can use the following script:

$ runtests.sh

Project layout

ch.hsr.ifs.sconsolidator.core

SConsoldator's core functionality including all UI stuff, project wizards, builders, Python files for collection build information from existing projects, etc.

ch.hsr.ifs.sconsolidator.core.tests

All Junit tests for SConsolidator's core functionality as well as the tests for collecting build information from existing projects

ch.hsr.ifs.sconsolidator.feature

Eclipse feature project for SConsolidator's core plug-in

ch.hsr.ifs.sconsolidator.depviz

SConsolidators dependency visualization plug-in that shows the dependencies between C++ build entities like source, object and library files; based on the Eclipse's Visualization Toolkit Zest

ch.hsr.ifs.sconsolidator.depviz.feature

Eclipse feature project for SConsolidator's dependency visualization plug-in

ch.hsr.ifs.sconsolidator.help

Eclipse project for SConsolidator's Eclipse help system (Getting started guide, welcome page, etc.)

ch.hsr.ifs.sconsolidator.swtbottests

Some UI tests based on SWTBot

ch.hsr.ifs.sconsolidator.updates

Eclipse Update site project