Visual Lint Build Server

Advanced incremental command line code analysis

Setting up a build server to run code analysis on your code is no trivial undertaking.

Not only can it be messy and slow, but the analysis itself usually runs as a single threaded task, leaving other CPU cores on the build server idle no matter how long it takes to run.

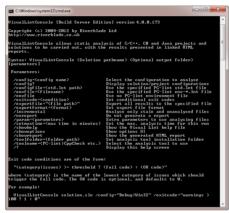
Needless to say, this can be a tedious, error prone and frustrating process which can frustrate your efforts to maintain or improve the quality of your software.

Introducing Visual Lint Build Server

Visual Lint Build Server changes that by bringing the incremental, parallelised analysis capabilities of Visual Lint to build and continuous integration server environments.

Visual Lint Build Server works in **exactly** the same way as the interactive versions of Visual Lint, but via a command line rather than a graphical user interface.

For ease of use, the command line interface is based on that of LintProject Professional.



Industry standard code analysis tools

Visual Lint supports a variety of analysis tools including PC-lint, PC-lint Plus, CppCheck, Vera++ and cpplint.py for C/C++, FxCop for C# and FindBugs for Java. 1

Adding support for additional languages or analysis tools is usually straightforward, so please contact us if you are interested in a particular language, project type or analysis tool.

Incremental and time limited code analysis

Visual Lint Build Server supports **both full and incremental analysis**—the latter ideally suited for use within continuous integration environments such as CruiseControl.NET, Jenkins and TeamCity in which rapid builds are essential.

If analysis time is critical you can even set a time limit on each run.

Accelerated code analysis

Visual Lint Build Server automatically takes advantage of all CPU cores on the host, delivering an immediate reduction in analysis time by comparison with conventional build server integration solutions.

If you need to reduce the analysis time further, you can even **distribute** the analysis among idle machines on your network, potentially reducing analysis time by a factor of 20. ²



- Parallelised multicore analysis of C, C++ C# and Java codebases using industry standard code analysis tools
- Analyse projects for Microsoft[®] Visual Studio[®], Eclipse, CodeGear C++ and others, including embedded environments such as QNX Momentics and Texas Instruments Code Composer
- Analysis configurations automatically take project settings into account
- Optimised for continuous integration server environments
- Choose from full or incremental code analysis of complete projects, workspaces and solutions
- Set an optional time limit on incremental analysis
- Analyse your code even faster using idle machines on your network ²
- Produce customisable reports giving a summary of the analysis results
- Export analysis data in a variety of formats for subsequent analysis, review and action
- Included as an optional component in the Visual Lint installer
- Licenced per server; optional priority support subscriptions available if required.
- Ommercial analysis tools supplied separately; freeware and open source analysis tools (e.g. CppCheck) may be freely downloaded
- 2 Requires IncrediBuild XGE interfaces extension package. Please visit www.xoreax.com for details.

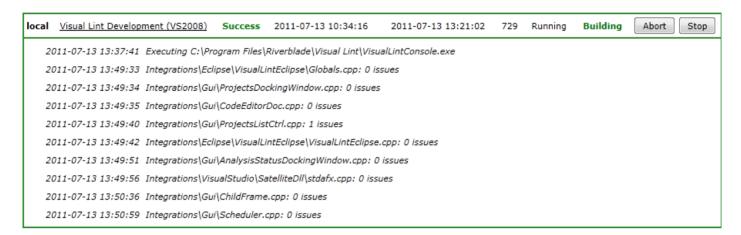


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Straightforward integration with build server environments

The command line interface of Visual Lint Build Server is based on that of LintProject Professional, and can easily be integrated into build and continuous integration server environments such as CruiseControl.NET, Jenkins or TeamCity.



Direct support for a variety of project, solution and workspace file types

Visual Lint Build Server can read project, solution and workspace files for the development environments (e.g. Microsoft® Visual Studio® and Eclipse) supported directly by Visual Lint plug-ins.

However, it can **also** read project files for environments (for example CodeGear C++, Atmel Studio or VisualDSP++) for which a Visual Lint plug-in is not currently available. Please contact us if you are interested in support for a particular project type.

Flexible output data formats

As well as generating analysis reports, Visual Lint Build Server can also export data in a variety of text, CSV, XML and user defined formats. If you need assistance exporting data in a particular format please contact us.

Make the build go red if the quality of the code drops

Visual Lint Build Server allows **conditional exit codes** to be set based on the results of the analysis. So if you need your build server to fail the build if the number of warnings exceeds a predetermined threshold, you can easily do so.

Effective code analysis

Visual Lint gives you the tools you need to use code analysis effectively within your team.

By deploying **Visual Lint Build Server** in conjunction with the interactive versions of Visual Lint, you can ensure that everybody on your team is fully aware of where the troublespots in your code are —and thus where you might need to focus your attention to ensure that the quality of your codebase meets your standards.

For full details of the capabilities of Visual Lint, please visit www.riverblade.co.uk/products/visual_lint.

About Riverblade:

Riverblade is a UK based independent software vendor founded in 2004 and specialising in code analysis tools and development environment integration.

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