

Eclipse-based Physicist Work Environment

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Eclipse is a popular, open source, development platform and application framework. It provides extensible tools and frameworks that span the complete software development lifecycle. Plugins exist for all the major parts that today make up the physicist software toolkit in ATLAS: programming environments/editors for C++ and python, browsers for CVS and SVN, networking with ssh and sftp, etc. It is therefore a natural choice for an integrated work environment. This paper shows how the ATLAS software environment and framework can be configured, debugged, build, and run with Eclipse. It also presents plugins tailored for ATLAS, which ease installation of the software, development and debugging of job configurations, and (interactive) analysis algorithms in a multi-language environment. Plugins for integrated tutorials and context-sensitive help are also provided, allowing people new to the ATLAS software to quickly get started with their analyses.

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