

# A *C* Version of the CLAS12 magnetic field package

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## **Abstract**

The standard CLAS12 magnetic field that reads and interpolates the binary field maps for the solenoid and torus was written in JAVA. The package described here reproduces the functionality in *C*. That's *C*, not *C++*,<sup>1</sup> but of course it can be used in a *C++* program. The most important feature is that it reads the same fieldmap files as the JAVA version.

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<sup>1</sup>The reason should be obvious. *C* is the most beautiful programming language ever created while, remarkably, *C++* is the most hideous. This is not a matter of opinion.