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3.1 The programming language of OpenFOAM In order to understand the way in which the OpenFOAM library works, some background knowledge of C++, the base language of OpenFOAM, is required; the necessary information will be presented in this chapter.

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OpenFOAM version 2.3.0 is a major release of OpenFOAM with numerous new features, distributed as: a packaged installation for Ubuntu Linux — the simplest installation option for OpenFOAM; a packaged installation for SuSE Linux; a packaged installation for RedHat Enterprise Linux; a source pack for compilation on other Linux distributions.

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Open FOAM

OpenFOAM represents scalars, vectors and matrices as tensor fields. A zero rank tensor is a scalar, a first rank tensor is a vector and a second rank tensor is a (3 × 3) matrix. OpenFOAM contains a C++ class library named primitive (\$FOAM_SRC/OpenFOAM/primitives/) which contains classes for the tensor mathematics.