

# Chapter 1

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### Licencing details for SuperLU

The `oomph-lib` distribution includes the double precision versions of the sparse direct linear solver SuperLU (version 3.0 of the serial version and version 2.0 of the distributed memory parallel version). Full details of the [SuperLU](#) licence may be found at

<http://crd.lbl.gov/~xiaoye/SuperLU>

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### Licencing details for METIS

The `oomph-lib` distribution includes version 4.0 of George Karypis'

[METIS](#) mesh partitioning library. Full details of the [METIS](#) licence may be found at

<http://www-users.cs.umn.edu/~karypis/metis/>

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## Licencing details for BLAS/LAPACK

The `oomph-lib` distribution includes the entire BLAS library and a few functions from LAPACK. Full licencing details for the `BLAS library` may be found at

<http://www.netlib.org/blas/>

Full licencing details for the `LIBRARY library` may be found at

<http://www.netlib.org/lapack/>

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## Licencing details for GMP

The `oomph-lib` distribution includes version 6.1.2 of the GNU Multiple Precision Arithmetic Library (GMP), <https://gmplib.org> which is released under the `GNU LGPL v3` and `GNU GPL v2` licences. Full details of the licence may be found at

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## Licencing details for CGAL

The `oomph-lib` distribution includes version 4.11 of CGAL The Computational Geometry Algorithms Library <https://www.cgal.org/> which is released under the distributed under a dual license scheme, that is under the `GPI/ LGPL` open source license, as well as under commercial licenses. Full details of the licence may be found at

<https://doc.cgal.org/latest/Manual/preliminaries.html#licenseIssues>

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## 1.1 PDF file

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