**Boundary Element Method Open Source Software in Matlab**

|  |  |
| --- | --- |
| File / Module(s) | [OkQuadrature\_tests.m](http://www.boundary-element-method.com/fortran/VG2LC_TESTS.FOR) / OkQuadrature\_tests |
| Title | A set of tests to verify the geometrical input to codes for computing the discrete operators in the boundary element method. |
| Version(Date) and History | **1.** (September 2015). |
| Description |  A description of the tests is illustrated on the spreadsheet [OkQuadrature.xlsm](http://www.boundary-element-method.com/Excel_VBA/OkGeometry2lc.xlsm). |
|  Interface | Sub OkQuadrature\_tests |
| Web source of code. | [www.boundary-element-method.com/mfiles/OkQuadrature\_tests.m](http://www.boundary-element-method.com/fortran/VG2LC_TESTS.FOR) |
| Web source of this guide | <http://www.boundary-element-method.com/mfiles/OkQuadrature_tests_m.pdf> |
| Web source of the algorithm | Not applicable |
| Dependent routines | Not Applicable |
| Test problems or modules tested | [http://www.boundary-element-method.com/mfiles/OkQuadrature.m](http://www.boundary-element-method.com/fortran/VG2LC.FOR) |
| Licence | This is ‘open source’; the software may be used and applied within other systems as long as its provenance is appropriately acknowledged. See the [GNU Licence](http://www.gnu.org/licenses/lgpl.txt) for more information or contact webmaster@boundary-element-method.com . |
| Codes that this may be used alongside this one | Not applicable |
| Similar codes that may be of interest | A similar Fortran code is available:<http://www.boundary-element-method.com/fortran/VQUAD_TESTS.FOR>A similar code in Excel VBA is available: [www.boundary-element-method.com/Excel\_VBA/OkQuadrature.xlsm](http://www.boundary-element-method.com/Excel_VBA/OkGeometry2lc.xlsm) |
| Applications | Not applicable |
| Author | [Stephen Kirkup](https://www.researchgate.net/profile/Stephen_Kirkup) |
| References | 1. [Introduction to Matlab/Freemat/Octave/Scilab](http://www.freemat.info)2[. Fortran Tutorial](http://www.computing.me.uk/fortran77/index.htm)3. [www.boundary-element-method.com](http://www.boundary-element-method.com)4. [Numerical Integration (Quadrature)](http://www.numerical-methods.com/numint.htm) |