

GR1 Computational requirements

GR1.1 Language bindings

ESMF software shall support the following language bindings:

GR1.1.1 Fortran 90 interface

Priority: 1.

Source: All codes except GFDL-HIM require F90 interfaces.

Status: Approved-1.

Verification: Interface inspection (verification checklist will include array dimension information and optional argument handling).

GR1.1.2 C++ interface

Priority: 1.

Source: GFDL-HIM.

Status: Approved-1.

Verification: Interface inspection (verification checklist will include array dimension information and optional argument handling).

Notes: Handling of Try/Catch exception handling and error signal propagation over the C/C++ Fortran boundary will need to be addressed in the preliminary design and implementation prototyping.