

Fortran Summary

July 2, 2008

Goals

- Upgrade Fortran bindings to '03 or '08
 - Fortran '08 compilers will not be available for years
- Solve the “function explosion” in the F90 bindings
 - Use equivalent of C (void*) for choice buffers
 - Dithering over specific syntax
- Use some Fortran-natural constructs
 - Similar to C++ bindings
 - Avoid MPI_STATUS_IGNORE, etc.

Goals

- Try to have compiler provide most of the MPI Fortran layer
 - Looks like that's not going to happen 😞
- Trying to fix aliasing issues
 - Spent bulk of time this wee on this issue
- Craig is working on sample implementation in Open MPI
 - Hopefully will be useful to others