

Structure of MPI-3

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Current State of MPI-3 proposals

- Many working groups have several proposal being discussed ==> standard can get large
 - Many of these are useful
 - Some of these are aimed at a specific user community
- What should the standard be ?
 - A repository for useful communications and process-control API's (sort of like the POSIX model)
 - Focus on a narrow support

Current Implementation Issues

- Memory foot print can be an issues
- Performance is an issue
 - Can we provide a way to highly optimized specialized libraries

User perspective

- Just want to use the API and have it work
- No surprises

Should MPI-3 have A layered Design ?

- Grouped by functionality
 - Fault Tolerance
 - Data piggybacking
 - Topological collectives
 - Dynamic Process control
 - ..
- Do we want a hierarchical structure
 - Shell like ?
- ?