

MRNet Startup Issues

- Attendees: Dorian Arnold, Bronis de Supinski, Jeff Hollingsworth, Madhavi Krishnan, Matt Legendre, Bart Miller
- Can be implemented at different SW stack levels
 - Best level is probably resource manager but...
 - How do we get the RM community to buy-in?
 - STAT (over MRNet) as motivating use case
- Target architectures: BG, XT, clusters
- Refactoring MRNet or LaunchMon or both?

Bootstrapping abstractions

- Ratify simple abstractions
 - Low-level primitives for process launch and information dissemination
- Identify deficiencies in LaunchMON API
 - Modify/extend API as necessary...
- Encapsulate in lightweight library/component
 - Support for pluggable mechanisms (launchMON/slurm/rsh/...)
- Intelligent topology configuration?
 - Should not require user interaction
 - “Smart topology” component could be built on top of bootstrapping
- Follow-ups:
 - UNM (Dorian) to propose low-level API and semantics
 - Rationalize among core group: Dong Ahn, Mike Brim, Greg Lee and Phil Roth