

Old CCSM-on-BG-L work

Status of CCSM on BG/L. Effort now focuses on BG/P and CCSM4alpha

CCSM3 concurrent

- CCSM with full models (single executable)
 - build supported on frost and suny
 - run completed T31_gx3v5 compset B on 32 procs with output.

- CCSM with dead models (single executable)
 - Works for many cases.
 - See [CCSM with dead models](#)
 - See [cpl_map_mod problems](#)

- CCSM with data models (single executable)
 - not attempted

CCSM4 (sequential)

- with dead models
 - Using 32 procs and all models with identical resolution
 - FV2x2.5: runs
 - T62: decomposition error
 - T85: runs but "end of main loop" message doesn't appear in output
 - FV1x1125: as for T85.
 - T170: as for T85.
- with full models
 - high res simulation (0.5 atmosphere and 0.1 ocean) runs on BG/L at SUNY but has no output and crashes after a couple of days (sea ice error)

Component models (as standalone)

- POP2: Compiles and runs. JohnD has version with some mods for BlueGene.
- CLM:
- CSIM:
- CAM:
 - Current Work
 - Latest CAM compiles and runs on Argonne BlueGene
 - Eulerian T42 ran ok up to 64 proc limit both co/vn
 - Eulerian T85 ran ok up to 128 proc limit co; vn has memory problems
 - FV 1x1.25: CO runs on 32,64,128,256, and 480
 - FV 1x1.25: all VN runs (8-128) fails. Allocation errors.
 - Old Work
 - [Sidd Gosh Notes](#) Used 3.3.31. T31 and T42 ran with little modifications in co and vn mode. 1x1.25 ran fine in co mode.
 - Sidd's and Yu Heng's parallel I/O mods will not be ported. Will wait for PIO instead.
 - pilgrim memory fixed as of 3.3.35.

Results

CCSM with dead models:

- [2/21/07](#)
- [5-16-07](#)

[cpl_map_mod problems](#) a history of what we had to do with cpl_map_mod