FV3GFS Development Topics

NEMS

- dycore -- CAP
- physics – NUOPC Physics Driver v3.0

Running Phase-II FV3GFS on WCOSS CRAY

Utilities , pre and post-processing

Data Assimlation

Workflow

Verification

Running Phase-II FV3GFS on WCOSS CRAY

- 32-bit vs 64 bit
- Hydro vs non-hydro
- Timing test, optimization
- Rewrite makefile
- Documentation of parameters and options
- F00 output
- missing output variables
- Output sfc
- Lat-lon gird and Gaussian grid to feed into POST

Utilities , pre and post-processing

- Chgres – update to q3fy17 version; remove sigio options etc
- Change resolution from one FV3 grid to another FV3 grid
- Redgriding :   GFDL fregrid , ESMF remapping ?
- POST: handling lat-lon NEMSIO input

Workflow

- Scripts – Korn shell, vstcsh shell, python vs unix shell
- Switch to use JJOBS
- Super structure