



GOURDON/GEOM Parallelization Progress and Outlook

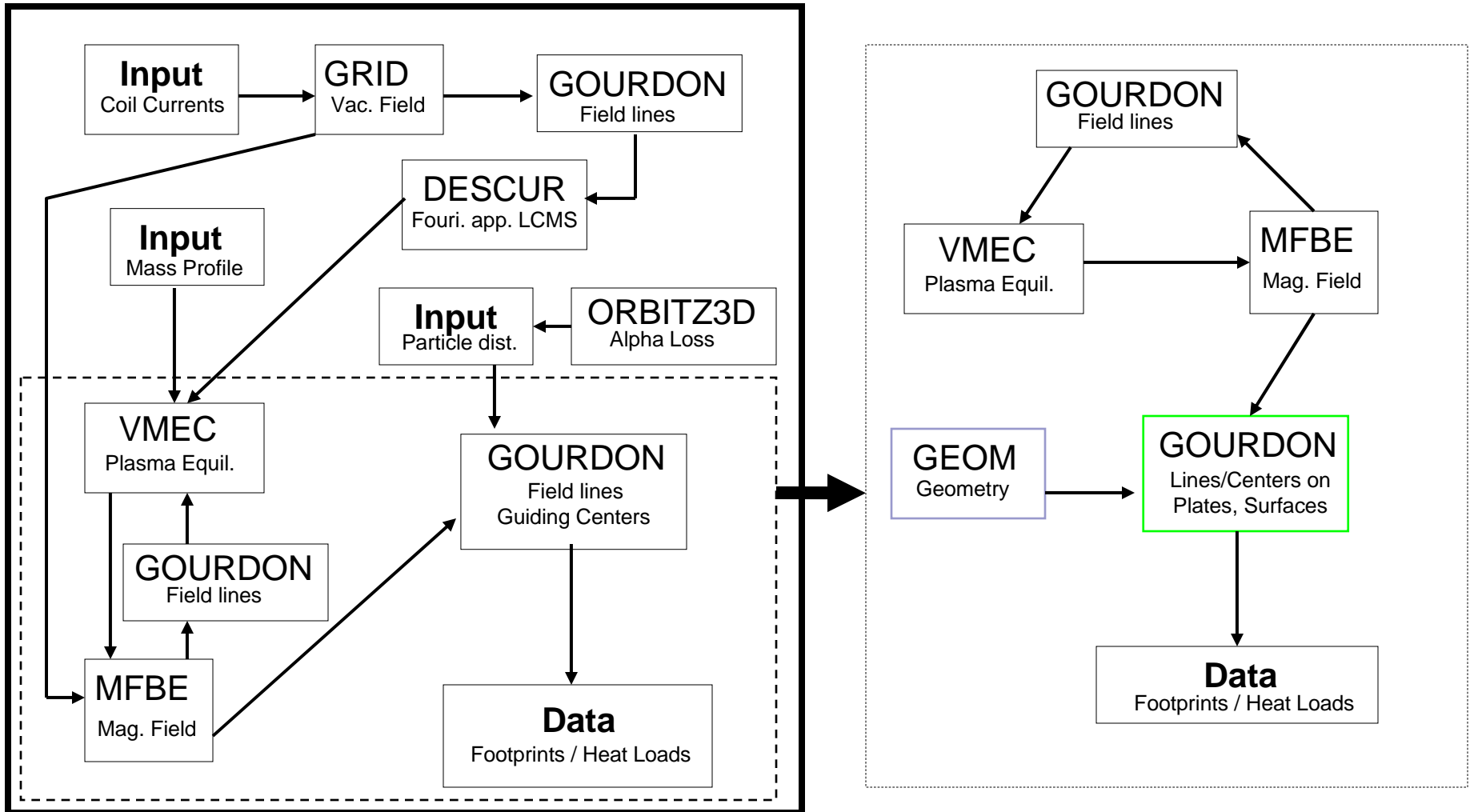
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Code System





New GOURDON

- Parallelization (mostly) complete
 - Compare important quantities with serial
 - Ran 100 lines
- Ability to trace guiding centers
 - Important if Analytic Heat Load model fails

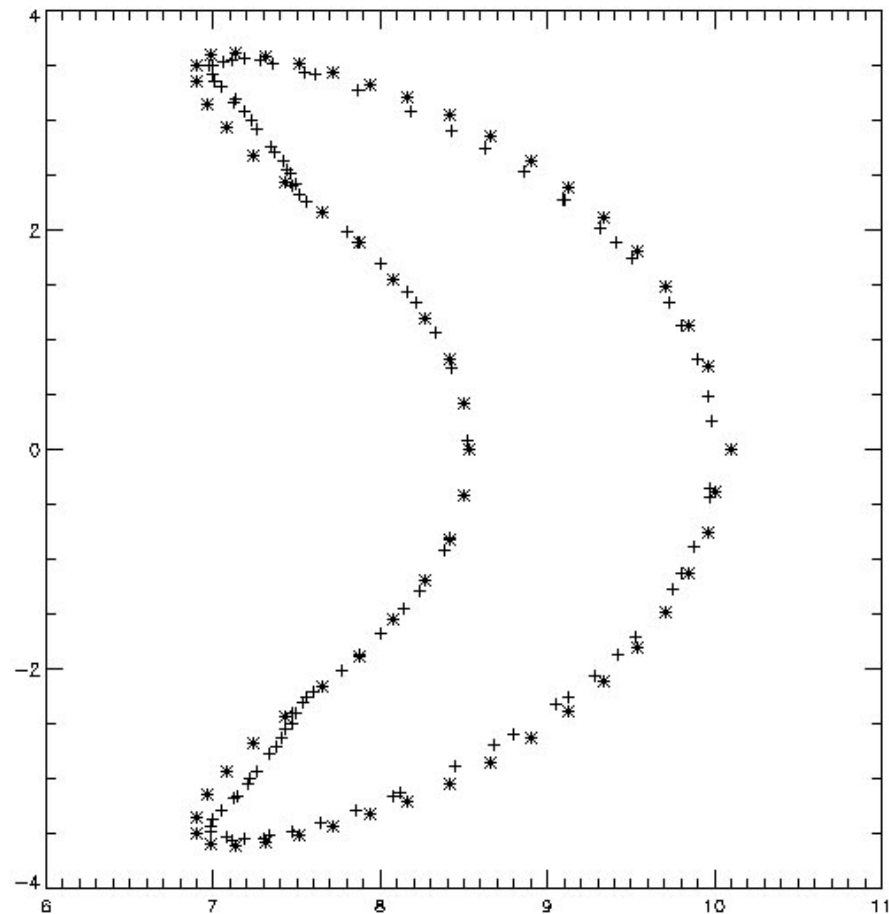
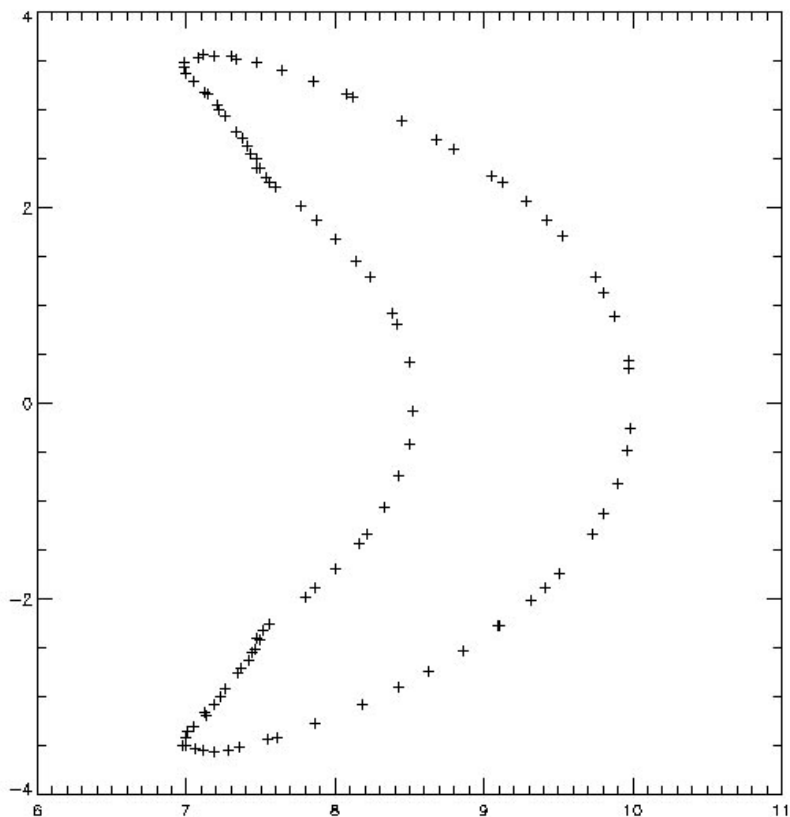
$$T_{et} \propto L_c^{-4/7}$$

- Calculate intersection points
 - Divertor Plates, FW, LCMS



Benmarking GOURDON

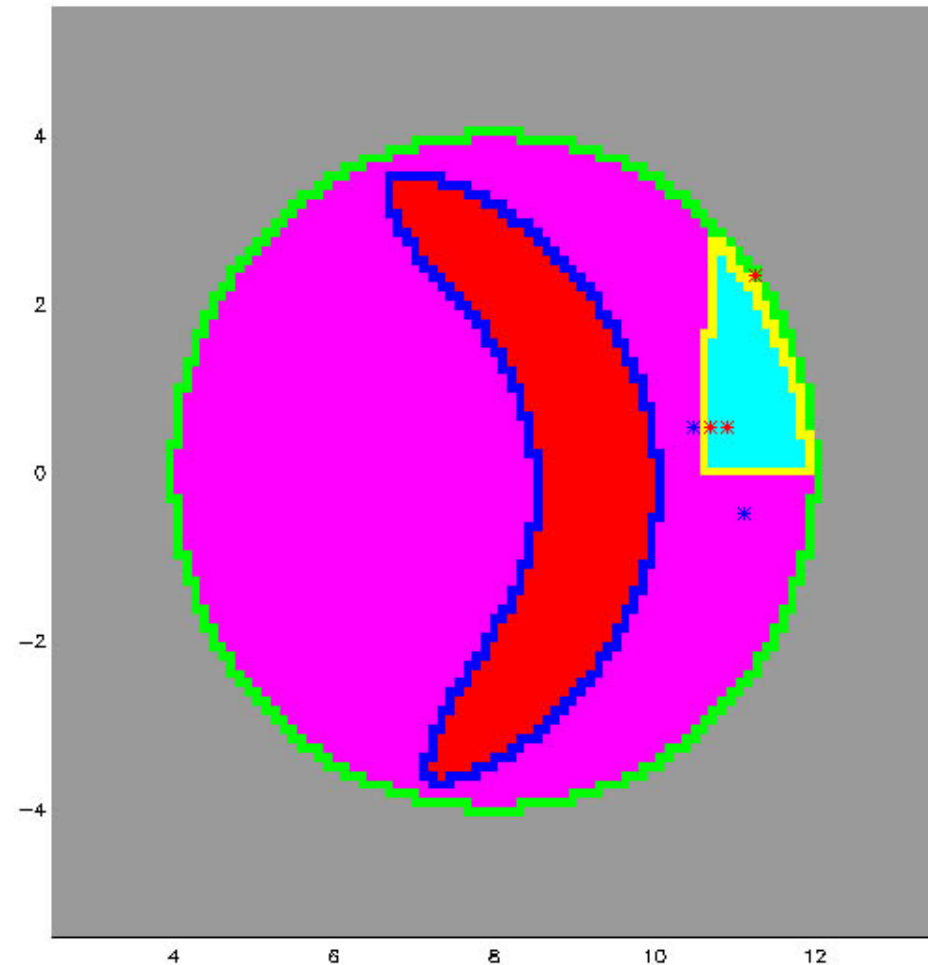
- Code designed for W7-X
 - Match LCMS of VMEC?





Plate/FW Intersection

- Check Intersection with Plates/FW
- Distances easily calculated





Summary and Future

- New GOURDON is Ready
 - LCMSs agree(?), Plate/FW Inters. accurate
- Heatloads/Peaking factors from Tracing
 - Understand/implement averaging process
 - Need to use guiding centers?
- Full Test Case
 - Need LCMS, FW, Mag Field
 - Probe Island Structure, begin divertor design