TIEGCM Code Structure Contents

•TIEGCM Main

•Init Model initialization

•Advance Model in time

• <u>Dynamics</u> Dynamics and Chemistry

Aurora Aurora Parameterization

• Oplus O+

• Minor Species Composition

•DUV Neutral Winds

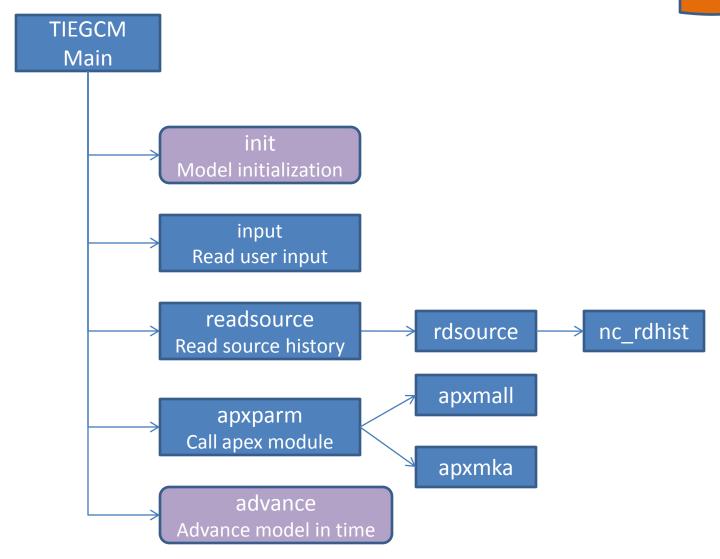
•<u>DT</u> Neutral Temperature

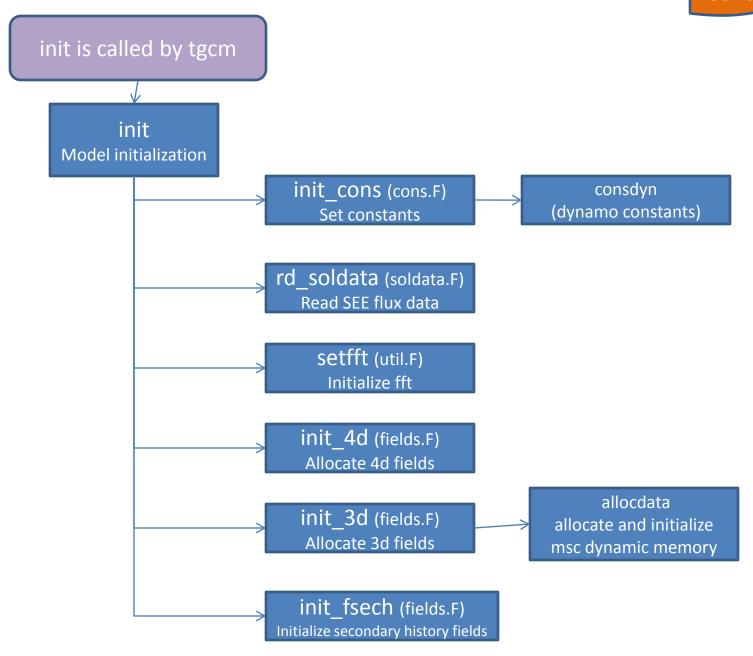
• Major Species Composition

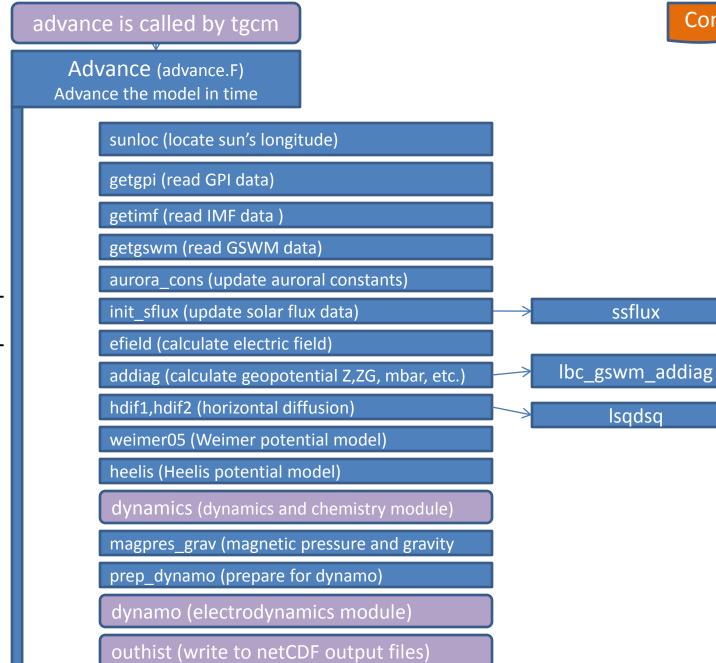
•<u>Dynamo</u> Electrodynamics

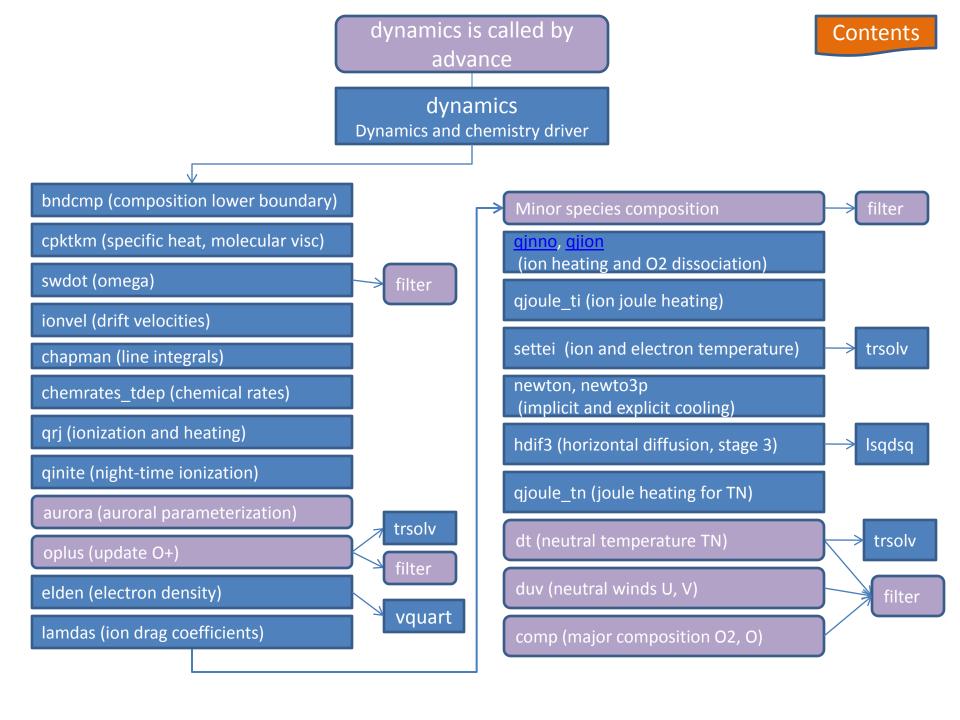
• Outhist Write to output files

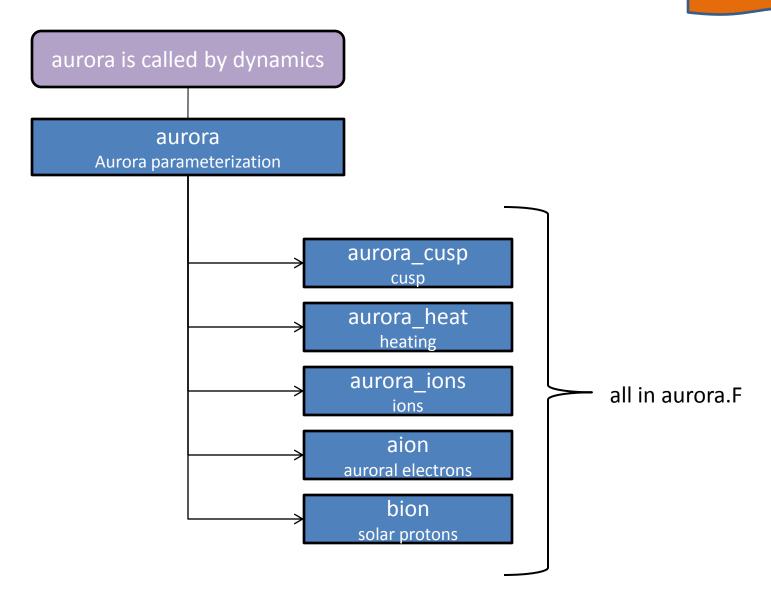
•<u>Filter</u> Longitudinal filtering

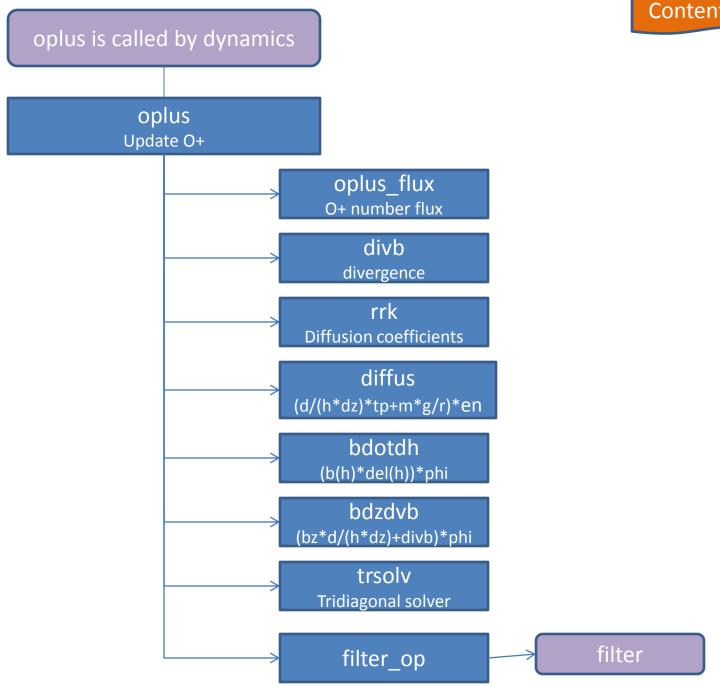


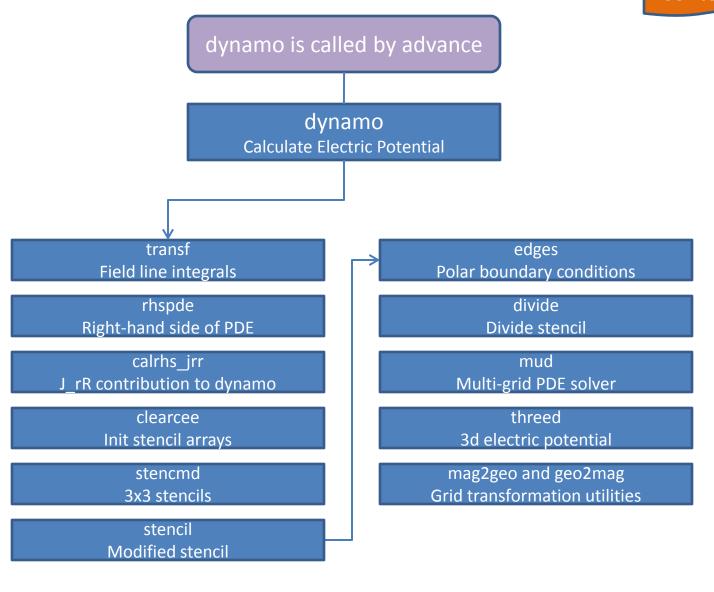


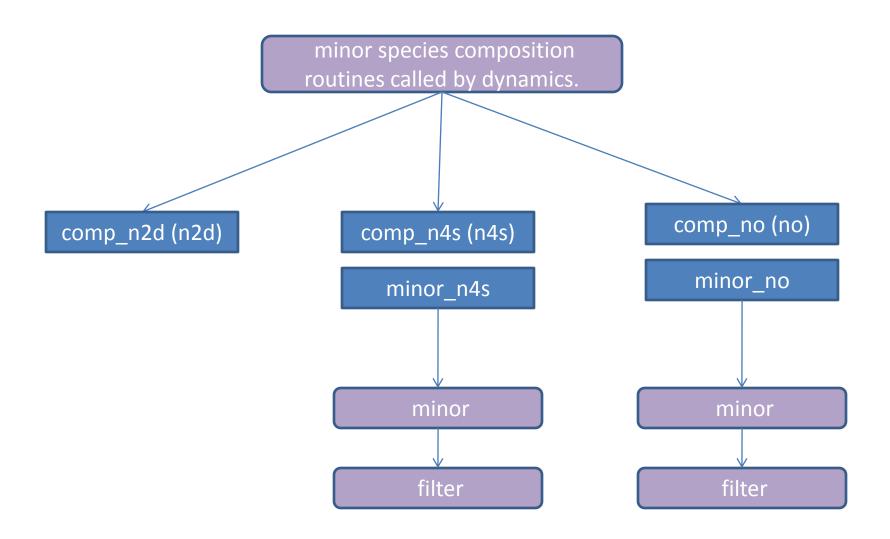


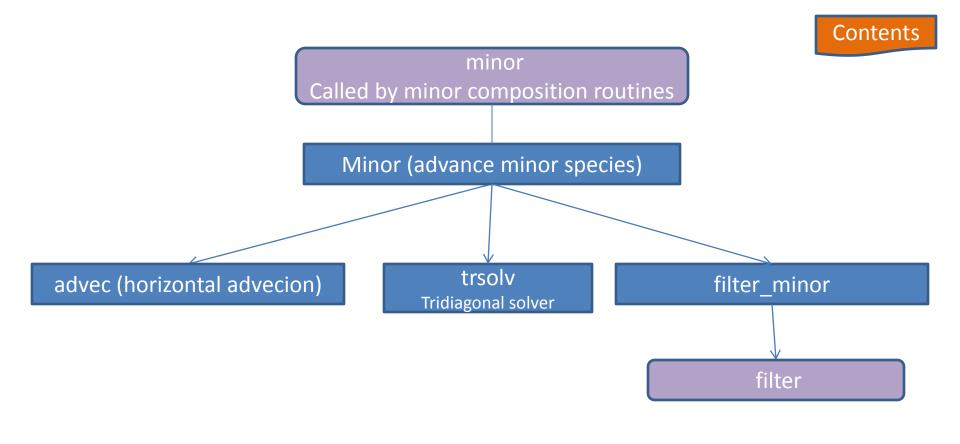


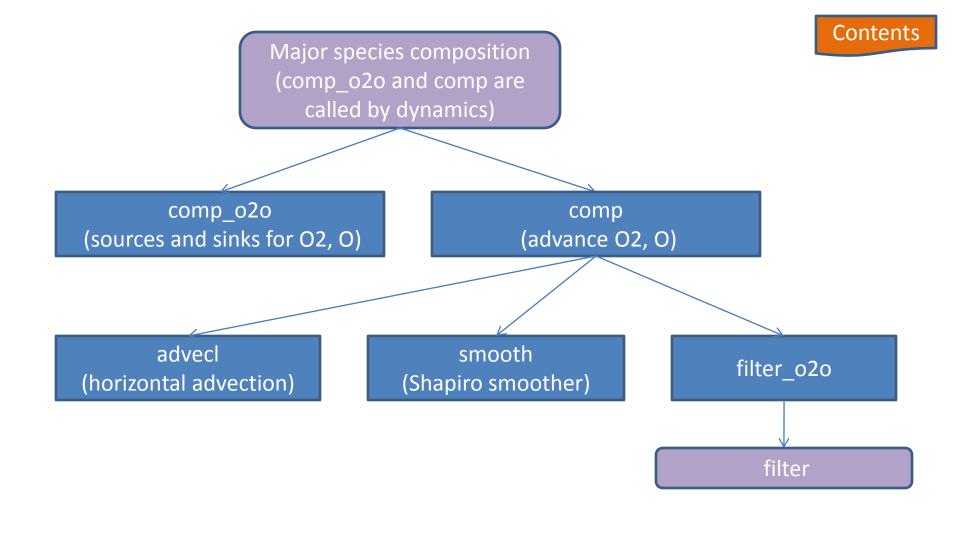


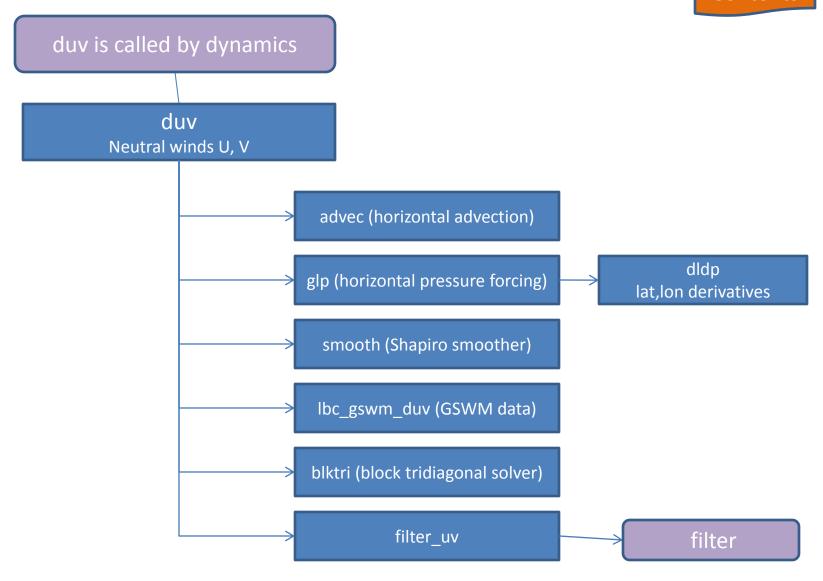


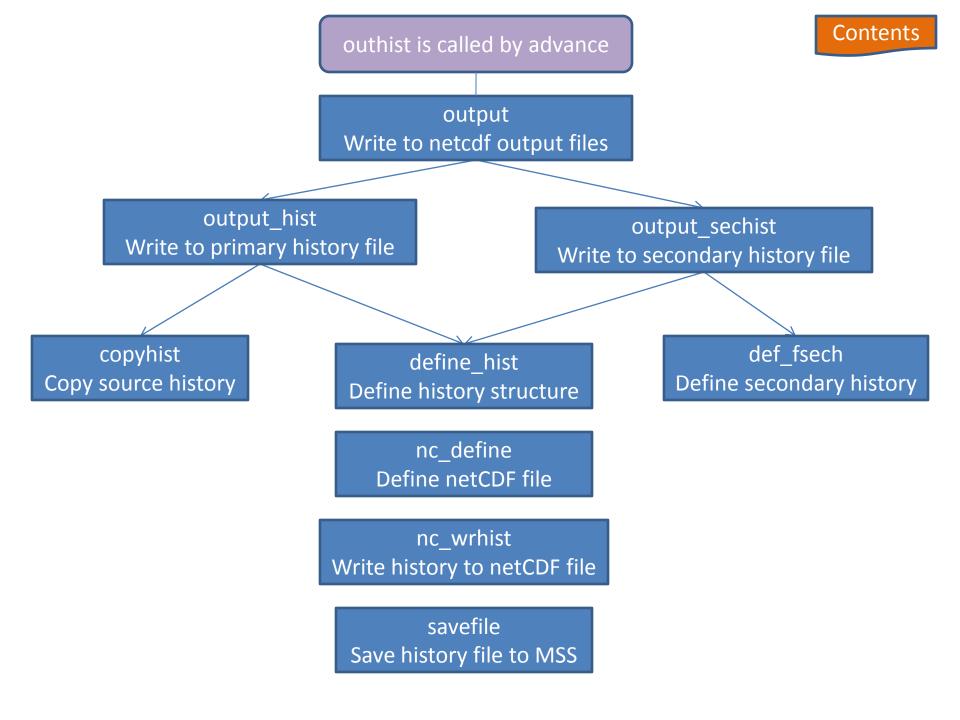












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filter: Filter routines are called by:
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- •<u>comp</u> Major composition
- •<u>dt</u> Neutral temperature
- •<u>duv</u> Neutral winds
- •minor Minor composition
- •oplus O+
- swdot Vertical motion

filter

(Called by dt, duv, swdot, oplus)

filter2

(Called by comp, minor, oplus)

fftrans (util.F)

fft999

Fourier transform

