

Call to discuss trial tiling implementation

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- DC to revise some aspects of the tiling implementation
 - Names of the tiling decomposition variables (*jpnitile*, *jpnjtile*, *jpnijtile* are not strictly parameters)
 - Description/names of the namelist parameters (it is not clear that *nn_tile_i* and *nn_tile_j* are tile lengths, rather than the number of tiles)
 - Behaviour of *dom_tile* (this should access and return the domain indices from a global array rather than calculate them every call)
 - Include *nn_hls* in the calculation of domain indices (currently this assumes *nn_hls* = 1)
- SM will commit the latest developments in the extended haloes branch and circulate an email
- IE to draft some thoughts on how changes to *do_loop_substitute* in the extended haloes branch might be simplified
- DC will proceed with the tiling development based on the extended haloes branch, focussing on
 - A serial implementation (i.e. not using OpenMP)
 - Using *nn_hls* = 1
 - Scientific options that do not require calls to *lbc_ink*, e.g. Laplacian diffusion, flux-form second order advection
 - Code that does not require global operations e.g. *mpp_sum*
- DC, SM and IE to keep in contact regarding tiling & extended haloes developments
- DC to further consider issues with code that is nontrivial to tile
 - Diagnostics (DIA): Which routines present the most difficulty? Can any work (e.g. *dia_ptr* integrals) be offloaded to XIOS?
 - One-time operations (*mpp_sum*, *lbc_ink*, etc): More formal solutions instead of using IF statements around calls