

Implicit
- Multigrid components. "Brys for a my pails close together". -> Restri operator -> Pollongch operatr -> Smoother on the levels -> has some sported as an update. $U_f = U_f +$ TS Ref Sec = just applyes Geometic coarsers, neans re get a log tactor. Can estre on O(10°) kores

How to exploit this in our datastructures?
FD grids: mly local overlap.
=>> Domain de composition
e global danai
Chop in N pieces
Could send/receive message for each rendre part. Suppose we seed a such messages
=> model says Tm = n(X+B1)

lustrad fulk synchronaus

-> add a "halo" or "ghost repri

to our local danair. Connunicati cost is NOW

Tholo = K+ NB For not nx.>x. All processes collectively decide + do update. es communication and b fill in gaps. -> local compute.

Next week: sne the on Scaling laits for 90E solvers

Scaling Limits for PDE-Based Simulation

=> will lik from webste.