~~Level 1 tasks non in context, e.g. "chol" Aii ???~~

partition nodes fractional {0.8,0.2}

processor group structure

~~Tasks : SYRK~~

~~MatAsm refactor~~

~~Connecting Contexts MatAsm , Cholesky~~

~~Cholesky ctor ( M )~~

~~Glb-> Connect ( MA , C~~ )

Message Contents

General tasks

~~Task creation in ductteip engine~~

Propagation tasks

Split/combine context string/ids

Pack /Unpack

Data

Listener

~~Data Handles~~

~~Ictx ctor register itself to glb => new id~~

~~Ictx ask for new handle from glb for its data~~

~~glbctx.craetedata()~~

~~Ictx dtor data or not ?~~

Context fan in/out > 1 ?

Complete Framework:

DuctTeip/engine

Data

Check sts, create , clean,find by sts, populate

Listener

CheckSts,clean,findBysts,senddata ,dta\_recvd

Task

Add,canRun,checksts,data\_recvd,findin list?,match axs, run,

Upgrade data

MainObject

Check : Ack recv,data recv, lsnr,outbox,scheduler,task

New, can terminate,

Extern interface: create data,axs, task

Init: for all dl in DynLib do Init(dl);

Run:

Check tasks for run

Check mail box

AddTask

Pack /Unpack

Kernel / run tasks

MailBox

IComm object

Get/set tag

Pack unpack

Data Task Listener Propagate

Send IComm, dest

Received Buffer,source,tag

Check outbox inbox

Network

MPI

Kernels

Link to Shared Mem Libraries:

SuperGlue

BLAS,LAPACK

Fortran interface

dynamic library load

Dynamic load balancing

Iterative tasks

Fault tolerance

Sparse Matrix

Recursive Tasks

Dynamic Task Generation