

Closing Remarks



Twelfth DOE ACTS Collection Workshop *Scalable and Robust Computational Tools for High-End Computing*



ACTS Collection Reviewed This Week



Numerical Tools

SuperLU

ScaLAPACK

SLEPC

Hypre

PETSc

Trilinos

Overture

SUNDIALS

TAO

HPC Development and Execution Support Tools

Global Arrays

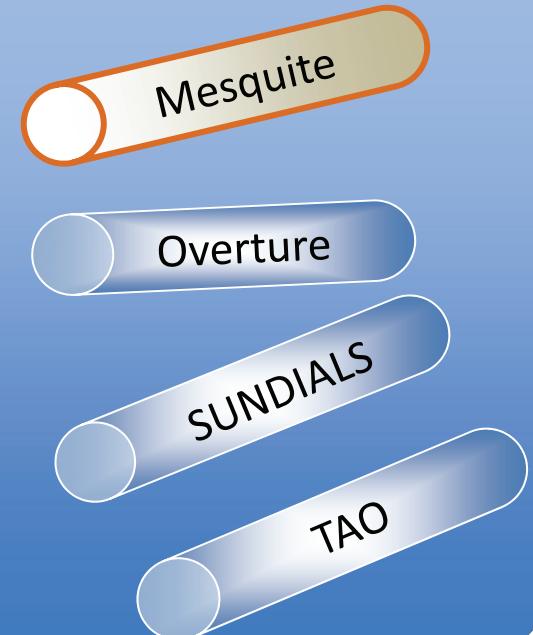
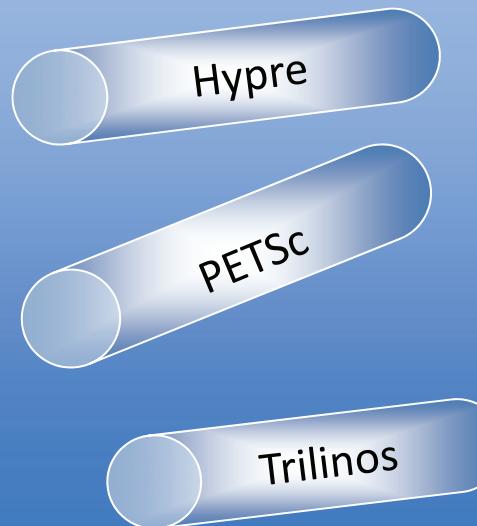
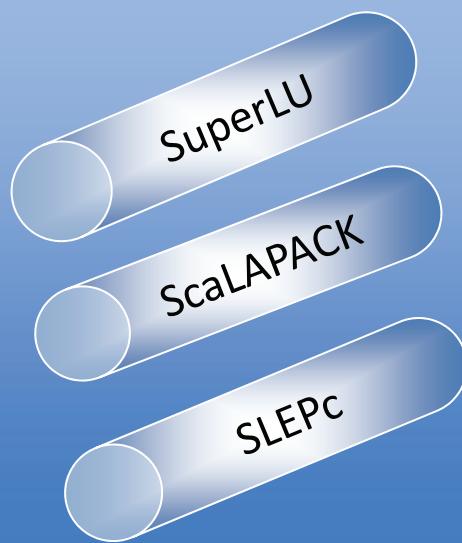
Zoltan

TAU

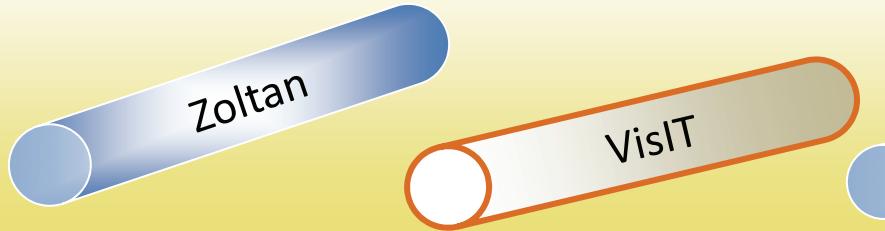
ACTS Collection Reviewed This Week



Numerical Tools



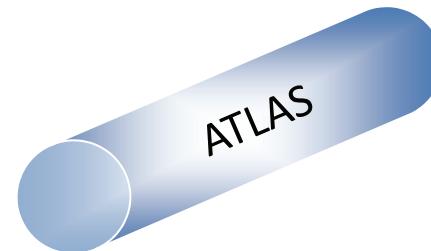
HPC Development and Execution Support Tools



Pre-Installation Check List



- Parallel Environment
 - MPI
- Numerical Tools
 - BLAS – LAPACK
 - ATLAS
 - GotoBLAS
<http://www.tacc.utexas.edu/tacc-projects/gotoblas2>
 - MAGMA
<http://icl.cs.utk.edu/magma/>
 - Commercial or Vendor provided libraries
mkl, acml, essl, pessl, scilib, etc. . .
- Python
- CMAKE (Trilinos)



References

- ACTS Information Center
`acts.nersc.gov`
- ACTS Workshop
`acts.nersc.gov/events/Workshop2011`
- L.A. Drummond, O. Marques: *An Overview of the Advanced Computational Software (ACTS) Collection.* ACM Transactions on Mathematical Software, 31:282-301, 2002

NERSC

- NERSC (nersc.gov)
- Training accounts will be open for 1-month
 - mag_acts will go away
 - read system page for other options
- Start-up Accounts

www.nersc.gov/users/accounts/allocations/first-allocation

Feedback

- Support: acts-support@nersc.gov
- News: acts-news@nersc.gov
- Please fill out survey:
acts.nersc.gov/events/Workshop2011/Surveyform.html