



Current Products

TotalView Debugger

- Supports parallel environments
- Standalone X11/Motif/Qt application
- Wide platform/compiler/MPI compatibility
- Memory debugging integration
- Scalability

MemoryScape Memory Debugger

- Supports parallel environments
- Standalone X11/Qt application
- "Inductive interface" for memory debugging tasks

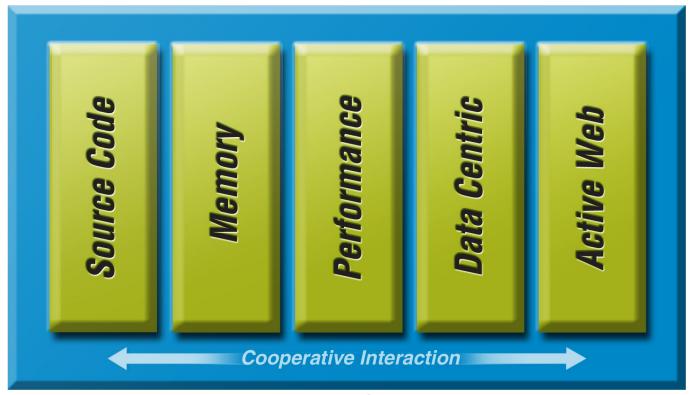


Why are we here?

- Common interests in providing software tools for parallel environments.
 - Observe, listen, learn, and see what we can do to integrate our tools or contribute to PTP.
- Interested in targeting Eclipse as an IDE and a platform for future tools
 - TotalView + Eclipse plugin
 - launch the TotalView debugger on a project.
 - http://www.totalviewtech.com/download.htm
 - A "non-GDB" debugger back-end?
- Looking forward to the future
 - Will Eclipse PTP be the predominate IDE for parallel application development?
- TotalView Workbench



TOTALVIEW TECHNOLOGIES MULTI-CORE DEBUGGING FRAMEWORK



- The TotalView Technologies Solution: A new approach to debugging for the next wave of HPC development
- Defines five core technologies required to develop the next generation of multi-threaded, multi-process applications
- Comprehensive, integrated software development tools to improve development productivity and quality



Challenges

- TotalView "momentum"
 - established user base
 - core debugger is 20+ years old
 - non-Java engineering staff
 - engineering resources
- Products for non-HPC customers
- Need to retain the ability to standalone
 - products
 - identity
- SCALABILITY
 - what is debugging at the 10,000 process level?