

# Module 8: Other Tools and Wrap-up

## ✦ Objective

- ✦ How to find more information on PTP
- ✦ Learn about other tools related to PTP
- ✦ See PTP upcoming features

## ✦ Contents

- ✦ Links to other tools, including performance tools
- ✦ Planned features for new versions of PTP
- ✦ Additional documentation
- ✦ How to get involved



# NCSA HPC Workbench

- ★ Tools for NCSA Blue Waters
  - ★ <http://www.ncsa.illinois.edu/BlueWaters/>
  - ★ Sustained Petaflop system
- ★ Based on Eclipse and PTP
- ★ Includes some related tools
  - ★ Performance tools
  - ★ Scalable debugger
  - ★ Workflow tools  
(<https://wiki.ncsa.uiuc.edu/display/MRDPUB/MRD+Public+Space+Home+Page>)
- ★ Part of the enhanced computational environment described at:  
<http://www.ncsa.illinois.edu/BlueWaters/ece.html>

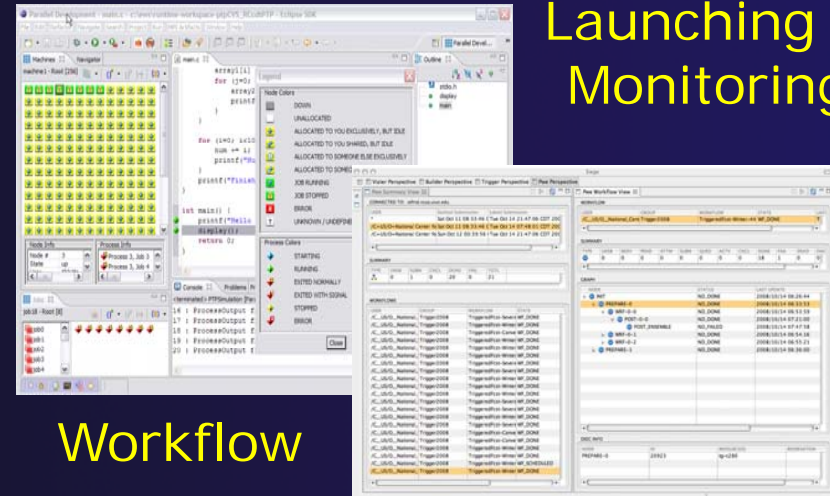
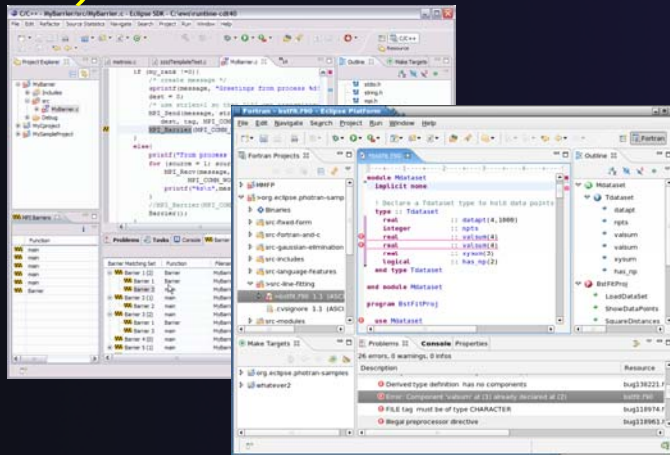


Coding & Analysis (CDT, PLDT, Photran)

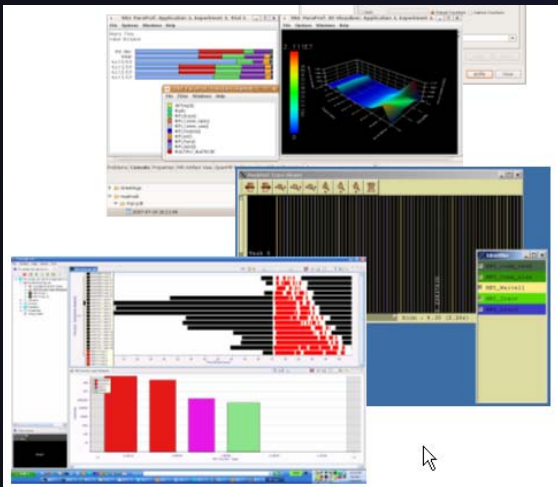
# NCSA HPC Workbench

PTP

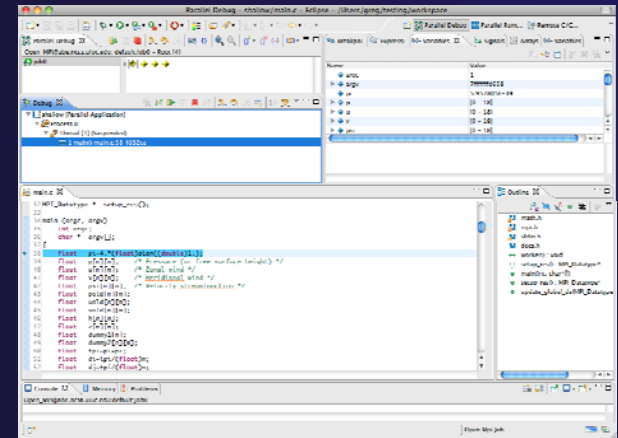
Launching & Monitoring



Workflow



Performance Tuning (HPC toolkit, HPCS toolkit, RENCI, ...)



Scalable Debugger

# Planned Future Work

- ★ Remote development improvements
  - ★ Photran
- ★ Performance Tool Integration improvements
- ★ Enhancements to the debugger
  - ★ Stability enhancements
  - ★ Transition to Scalable Communication Infrastructure (SCI)
- ★ Scalability improvements
  - ★ UI to support 1M processes
  - ★ Optimized communication protocol
  - ★ Very large application support
- ★ Your suggestions here...

# Useful Eclipse Tools

- ✦ Linux Tools (autotools, valgrind, Oprofile, Gprof)
  - ✦ <http://eclipse.org/linuxtools>
- ✦ Python
  - ✦ <http://pydev.org>
- ✦ Ruby
  - ✦ <http://www.apтана.com/products/radrails>
- ✦ Perl
  - ✦ <http://www.epic-ide.org>
- ✦ Git
  - ✦ <http://www.eclipse.org/egit>
- ✦ VI bindings
  - ✦ Vrapper (open source) - <http://vrappер.sourceforge.net>
  - ✦ viPlugin (commercial) - <http://www.viplugin.com>

# Online Information

- ✦ Information about PTP
  - ✦ Main web site for downloads, documentation, etc.
    - ✦ <http://eclipse.org/ptp>
  - ✦ Developers' (*and users*) wiki for designs, planning, meetings, etc.
    - ✦ <http://wiki.eclipse.org/PTP>
  - ✦ Articles and other documents
    - ✦ <http://wiki.eclipse.org/PTP/articles>
- ✦ Information about Photran
  - ✦ Main web site for downloads, documentation, etc.
    - ✦ <http://eclipse.org/photran>
  - ✦ User's manuals
    - ✦ <http://wiki.eclipse.org/PTP/photran/documentation>

# Mailing Lists

- ★ PTP Mailing lists
  - ★ Major announcements (new releases, etc.) - low volume
    - ★ <http://dev.eclipse.org/mailman/listinfo/ptp-announce>
  - ★ User discussion and queries - medium volume
    - ★ <http://dev.eclipse.org/mailman/listinfo/ptp-user>
  - ★ Developer discussions - high volume
    - ★ <http://dev.eclipse.org/mailman/listinfo/ptp-dev>
- ★ Photran Mailing lists
  - ★ User discussion and queries
    - ★ <http://dev.eclipse.org/mailman/listinfo/photran>
  - ★ Developer discussions –
    - ★ <http://dev.eclipse.org/mailman/listinfo/photran-dev>



# Getting Involved

- ★ See <http://eclipse.org/ptp>
- ★ Join the mailing lists
- ★ Attend the monthly user calls
  - ★ 4<sup>th</sup> Wednesday of each month, 1PM CDT
  - ★ [http://wiki.eclipse.org/PTP/PTP\\_User\\_Meetings](http://wiki.eclipse.org/PTP/PTP_User_Meetings)
  - ★ (join the PTP-user mail list for notifications)
- ★ Read the developer documentation on the wiki
- ★ Attend the monthly developer meetings
  - ★ Teleconference Monthly
  - ★ Each second Tuesday, 1:00 pm ET
  - ★ Details on the PTP wiki



# PTP Tutorial Feedback

- ★ Please complete feedback form
- ★ Your feedback is valuable!

Thanks for attending  
We hope you found it useful