Valgrind Integration in Eclipse

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The Linux Tools Project

- http://www.eclipse.org/linuxtools/
- Gcov/Gprof, Oprofile, Perf, Valgrind, SystemTap, LTTng, RPM/yum interaction, Changelog, Building Eclipse
- About 15 contributors per year, over last 2 years
Memcheck

- Problems reported as annotations on source code
- Potential for quick fixes (resolve the problem)
Massif

- Chart showing heap usage

![Chart showing heap usage](chart.png)
Helgrind

- Reports synchronization / data race problems
- Source code annotations
Remote Targets

- Project is compiled/run on target host
Improvements

• Introduce more quick fixes (Memcheck, Helgrind)
• Make Remote Profiling Easier
• Keep up to date with useful Valgrind features
• Valgrind can be (understandably) slow with memcheck
Questions

- Eclipse IDE C/C++: http://www.eclipse.org/downloads/
- CDT: http://www.eclipse.org/cdt/
- PTP: https://www.eclipse.org/ptp/