

Performance Co-Pilot (PCP)

Nathan Scott

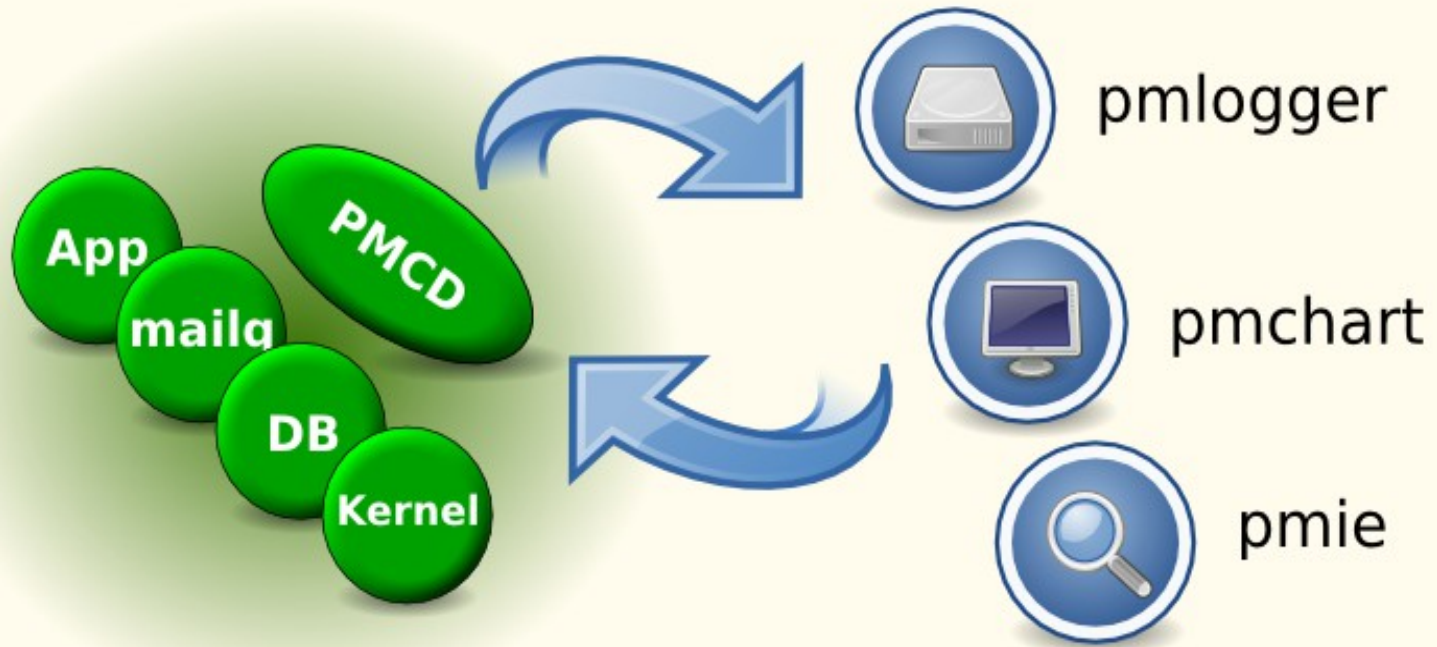


Overview

- What is PCP?
 - **Toolkit** for system-level performance analysis
 - Open source project
 - Live and historical
 - Extensible (monitors, collectors)
 - Distributed



Architecture



Data Model

- **Metrics**

- Come from one *source* (host/archive)
- Sources can be queried at any interval by any tool
- Hierarchical names
- Single valued or set-valued ("instance domain")
- Metadata
 - Data type (int, double, ...)
 - Semantics (units, scale, ...)
 - InDom



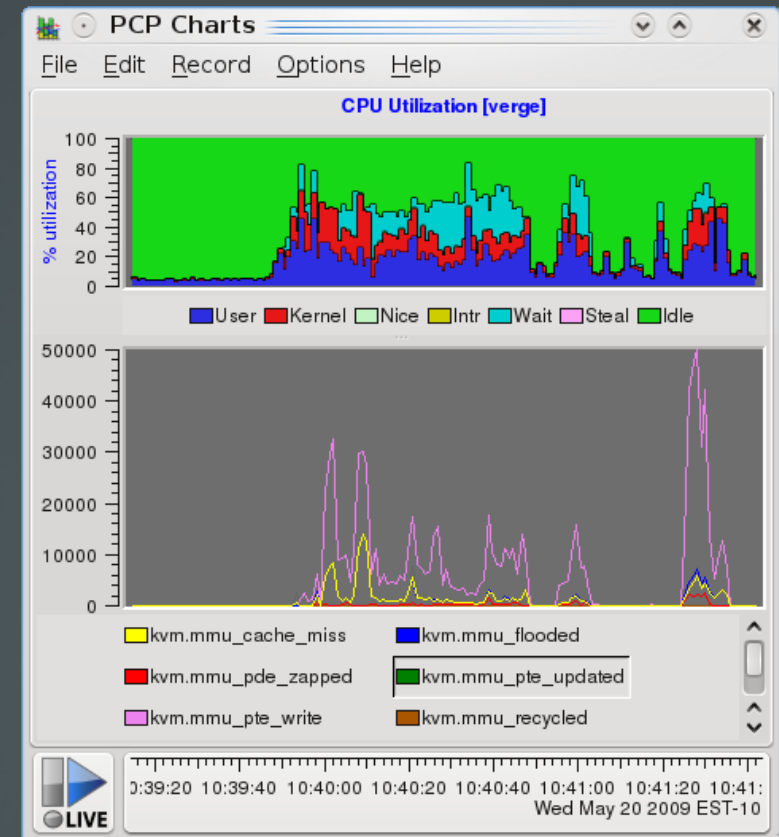
Toolkit Approach

- Monitors

- Lightweight probes (pminfo/pmprobe)
- Reporting (pmlogsummary/pmdumptext/pmstat)
- Mining and alerting (pmie)
- GUI (pmchart/pmtime)

- Collectors

- pmcd & pmdas
 - Kernel, DB, ...
 - Apps (MMV/...)
 - Apache, Samba, ES, ...



Further Information

- Web: <http://oss.sgi.com/projects/pcp/>
- IRC: freenode.net #pcp
- Mail: pcp@oss.sgi.com

- Related projects:
 - <http://code.google.com/p/parfait/>
 - <http://gitorious.org/bubbles/>

