Synoptic: Summarizing System Logs

1. Mine temporal log invariants
2. Refine the initial partitioning until all invariants satisfied
3. Coarsen the graph without unsatisfying any invariants

Synoptic log summaries
- concise
- accurate
- useful

Manual log inspection is tedious and error-prone

Peterson Algorithm

Reverse-Traceroute User Study

Performance
- More accurate than coarsening without invariants (but slower)
- Faster than coarsening with invariants

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http://code.google.com/p/synoptic/