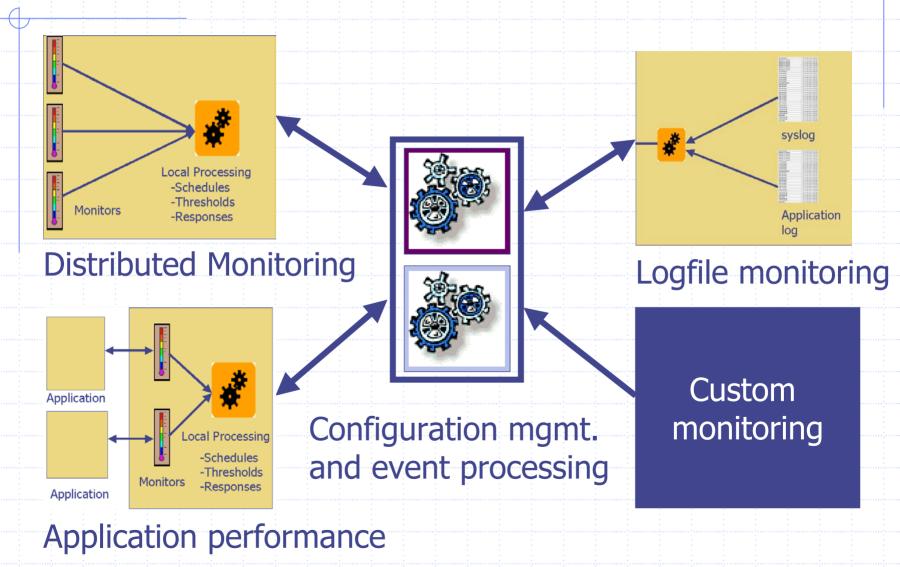
Monitoring Hosts and Applications with Tivoli

Chuck Augustine
CIT Enterprise Services
June 12, 2001

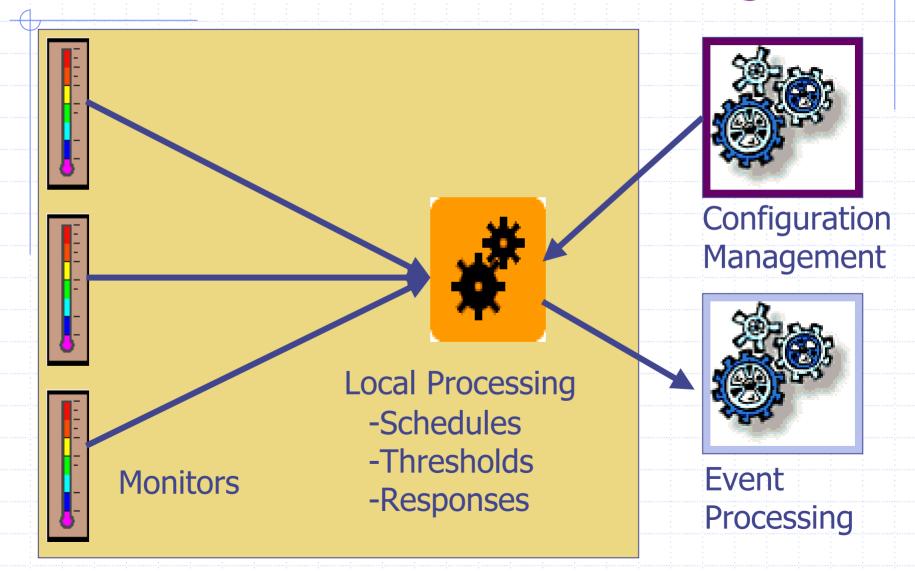
Tivoli Architecture

- "Framework"
 - Distributed object database
 - ORB or proxy agent on each managed host
 - Configuration: Profiles and distributions
 - Security: Policy regions and roles
- Applications
 - Distributed Monitoring
 - Software Distribution
 - Inventory

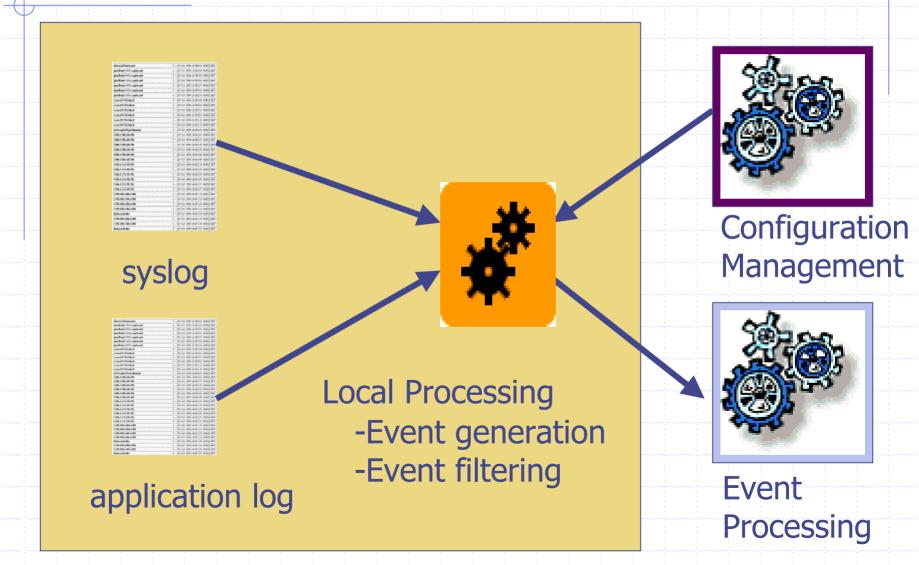
Tivoli Monitoring Architecture



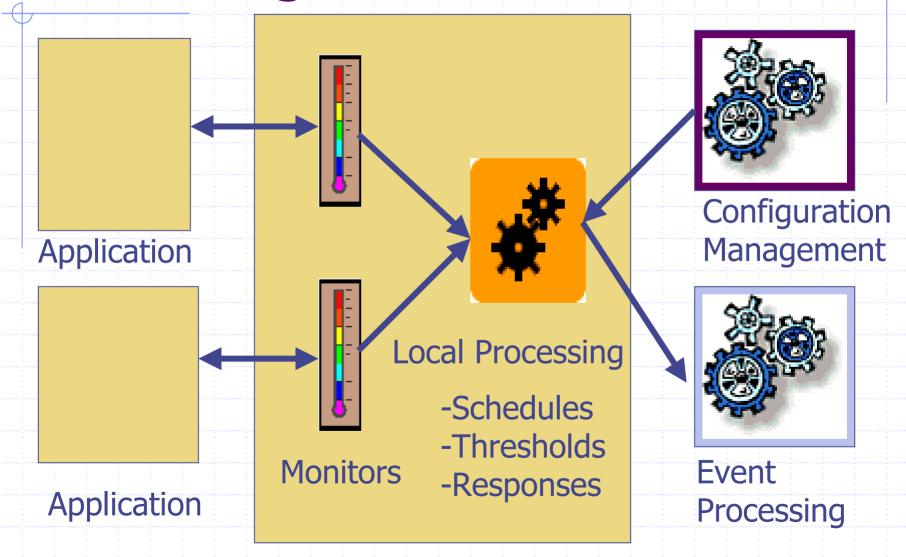
Tivoli Distributed Monitoring



Log File Monitoring



Application Performance Monitoring



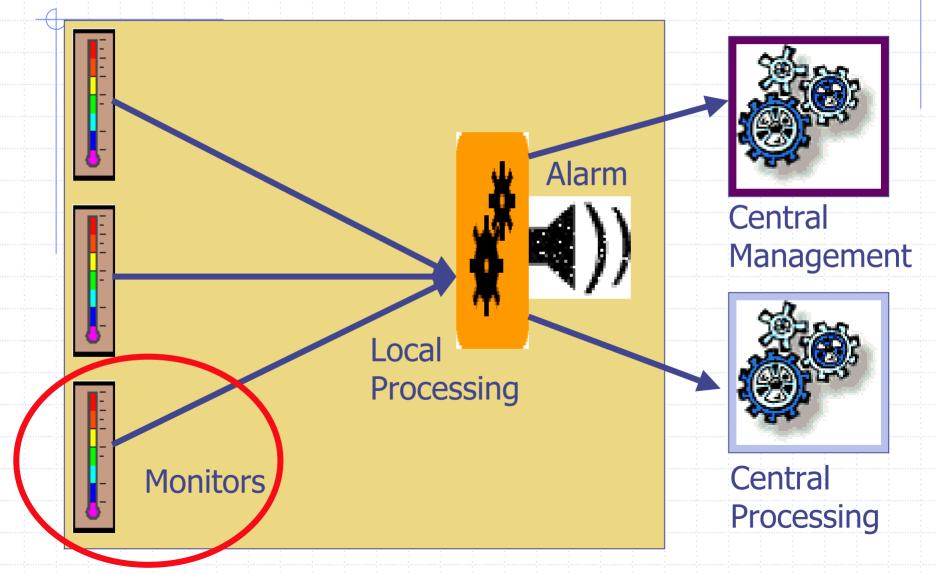
Custom Monitors

- Application log file filters
- Custom monitoring probes
- Send events from scripts or programs

Application log file filters

- Define message types
- Match log file messages to types
- Map message fields to event fields
- Filter unwanted events

Custom Monitoring



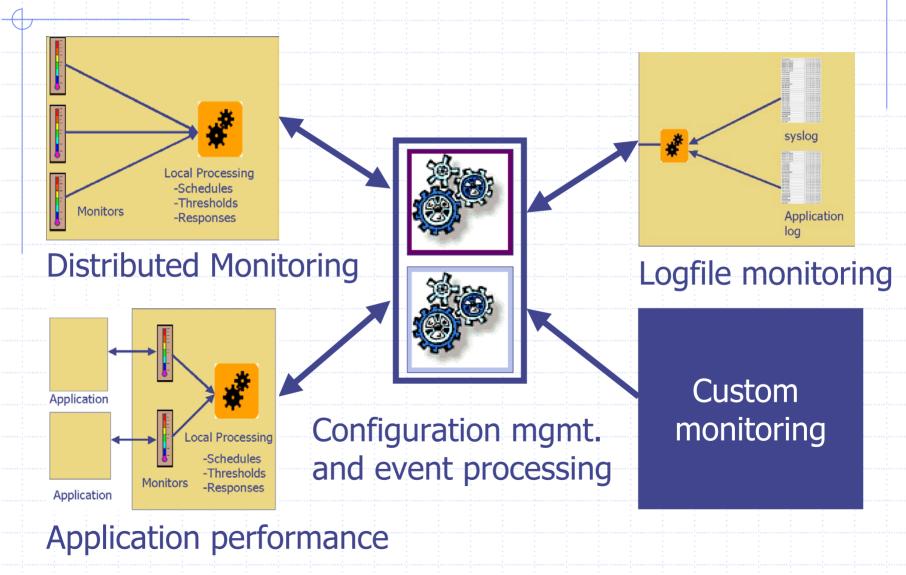
Custom Monitors

- Script wrapper
 - Argument is program or script to run
 - Returns a numeric or string value
 - Several are in use at Princeton
- Custom monitor
 - More complex to create
 - Arbitrary arguments
 - Returns a numeric or string value

Send events from a script

- Define event name and contents
- Call program to sends the event
- Via Tivoli framework or tcp/ip
- Princeton documentation

Tivoli Monitoring Architecture



Configuration Management

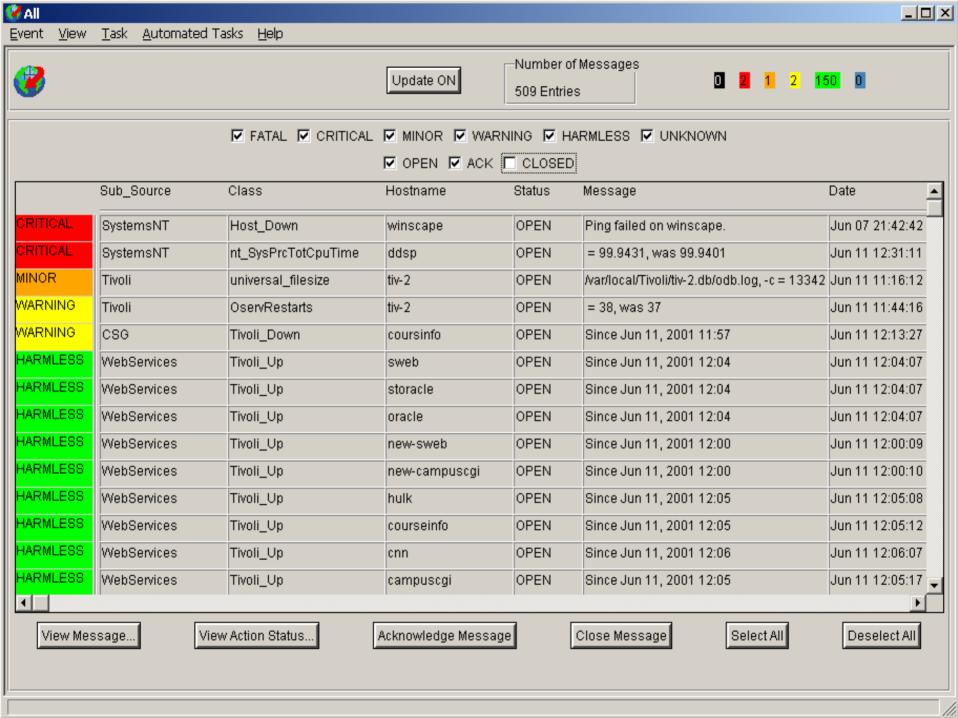
- Distribute monitors
- Set and examine thresholds
- Set and examine schedules
- Set and examine response actions
- Both command line and GUI access

Event Processing

- ◆Tivoli Enterprise Console (TEC)
- Display events
- Close events
- Prolog-based rules engine

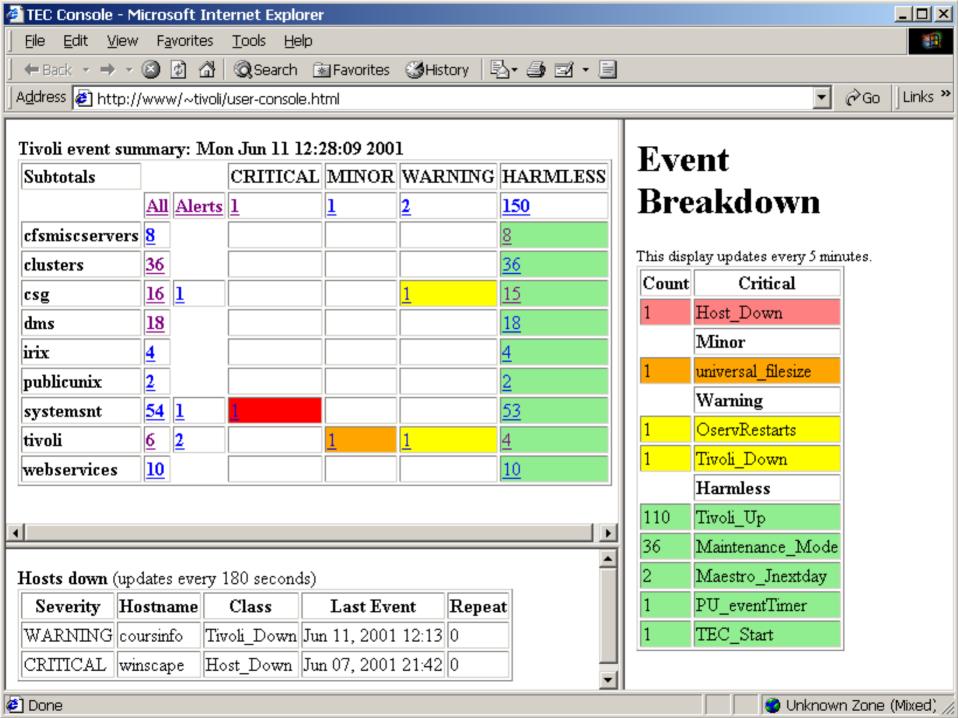
Tivoli Event Display

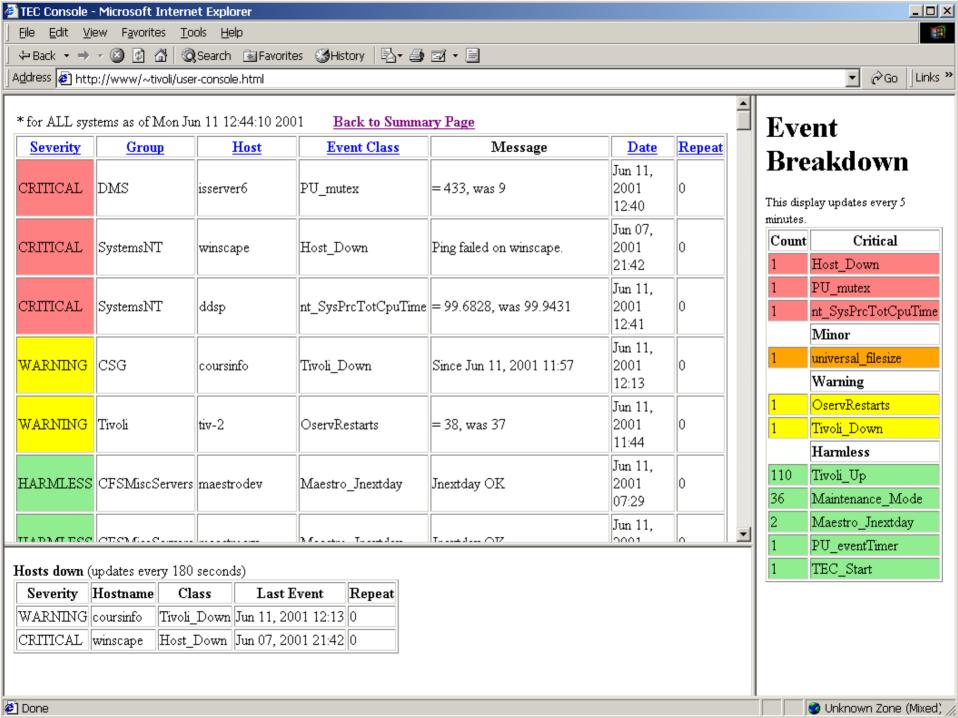
- Windows or X-Windows versions
- Sort and select events
- Define views (event groups)
- Close events



Web Event Display

- View with any browser
- Automatically updated
- Summary page and drill-down
- Reads event repository database
- Sort detail page on any field





Prolog Rules Engine

- Select events to act on
- Modify event record
- Correlate with previous events
- Set timers on events
- Call external scripts

Current Projects

- Manager for Oracle
- Improved notification
- Update to current version

Coming Attractions

- Web transaction performance
- Manager for NT
- Manager for Unix
- Graphical system health display