

SystemAnalyzer™

Application Usage Analytics

Key Benefits

- Align IT resources with business needs
- Ensure document compliance
- Improve capacity and performance planning
- Document best practices to support business process improvements
- Be more prepared for vendor negotiations
- Measure and demonstrate ROI of IT investments
- Monitor technology uptake within the organization and uncover training needs
- Identify bottlenecks and inefficient usage patterns
- Enable chargeback
- Use objective reports that facilitate communication between business units
- Include reports for C-level and IT managers

- Provides a centralized overview of usage patterns for system resources
- Reduces software costs by cutting surplus licenses
- Supports business process improvements by documenting best practices
- Allows for accurate and flexible IT budgeting and chargeback
- Enables performance maximization for system resources

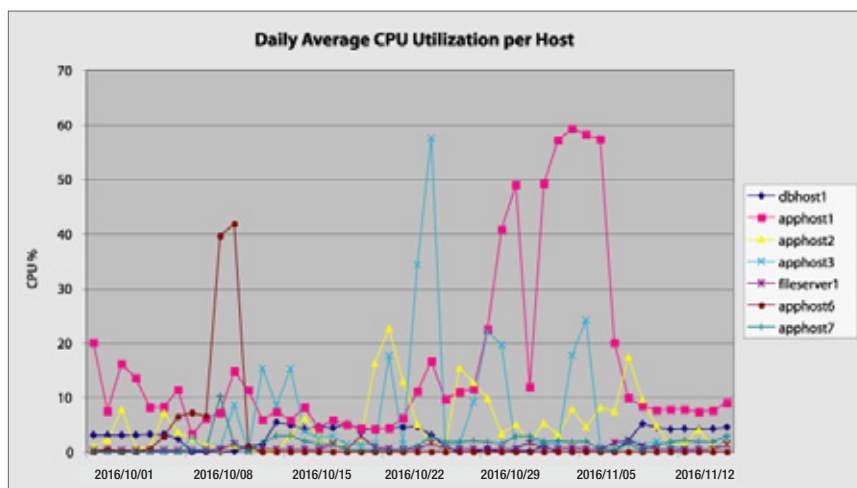
Open iT SystemAnalyzer is an essential tool for those who require better control of their software and hardware system resources.

With SystemAnalyzer, find resources that are not in use or under-utilized, reduce liability risk by documenting what is installed and what is in use, and document shortages and justify new purchases. It supports accurate and flexible chargeback to internal or external business units and lowers audit reporting and budgeting costs. It also reduces the overall cost of managing assets.

With Open iT, efforts in business process improvements can be supported. Develop best practices and streamline corporate operations by documenting how IT is being used successfully in projects or departments.

How SystemAnalyzer Works

SystemAnalyzer measures CPU, memory and I/O usage for all applications, users, and hosts. It is a client/server-based software that captures application usage and inventory for PC's and workstations. Data is collected by clients and then transferred, processed and stored in a data warehouse on the Open iT server. The server can be accessed through a web browser, and usage and inventory reports can easily be generated by anyone with access to server.



Get the real facts on how system resources are being used. Watch trends, discover bottlenecks and easily assign cost of resource usage to user groups, projects, business units or even global sites. ▲

Open IT Software tools* that analyze and optimize your IT resources:

LicenseAnalyzer™

Provides an enterprise view of software applications enabled by license managers, showing when and by whom they are used over time, by location, business unit or project group. Enables chargeback accounting, usage-based license agreements, accurate workflow analysis and optimal license usage.

LicenseOptimizer™

Monitors activity levels for installed applications and can free up unused licenses for active users on high priority projects, delivering extremely targeted license management.

SystemAnalyzer™

Measures CPU, memory and I/O usage for all applications, users, and hosts, as well as application usage and inventory for PCs and workstations. Permits fine-tuning of machine capacity and chargeback or usage accounting for a variety of system-wide IT functionalities.

StorageAnalyzer™

Delivers an overview of disk and backup data, enabling optimal data storage management. Shows trends and potential capacity problems and provides an accurate basis for charging for data storage services.

Application Tracker™

Monitors activity levels of all applications on Windows and Unix platforms. Includes an independent licensing method system that can run without using wrappers.

UsageAnalyzer™

Tracks keyboard and mouse activities to find inefficient computer user patterns and to monitor activity levels of user/hosts and applications.

*Supports Unix and Windows platforms.

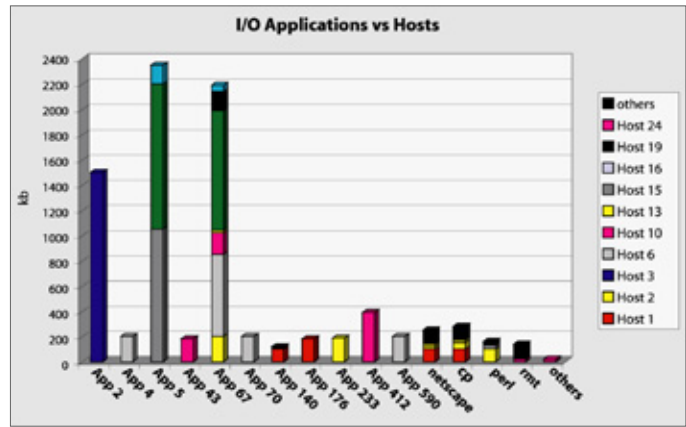
Flexible & Customizable Reporting

Open IT Software offers two flexible reporting servers.

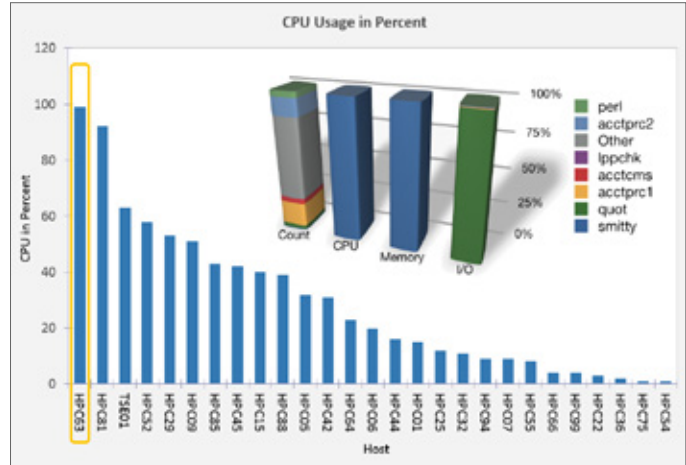
Reporting Server is a reporting tool with proprietary database that gives users the ability to generate reports based from collected license usage data.

Analysis Server is an SQL-based reporting tool that enables users to make reports based from the data that has been collected. It includes a web interface that enables users to create customizable report templates. It also includes a real-time license monitoring system, an alert system for license usage, a powerful user profile definition system, and excel-based dashboards.

Based on extensive customer feedback and over a decade of experience, each Open IT module comes with a standard set of reports. With customizable templates, completely new reports can be easily built based on specific needs. Reports can be generated on a scheduled basis or created on demand. Each scheduled report can be customized to determine availability, frequency, resolution and data coverage. Choose from pie charts, line plots or tables for report formats and change the format on the fly for easy data analysis. With a single click, reports can be viewed in Microsoft® Excel™ for further work and may be shared with internal and external resources such as chargeback invoicing. Analysis Server is only available for Windows.



I/O activity for each application broken down to specific hosts. ▲



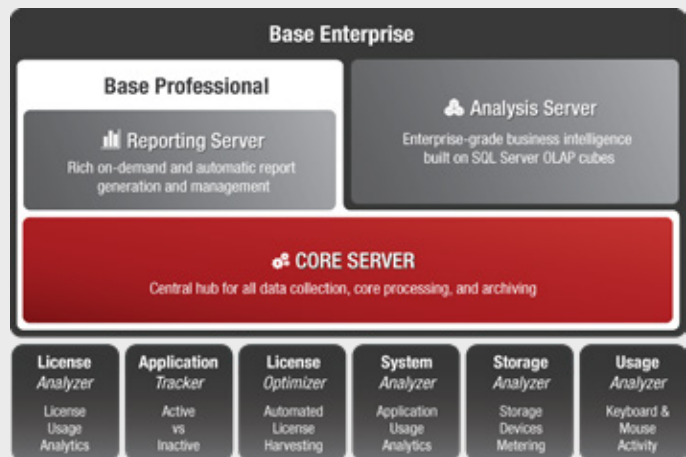
Learn how resources are really being utilized. A server's CPU capacity may be fully utilized but looking into details, there may be programs consuming all the resources, making the server completely unavailable for other programs to run. ▲

Open IT Software Suite

The Open IT Software Suite is a client/server based solution containing reporting tool mechanisms. The Open IT Core Server is the central hub for data collection, storage and processing. It receives collected usage data from optional client modules, which are installed on areas of the IT infrastructure targeted for usage monitoring. Processed data is then made available by the Core Server to the rest of the Open IT system for reporting and asset management purposes.

“
Open IT is an indispensable tool
for monitoring and managing
our data resources.”

Ole Preben Berget
Statoil



Modular composition of the Open IT Software Suite

Get Started



Contact: sales@openit.com

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SystemAnalyzer GRID Extension™

System Usage Analytics

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Open IT SystemAnalyzer GRID offers plugins and connectors for metering of distributed computer environments such as:

- LSF
- TORQUE
- Sun Grid Engine
- Open PBS
- PBS Professional

A queueing system's performance may vary depending on user input, configuration or system errors. SystemAnalyzer Grid Extension tracks issues such as wait time versus throughput for the different queues/users/projects, track failed jobs over time, requested commands or resources, as well as reasons for jobs being held back in the queue ("pending reason"). It provides an immediate overview of the performance and utilization of the HPC environment. Some of the reports that may be generated are particularly interesting when combined with other sources of data. It allows for better utilization and performance management of these systems by showing how much of the jobs were run outside of the queueing system, what are the major performance bottlenecks, etc.

Chargeback

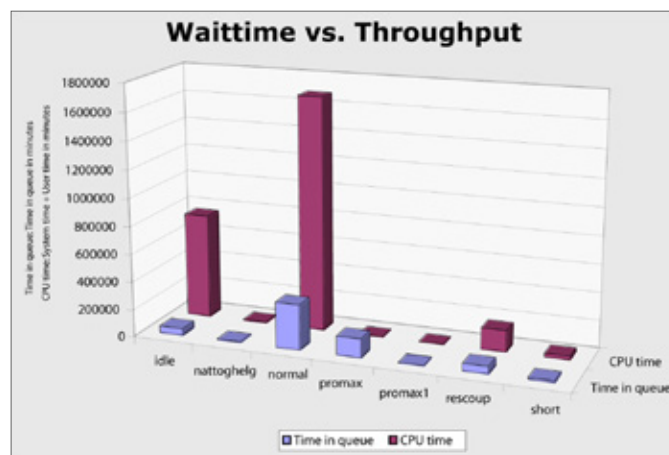
Open IT SystemAnalyzer GRID Extension enables chargeback accounting for the use of IT resources. Chargeback can be done for several resources, such as a cost factor by CPU seconds (usually CPU speed dependent), but other factors may also be brought into account, such as memory size and bandwidth. If SystemAnalyzer GRID

Extension is combined with Open IT Analysis Server, the chargeback mechanisms are virtually unlimited.

Pending Reason

More interesting than the sheer number of hours a job has been waiting, is the ability to find out exactly why the job is pending. Drill into this information and perform advanced analysis on these data with SystemAnalyzer GRID Extension. Some of the measurements available for analysis are:

- Reason that the job was pending
- Requested resources, describing which resources the pending job required
- Number of hosts for which a given pending reason was valid
- Number of pending reasons in report interval
- Elapsed time for selected pending reasons
- Project, User, Queue, Command, etc. of the pending jobs



This graph shows the wait-time (Time in queue) compared to the throughput (CPU time) of the queueing system. Note the long wait time in the "promax" queue compared to the throughput (compared to e.g. "idle"). All these are important statistics when evaluating the performance and configuration of the queueing system. ▲

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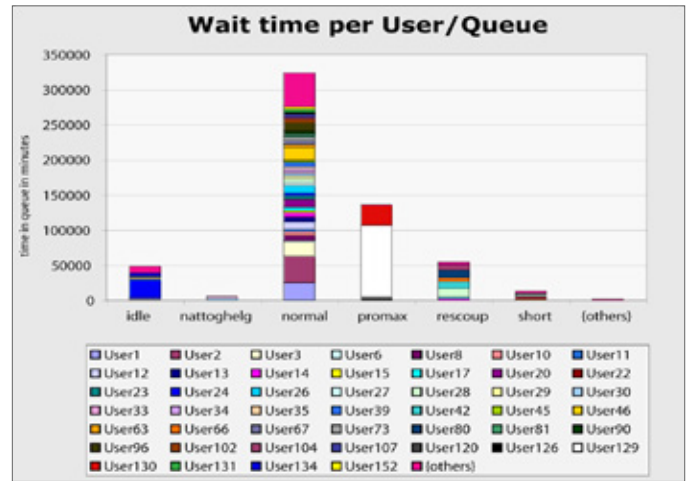
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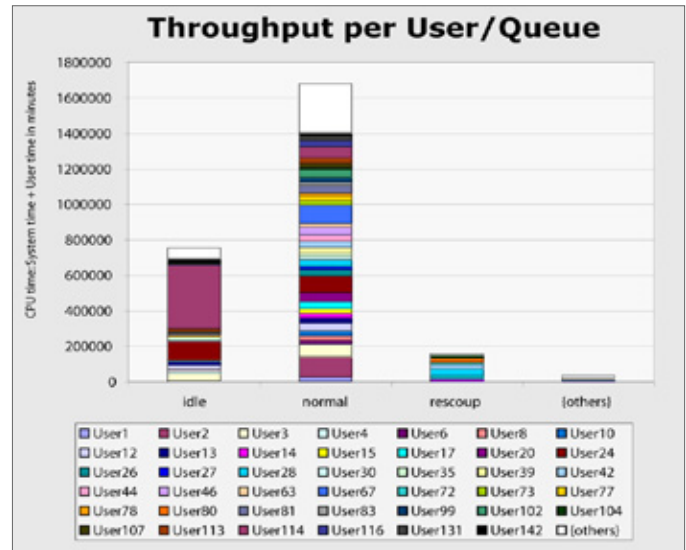
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This report shows the wait time for each user, classified by queue. User 129 had waited for a long time in the "promax" queue. ▲



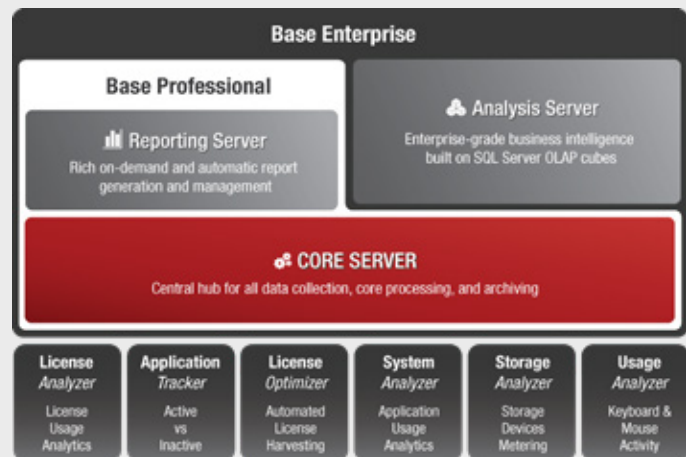
This report shows the throughput for each user, classified by queue. ▲

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