System CPU Monitor

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Version: 1.0

License: MIT

Platform: Python 3.x

Dependencies: psutil

Overview

This Python script continuously monitors system-wide CPU usage and alerts the user when usage exceeds a defined threshold. It's ideal for system administrators, developers, or anyone needing real-time performance insights.

Features

- Q Monitors CPU usage in real-time
- 👗 Alerts when usage exceeds a configurable threshold
- Logs timestamped usage data
- 🙋 Adjustable monitoring interval
- Graceful shutdown with Ctrl+C
- Questil for cross-platform compatibility

Usage

1. Install Dependencies

pip install psutil

2. Run the Script

python cpu_monitor.py

Configuration

You can modify these variables in the script to suit your needs:

CPU_THRESHOLD = 80.0 # Alert if CPU usage exceeds 80%

MONITOR_INTERVAL = 5 # Check every 5 seconds

Sample Output

Starting System Monitor...

Alert threshold set to 80.0% CPU usage.

Checking every 5 seconds.

Press Ctrl+C to stop.

[2025-08-29 21:30:00] Current CPU Usage: 45.2%

[2025-08-29 21:30:05] Current CPU Usage: 82.7%

准 ALERT! 凗

[2025-08-29 21:30:05] High CPU usage detected: 82.7%

This is above the threshold of 80.0%.

Lessons Learned

- Real-time monitoring helps catch performance spikes early
- Graceful exits improve user experience
- Timestamped logs aid in diagnostics and reporting
- Cross-platform tools like psutil simplify system scripting

Disclaimer

This script is intended for monitoring and educational purposes. It does not take corrective action—only alerts. Use in conjunction with other system tools for full performance management.