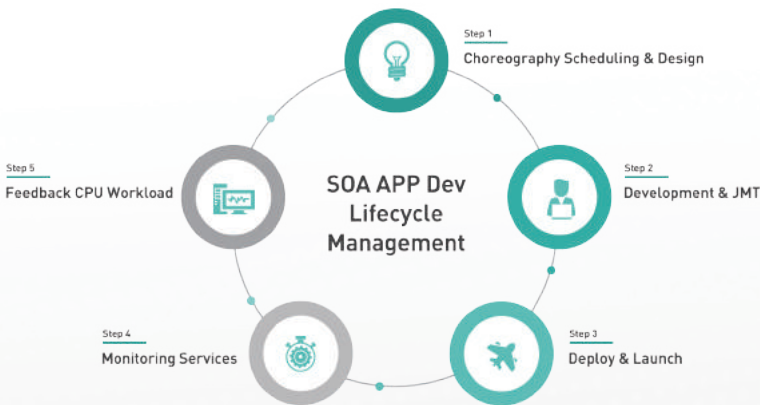**JOYNEXT**

JOYNEXT nDrive-Autonomous Driving JMT

Cross-platform central-computing oriented deterministic communication and scheduling middleware
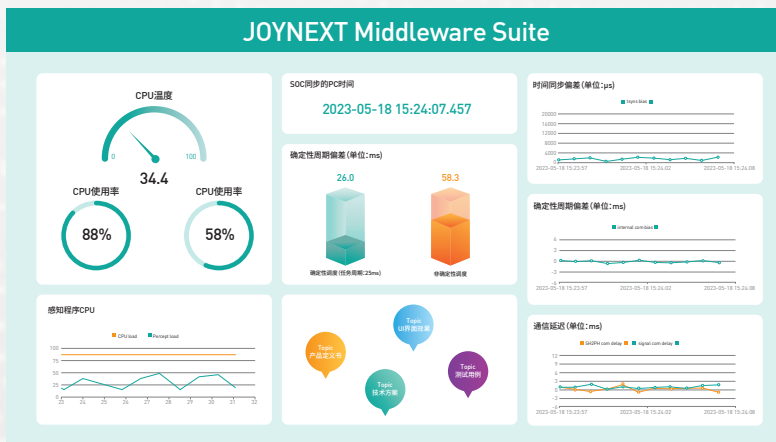
Technical Details

- **Global deterministic scheduling**, visualized tool-based task scheduling (DAG, directional acyclic graph), including multi-task scheduling strategies
- Cross-domain deterministic **communication and global scheduling fusion**
- **Global** high-precision **time synchronization**
- **Multi-platform** seamless migration, one-click transplantation of upper-layer applications

Step 1
Choreography Scheduling & Design

Step 2
Development & JMT

SOA APP Dev
Lifecycle
Management

Step 3
Deploy & Launch

Step 4
Monitoring Services

Step 5
Feedback CPU Workload

Features

- JMT provides deterministic communication and scheduling features and functions to build middleware based on platforms. Middleware tool chains can help improve product quality and accelerate development, and enhance post-development performance tuning through DAG

JOYNEXT Middleware Suite

CPU温度

34.4

CPU使用率   CPU使用率

88%   58%

SOC同步的PC时间
2023-05-18 15:24:07.457

确定性周期偏差 (单位:ms)
26.0   58.3

确定性调度 (任务周期:25ms)   非确定性调度

感知程序CPU

时间同步偏差 (单位:μs)

确定性周期偏差 (单位:ms)

Topic
UI界面效果

Topic
产品需求分析

Topic
技术方案

Topic
测试用例

通信延迟 (单位:ms)

Applications

- Support rapid deployment by L2-L4 automated driving algorithm
- Accelerated implementation of multi-domain fusion products oriented for next generation of electronic architecture