

Lightweight Built-in Network Monitor in Linux Kernel for self-adaptive IoT Devices

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Abstract—Most of the network monitor systems use a user-level network capture library. The user-level library incurs a large overhead and provides inaccurate and insufficient information for self-adaptive networks. For these reasons, we develop a lightweight built-in network monitor running at Linux kernel level for self-adaptive IoT devices.

Keyword—Network monitor, TCP, Packet Latency, Bandwidth, Linux kernel



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