

Skilled in the Art of Being Idle: Reducing Energy Waste in Networked Systems

Sergiu Nedevschi, Jaideep Chandrashekar, Junda Liu, Bruce Nordman, Sylvia Ratnasamy, Nina Taft

Presented by Pat McClory

Introduction

- It's estimated in the U.S. energy consumption of networked systems approaches 150 TWh, costing around 15 billion dollars.
- About 75% of this consumption can be attributed to homes and enterprises.

Introduction

- Problem: Because sleep states cause a machine to effectively lose its network presence, many users decline to utilize them.
- Goal: To develop a strategy where machines can take advantage of sleep states during idle periods without the penalty of losing network presence.