




William Su

Nov. 26th, 1987

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Qualifications

- Software development for GNU/Linux, e.g., load balancing mechanism on NUMA systems.
- Familiar with Shell Scripts for test automations.
- Familiar with fastener manufacturing processes.

Skills

C programming	GNU/Linux	Shell Scripts
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Work Experiences

Ying-Ming Jan 2012 - Oct 2014	Process RD	Study product spec., design the manufacturing processes, and deliver the quality control documentations.
Wistron Dec 2019 - May 2022	S/W RD	Receive or survey tool programs for product function tests. Develop and implement the test plan for products. Deliver the integration function test UI for test automation.

Eduction

National Chi Nan University - M.S in Information Management	Sep 2015 - Jun 2019
• Master Thesis: <i>"Improving the Inter-node Load Balancing with Enhanced Task Selection Policies for Multi-threaded Applications on NUMA systems."</i>	
National Chi Nan University - B.S in Information Management	Sep 2005 - Jun 2010

Publication

Mei-Ling Chiang, Shu-Wei Tu, Wei-Lun Su, Chen-Wei Lin (2018), "Enhancing Inter-Node Process Migration for Load Balancing on Linux-based NUMA Multicore Systems," 10th IEEE International Workshop on Computer Forensics in Software Engineering (CFSE 2018), Tokyo, Japan, July 23-27, 2018.

Mei-Ling Chiang, Wei-Lun Su, Shu-Wei Tu, and Zhen-Wei Lin (2019), "Memory-Aware Kernel Mechanism and Policies for Improving Inter-Node Load Balancing on NUMA Systems," Software: Practice and Experience, Vol. 49, No. 10, pp. 1485-1508.

Wei-Lun Su and Mei-Ling Chiang (2021), "Improving the Inter-node Load Balancing for Multi-threaded Applications on NUMA Multi-Core Systems," 26th Compiler Techniques & System Software for High-Performance & Embedded Computing (CTHPC), Taiwan, May 2021.

Mei-Ling Chiang and Wei-Lun Su (2021), "Thread-Aware Mechanism to Enhance Inter-Node Load Balancing for Multithreaded Applications on NUMA Systems," Applied Sciences, 11(14), 6486; <https://doi.org/10.3390/app11146486>.

Using the task memory consumption on each NUMA node to decrease the possible remote memory access incurred during task migration as system load imbalance. For multi-threaded applications whose thread members share memory pages, another method to consider the distribution of thread groups on each NUMA node can also improve the task migration policy on NUMA systems.