

Umeå University
Department of Computing Science

Operating Systems 7.5 p
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Assignment 2, Linux Scheduler Benchmarking

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1 Introduction

The aim was to benchmark two or more schedulers for the linux kernel. For this purpose, a user-space program had to be written and obtained data was to be evaluated using an analysis framework of choice. Here,

2 Material and Method

2.1 The benchmark program

Sorting arrays of various length. Each array sorting one thread. Each thread reports start time, end time and runtime. Tasks should take reasonably long. Use a fixed number of threads. For example 50. Data creation ahead of processing. Create one long array and copy to new arrays.

length of arrays in assignment order to threads: increasing decreasing steady random

2.2 Data Evaluation

Data evaluation by R. Same experiment run 10-20 times. Barchart for 10, 10, 1, - array length, showing three bars for each array length (fifo, RR, CFS). barchart with total run time for fifo, RR, CFS

3 Results

4 Discussion