



Measuring the CPU time: misunderstood and unknown aspects – Part 1

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1 Introduction

CPU time is the most relevant performance metric measured at every z/OS site.

The reason why measuring the CPU time is considered so important is because hardware and software costs are generally correlated to the CPU usage or to the number of CPUs.

Nonetheless some aspects of CPU related metrics are often misunderstood or unknown.

In this paper we will discuss:

- CPU service unit's instability,
- CPU/zIIP time split and normalization issues in SMF 72,
- not accounted CPU time in SMF interval records,
- not accounted CPU/zIIP time in CICS and IMS transaction records,
- CPU/zIIP time split and normalization in subsystems measurements,
- CPU/zIIP consumptions for cryptography,
- how to avoid zIIP eligible time on CPU.