

## **CPU Latent Demand and Specialized Processors**

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Performance analysts know that, if the CPU utilisation is at 100% for long periods of time, there is a strong probability that the system is saturated and a further resource demand, hidden in the CPU queue, needs to be estimated. This demand is generally known as “CPU latent demand”.

Most of the techniques used to estimate latent demand in the last years have been based on the CPU ready queue. Unfortunately the availability of the new specialized processors (zAAP and zIIP) changed the meaning of this metric: it now provides the number of AS running on or waiting for GCP, zAAP or zIIP (not only for GCP).

This paper will discuss latent demand in the new zAAP and zIIP world suggesting an approach to understand if latent demand is in the system and to which kind of processor it belongs to.