



MORPHEUS

D5.2: Definition of reference baselines and evaluation metrics

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ABSTRACT	This document is the abstract of the D5.2. It is available on the MORPHEUS public website
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Four case studies and three metrics have been selected to appraise the Morpheus architecture and tools. The 4 case studies have been discussed in document D5.1 (Definition of reference baselines and evaluation metrics). The three metrics are presented in this D5.2 document. These 3 metrics are

- Reconfiguration needs
- Processing power (with complementary figures on silicon area and power consumption)
- Design time and cost

For each metrics and for each case study,

- the definition of the metrics
- the needs of the application
- the reference baseline (state of the art of current technology)
- the appraisal process

are discussed. The results are summarised in a table.

A 1st conclusion from this discussion is the great variety of requirements as coming from the applications chosen in the case studies.

A 2nd conclusion is the inter-dependency of needs. Very often, a need coming from an application can be reduced during implementation choices but this would lead consequently to increase another need. The consequence for an architecture like Morpheus which is still under design phase is that a close interaction between architecture designers and application designers is a very fruitful opportunity to optimise both the architecture and the implementation choices. This will be our work in the framework of the Morpheus project during the coming months.

