

Exercise G – Real-Time Architectures

1. Preparation: read [1].
2. From Fig. 2 of that article, the costs at low functionality are set equal for the traditional and scalable approach. Think about the different cost factors and discuss the validity of the graphs, perhaps with a different result.
3. Fig. 4-6 show SVAs with defined resource-quality combinations.
 - What are possible resources and what could be meant by quality?
 - Is a more general description of resources possible, not knowing the implementation platform?
 - Are other concepts of SVAs possible? What would be the advantages or drawbacks?

Reference

- [1] C. Hentschel, R.J. Bril, Y. Chen, R. Braspenning, and T.-H. Lan, *Video Quality-of-Service for consumer terminals - a novel system for programmable components*, In: IEEE Transactions on Consumer Electronics, 49(4): 1367-1377, November 2003.