ECE5658: Operating Systems Design – week5 critique

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1. Power provisioning for a warehouse-sized computer

(1) Large-scale computer servers require many computing resources. However, using a lot of computing resources consumes a lot of power. This paper models how power consumption is achieved in large systems, and concludes on technologies that can be effective.

(2)

       (+): Indicates which case the large-scale server uses the power budget inefficiently

(3) I wonder if there is a follow-up paper to solve the power consumption problem

2. Where is the energy spent inside my app? Fine Grained Energy Accounting on Smartphones with Eprof

(1) The eprof proposed in this paper is an energy profiler for smartphone applications. Several energy bugs found through eprof are presented, and a new accounting presentation is proposed to solve them.

(2)

       (+): reduce power consumption in smartphone applications

(3) It is expected that the techniques proposed in this paper will be applied not only to smartphones but also to a number other potable devices (e.g. portable game consoles) to increase the device's usage time.