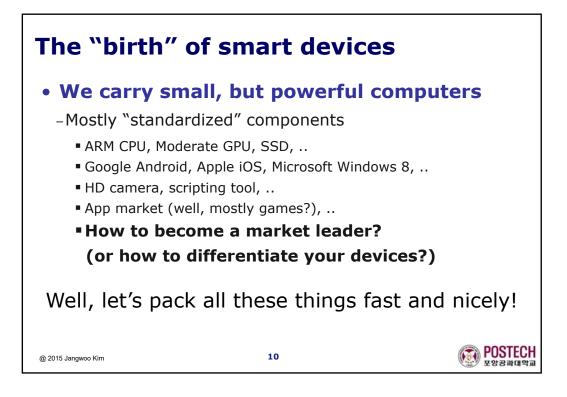
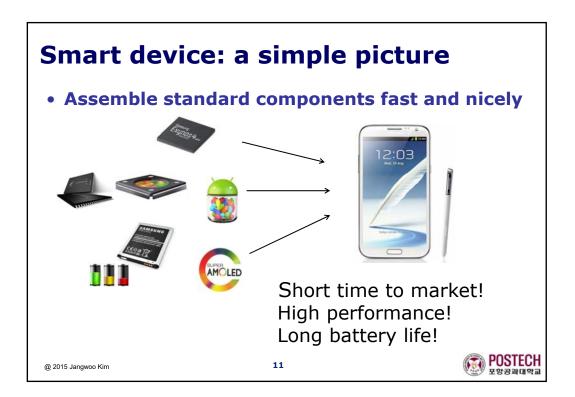
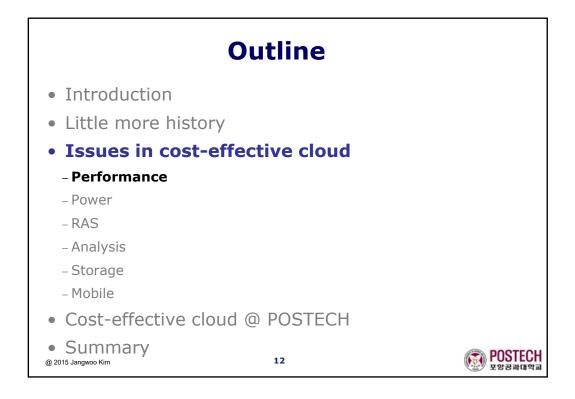
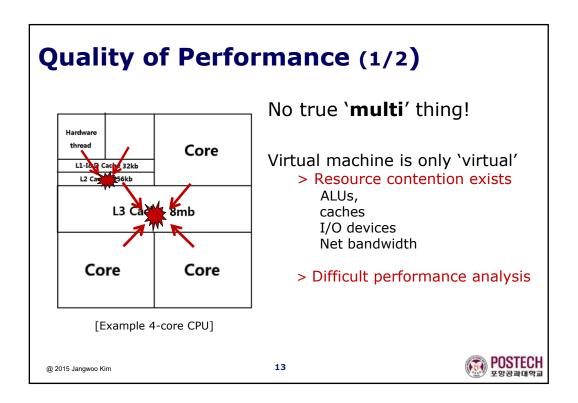


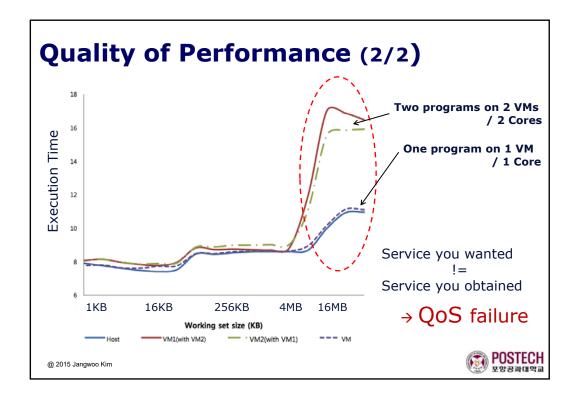
| The "birth" | of big data | |
|---|------------------------------|--------------------------|
| • How did it st | art? | |
| –BIG, BIG, BIG d | lata | |
| -Existing things | are not working any more | |
| Fault tolerand Can work with Read & Write | e data as we used to do? | |
| Can work on t | he large data on many nodes? | |
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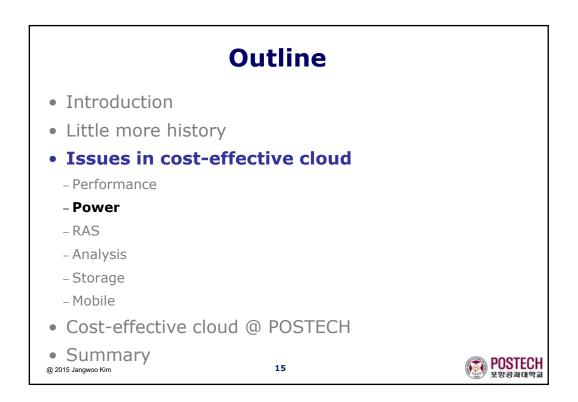


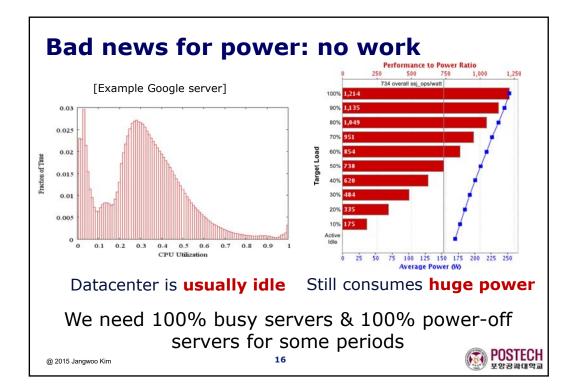


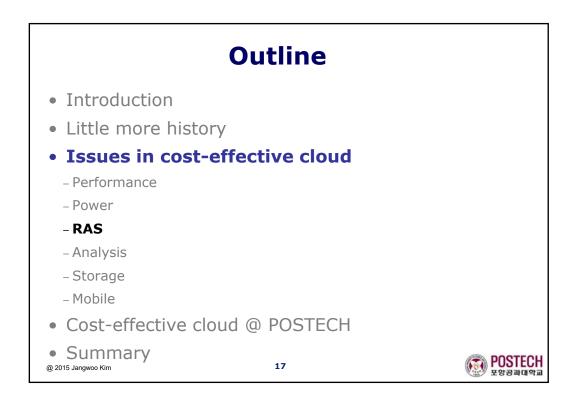


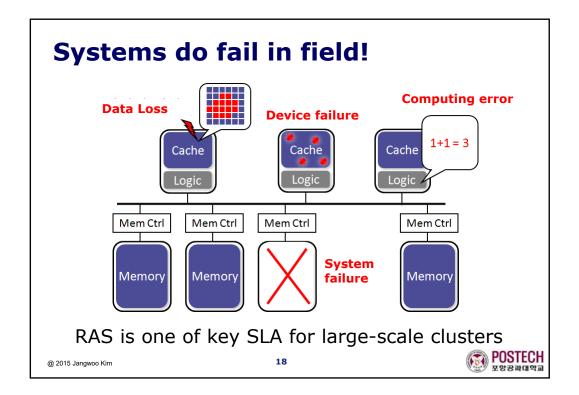


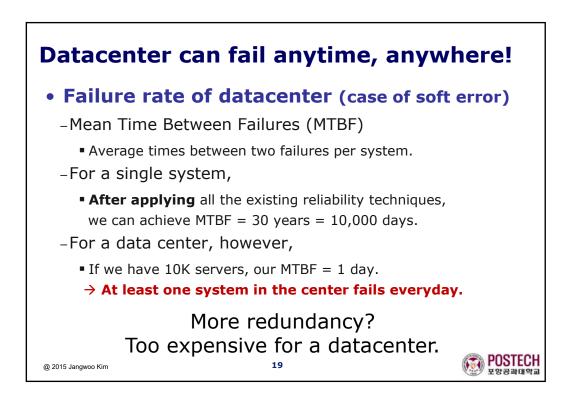


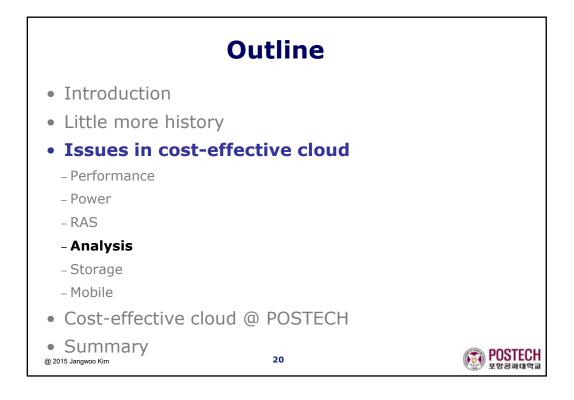




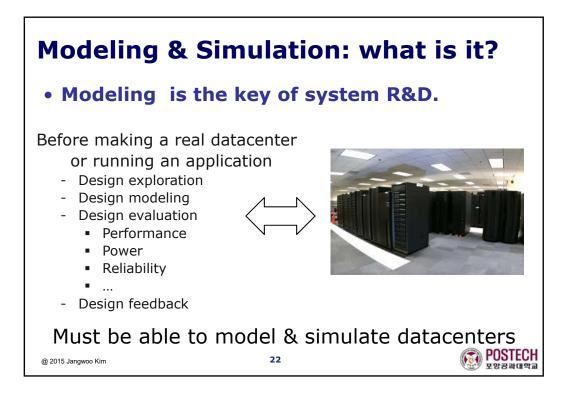


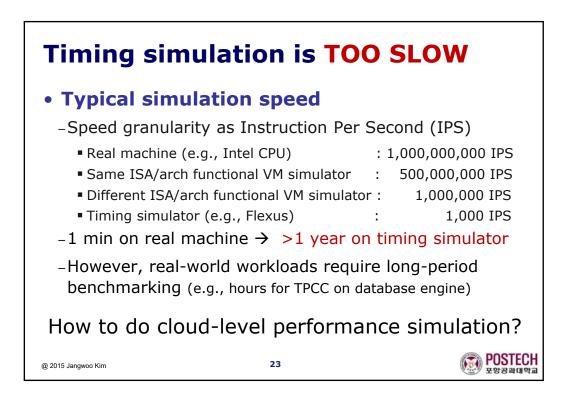


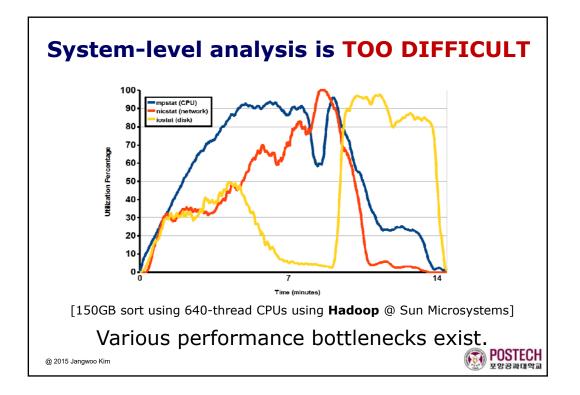


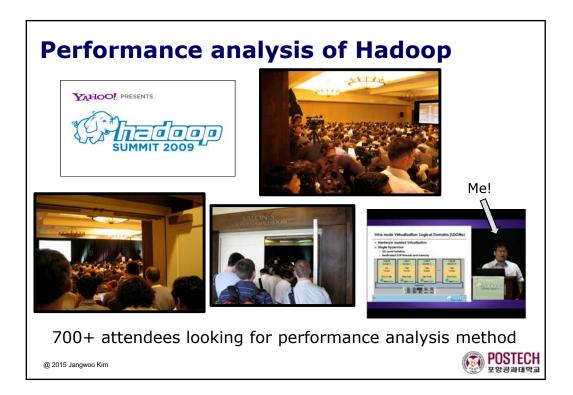


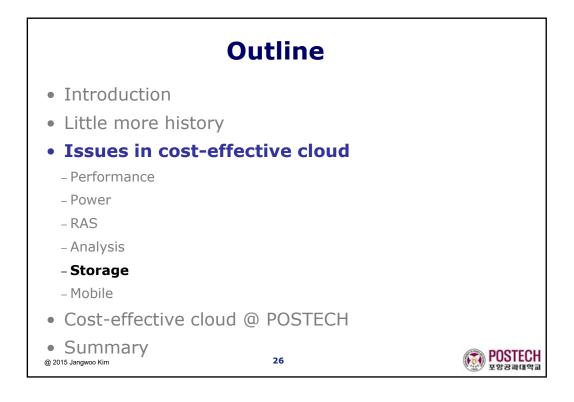
| VM-level analysis is T | 00 | _IMI | TED |
|---------------------------------|---------|-------------------|-------------------------------|
| | samples | % | large intel |
| | 45249 | 98.6892 0.7939 | kvm_intel vmlinux |
| | 36 | 0.0785 | r600_dri.so |
| | 22 | 0.0480 | kvm |
| Difficult to analyze the perfor | mance | e of ap | ps on VM |
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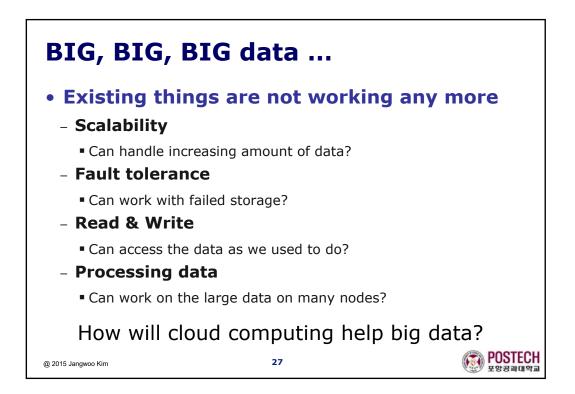


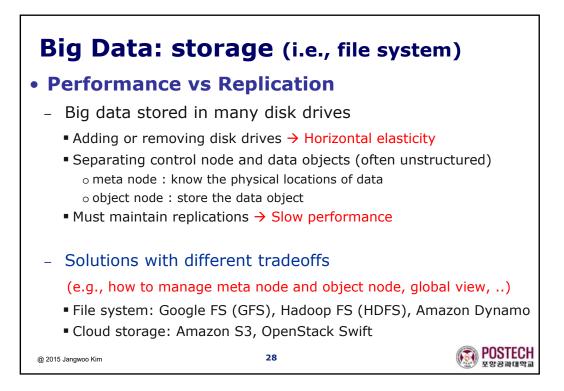


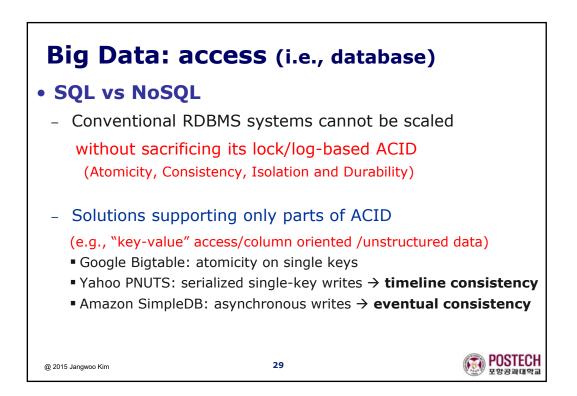


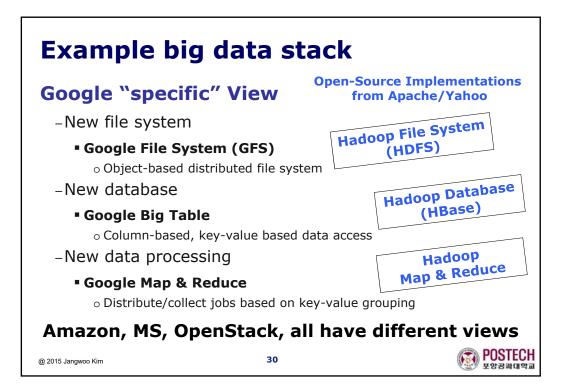


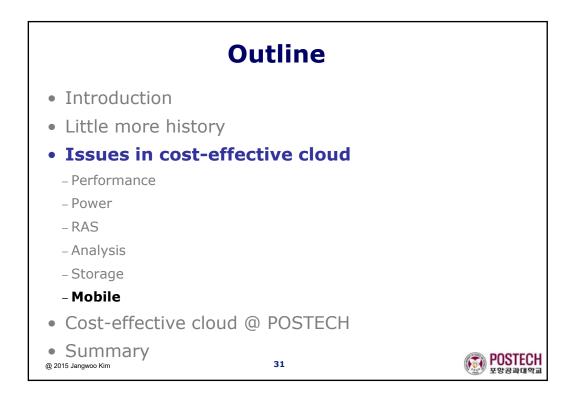


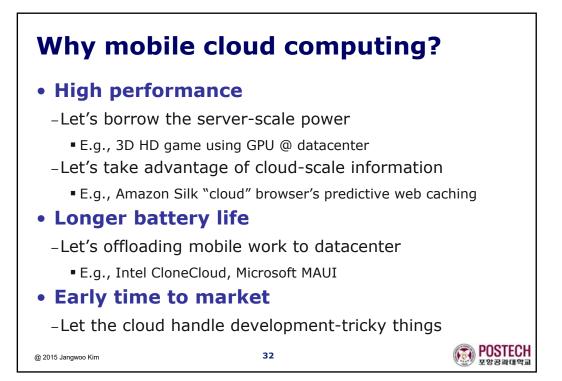


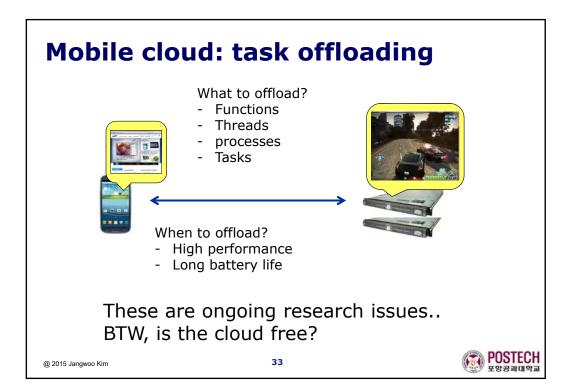




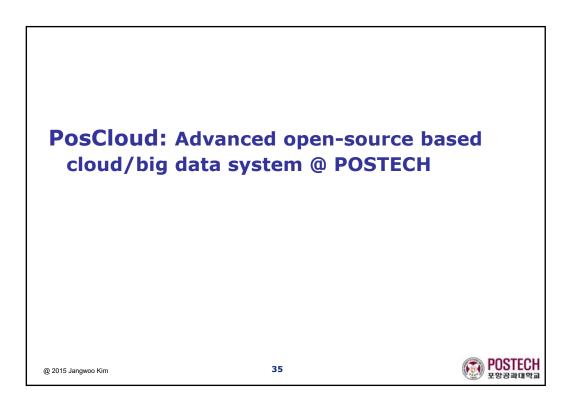


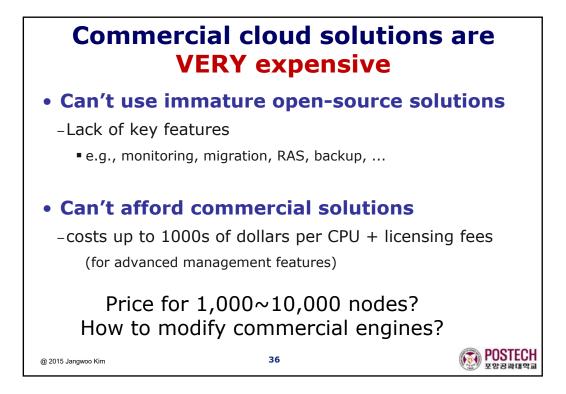


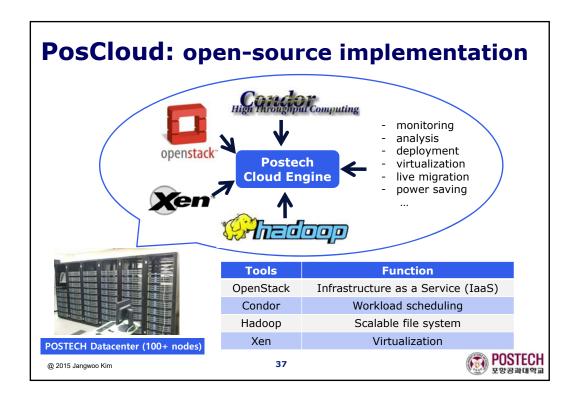


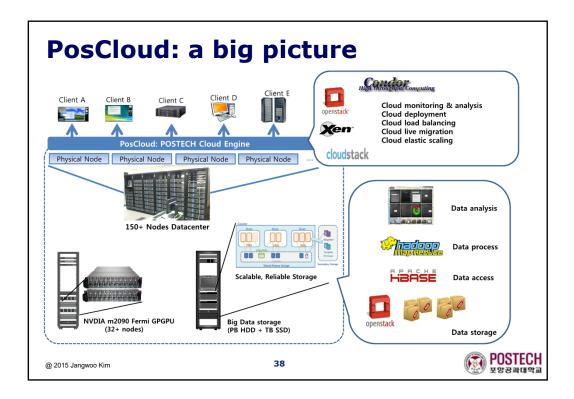


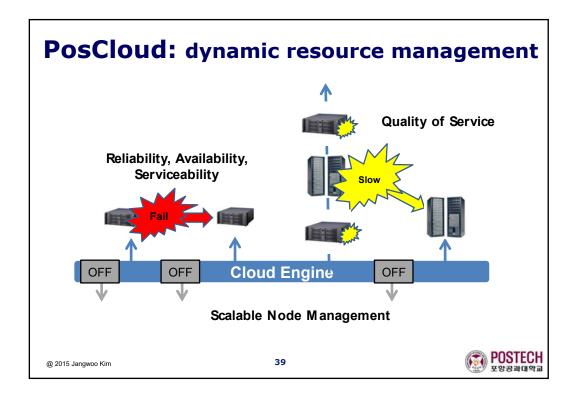
| Outline | |
|--|-------------------------------|
| Introduction | |
| Little more history | |
| Issues in cost-effective cloud | |
| Cost-effective cloud @ POSTECH | |
| - Compute Cloud | |
| – Storage Cloud | |
| – Mobile Cloud | |
| – Cloud Workload | |
| Summary | |
| | |
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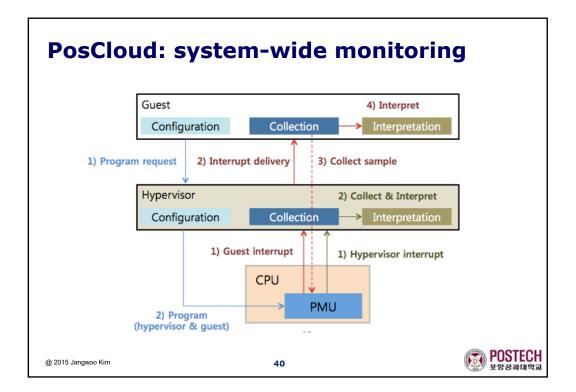












| Service Quality IaaS Service | | Typical Open-source | Typical Commercial | PosCloud |
|-------------------------------|-------------------|------------------------|------------------------|--------------|
| | | √ | √ | \checkmark |
| Cloud Computing Management | Performance | - | \checkmark | √+ |
| | Power | - | \checkmark | √+ |
| | Recovery | - | \checkmark | √+ |
| | Availability | - | \checkmark | √+ |
| | Other Features | - | ? | \checkmark |
| Open-source Platform | | - | - | \checkmark |
| S/W costs | | ~\$0 | 1000s of \$ per CPU | ~\$0 |

