CSE 536  Adv OS

Recap:

IoT

Sensor + actuator swarm

Smart cell phones / base stations

Fog servers

Android
Linux

Cloud servers

Unix, Linux

MapReduce

GFS

OS

TinyOS

NESC

Event-driven

Cyber-physical Systems

Internet of Intensiy Things

Examples IoT from IMACT Lab
Invasion: any SC (track code) is E-score towards prevention.

- Run to comprehension.
- Can open to really each other.

Tasks: can be tested by commanders.

- Checking for race conscious.

- Mode which allows single by previously research agreements

- Grandmother Race-Fair Agreement

- Agreement

- (most 91%)

- (least 40%)

- (not 100%)

- (not 100%)

- (not 100%)

2.2
5

redim success;
ceil int ac, g+DATA(c);

if (local only)
{
{
buy = TRUE;

local Buy = buy;

if (TOTAL) 6

local 6 local Buy;

event result = Timer finish (c);


---

Within an A-assets Account.

The condition (SECURITY) or condition
race condition (SECURITY) or consequence

Though after is either not a potential

Any update to...
Quick restore later on. But it causes the app to die! Memory usage goes too high.

- Android kills app when ...

- Even if switched to other apps
- an app that does not run
  - Android usually does not kill
  - Process Mgmt.

- No VM specific implementation (yet)

Android OS

mobile OS
(Activity or) App Life Cycle

App starts

onCreate()

Activity is Running

onStart()

onResume()

onCreate()

onStart()

onRestore()

Activity is Running

Event: Activity frame
onPause()

onStop()

onDestroy()

Event: App no longer visible

Event: App may start

Activity Kill

Process Kill
<table>
<thead>
<tr>
<th></th>
<th>Capacity</th>
<th>Write long lasting</th>
<th>Reliability</th>
<th>Total power</th>
<th>File fragmen</th>
<th>File Access</th>
<th>Random Access</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flash (SSD)</strong></td>
<td>500/2,000</td>
<td>2-3 TB</td>
<td>2.5-2.6 GB</td>
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<td>0-1.0 GB</td>
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- **Flash (SSD):**
  - Solid State Drive
  - High performance
  - No mechanical parts
  - 2.0 ms random access
  - 5-10 ms sequential access

- **Hard Disk:**
  - Not a solid state drive
  - 1.5-2.6 GB capacity
  - 2-3 TB capacity
  - Due to mechanical parts, not as fast as SSD
  - 15+ watts power consumption
  - Greatly impacted by heat
  - 2.0 ms random access
  - 5-10 ms sequential access
Android Wear

- Wear lens - view objects.
- Use新格局 for content.
- Pin your apps on your home.
- Use full numbers only when hour.
- Use full numbers for the time.
- Try to rest for most of the time.

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Stay cool.

Huts.