

正在变化中计算模式

- PC计算模式实现的是"个人生产"
 - 利用固定的硬件设备和软件平台的来实现
- 移动计算模式实现的是"个人自由"
 - 为消费者量身定做的软件平台和硬件终端
 - 消费者任何时间、任何地点 都能够掌握自己的数据
- 多色多样的终端将不会融合 到仅一个平台
- 但唯有软件才能帮助消费者 在不同终端上有一致的用户
- 软件的分发,开源的软件和 Web 2.0 正在领导着互联设 备的开发方向



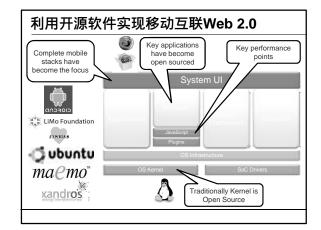
基于移动互联网的Web 2.0

- It is not squeezing into a smaller screen
 - It's not about a smaller laptop experience
 - It's not about just "browsing"
- Adding mobility to a truly personal device
 - Always on, always with you
 - Location and Context
 - "The Personal Internet" or "Social Location"
- Mashing of data & device information
 - Application get data from multiple sources
 - Ubiquitous data access from multiple devices
- Applications developed using web-based standards
 - HTML5, CSS, and JavaScript
 - Email client will indicate if addressee is available on IM



Palm® Pre[™]

如何在互联设备上实现网页浏览 Plug-in



JavaScript: 实现Web 2.0的编程语言

- JavaScript is the main programming language of Web 2.0
 - Originally designed for simple web page animation
 - Now the underlying technology of the programmable web
 - Much more JavaScript software now runs in the browser
 - Less round trips to the server- reduced page fetches
 - Faster web experience (and now even faster through JITs)
 - Integration with on-device peripherals through W3C standards

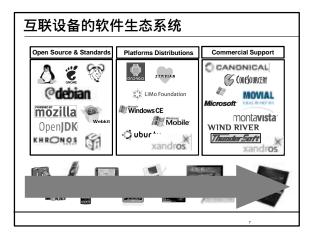
■ Example Rich Internet Applications in JavaScript Google GWT Open Laszlo







Google Documents Office Suite



基于ARM的Android平台

- ARM is a member of the Open Handset Alliance
 - Contributed OpenMaxDL for ARMv6 and NEON
- Android Platform
 - A complete platform for mobile product development
 - Large support available from the ARM Partnership
 - ARM is the leading platform for shipping products
- ARM support for Android
 - Engineering work to prove Android on latest ARM processors

CIOSCUD

- Identify code optimizations for ARM processors
- Contribute back to Open Handset Alliance
- Planned optimizations for 2009
 - NEON and VFP library optimizations (2D, Skia and math libraries)
 - Dalvick acceleration and JIT support
 - Webkit optimizations

Ubuntu的ARM套件

- Ubuntu 9.04 Now Available on ARM
 - https://edge.launchpad.net/ubuntu/jaunty
 - Supports Freescale i.MX51 based on the Cortex-A8 processor
- ARM Optimizations
 - ARMv5 (tuned to cortex-A8) with VFP
 - Linux kernel supports ARMv7 CPU features
 - Enable hard floating point support
- Desktop Edition Features
 - Gnome based desktop UI, internationalisation and accessibility
 - Open Office suite including support for word processing, presentations and spreadsheets
 - Support for web browsers (incl. Mozilla, Webkit etc.)
 - Large pool of applications



针对Web 2.0应用的软件优化

- Mozilla Firefox support for ARM
 - Available as part of Ubuntu 9.04
 - Current release supports ARM Javascript optimizations
 - ARM JIT support becomes final in Firefox 3.5
 - Future releases are targeting Open GLES 2.0
 - Reference implementations for ARM also on Linux.onarm.com
 - Mozilla Fennec browser interface for mobile devices later this year
- Open JDK
 - ARM optimized VM available as part of Ubuntu 9.04
 - Optimizing VM using new template interpreter for browser Java Applets for September, 2009

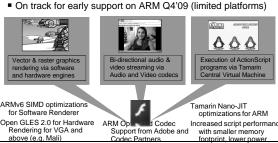




Firefox Open DK

基于ARM优化的Adobe Flash 10 播放器

- ARM is working with Adobe to optimize Flash Player for ARM
- ARM optimizations will be made available through Adobe



Samsung 9系列电视和Nokia N97手机





- Widget user experience
 - Highlights the information you care about
 - You no longer "browse" the information the information is there when you need it
 - Automatic updating of widgets

小结

■ 开源嵌入式软件是下一代差异化计算平台的理想选择













- 软件的创新: 利用Web技术为消费者在不同的互联终端上享受 一致的用户体念
 - 真正地实现任何时间、如何地点、如何终端的"普适计算"
 - 未来的Web2.0 将远远超过今天的网页浏览
- 开源软件是一个富有生命力的软件生态系统和社区
 - 大量的基于ARM平台的软件创新为消费者提供所喜欢的体念
 - 越来越多的公司正在提供商业化的技术支持