Debian and the Openmoko FreeRunner: one year later

Luca Capello

Debian freesmartphone.org Team

DebConf9, Lower Talkroom

Outline

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- Harald Welte (*gpl-violations.org*)
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Inc. ← Openmoko → *community*

Outline

GTA01: Neo 1973

480x640 touchscreen
128MB RAM, 64MB flash
Samsung SoC (266MHz, ARMv4)
reader for microSDHC cards
tri-band GSM/GPRS/2.5G
GPS (closed binary-only driver, gllin)
compatible with Nokia BL-5C/6C batteries
charged through USB 1.1 Mini-B plug

GTA02: Neo FreeRunner

same case as the 1973
128MB RAM, 256MB flash
new Samsung SoC (400MHz)
SMedia 3362 2D/3D chipset (NDA)
new GPS chipset (NMEA standard)
Atheros AR6K 802.11 b/g WiFi
two 3D accelerometers
USB 1.1 Host mode (500mA)

GTA0x: Coming Soon (2009?)

GTA03

new case design
new battery
new GSM chipset
(quad-band 2.75G/EDGE)
new Samsung SoC
(533/667MHz, include 3D)
new GPS chipset
camera

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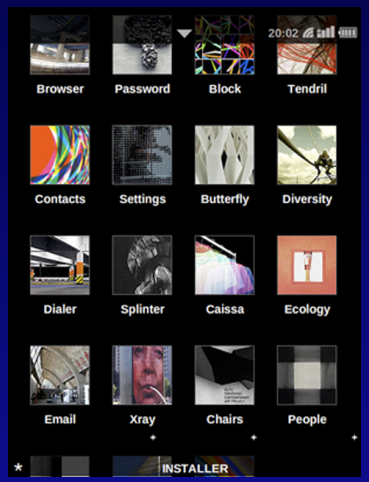
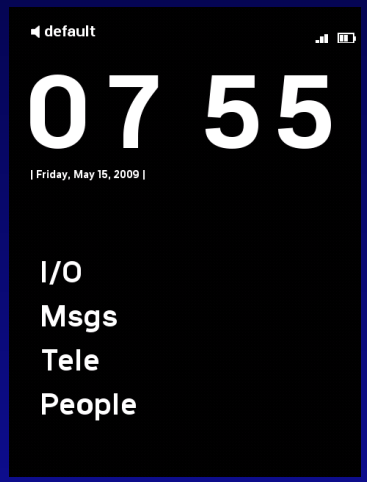
GTA04

3G and USB 2.0
more advanced SoC
(still Samsung)..
OpenGL ES support

Outline

Pick Up Your Favourite!






FREESMARTPHONE.ORG ARCHITECTURE
Enlightenment
Qtopia
Gtk+
X11
DBus Interfaces
Usage
Phone
Preferences
Time
PIM
Device
GSM
GPS
Networking
Events
Misc. Interfaces
gstreamer
alsa
ppp
fso-abyss
(gsm 0710)
bluez 4
connman
Linux Kernel 2.6.x

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Moving Away From the Smartphone Business

2009/04 GTA03 abandoned
an internal Project B is started

2009/06 company restructured
the community can use:

- trademark and brand
- infrastructure (wiki, Git, lists)
- documentation

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- Illume/E17 as standard Window Manager
- Paroli, a new phone application
- OpenWRT entered the game
- gta02-core: GTA02 without “bad” stuff
- freesmartphone.org moved to SHR
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First Official Meeting

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- contacts:
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  - (freesmartphone.org) upstream mailing lists
    http://www.freesmartphone.org/index.php/Infrastructure
  - (Freenode) IRC channels
    #openmoko-cdevel and *#openmoko-debian*
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install.sh, One Year Old

why d-i: can it be started from the FreeRunner?
too much work, bootstrapping is faster

where a graphical Debian does not fit on the 256MB flash
microSD card must be used

how U-Boot: it can not read big partitions
two partitions: 8MB /boot and the rest for /

kernel Openmoko or Debian?
Openmoko patches not yet integrated in the mainline kernel, thus the Openmoko kernel must be used

boot U-Boot: by default it expects the first partition to be vfat, thus modify the U-Boot environment

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install.sh: Details

- runs from any official Openmoko distribution
- uses official Debian cdebootstrap
- highly configurable:
  HOSTNAME SD_DEVICE SD_PART1_FS
  INST_DIR INST_MIRROR APT_RECOMMENDS
  DASH_BINSH FSO_MIRROR FSO_DEVICE
  QI QI_VERBOSE_BOOT SINGLE_PART
- divided into self-contained stages:
  all testing time partition format
  mount debian apt fso configuration
  kernel unmount *uboot (risky)*

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Result

Matchbox components
- window manager
- virtual keyboard

Openmoko-panel-plugin
- shows powerstates
- enables/disables devices

FSO Zhone
- sends/receives calls
- manages SIM contacts
- sends/receives SMSs
- checks GSM status
- shows GPS position

Upstream and Illume

- disk hungry
- upstream choice
- more eye-candy stuff
- better keyboard support
- full Desktop Environment

Outline

Where We Are

- every core package in main (Zhone in NEW)
- 2.6.29 kernel built from upstream Openmoko
- X.Org xf86-video-glamo video driver
- missing pieces in fso-frameword: PIM and WiFi
- missing a fully functional phone+PIM GUI
- Vala migration (faster startup and smaller memory footprint)

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- fixing bugs
- Debian Policy-compliant and lintian clean
  manpages, non-embedded fonts, better location into /
- kernel
  - upstream Linux 2.6.31 will have basic support,
    (unfortunately) not booting GTA02
  - move (finally) to the Debian kernel infrastrucuture
  - provide general package for all *Samsung S3C devices*
- new software
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- how to boot it:
  - moving uImage.bin to kernel+initrd
  - no U-Boot modifications required
- no physical keyboard:
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- working on going:
  first basic support, but the kernel is the main problem
- which Desktop Environment should be the default?

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  network-console with preseeding until SSH
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  first basic support, but the kernel is the main problem
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  - in line with Debian development
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Outline

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- more devices/software (OpenEZX, HTC-Linux, etc.)

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Aknowledgements

Albin Tonnerre - Arne Anka
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Philipp Kern - Rolando Mas
Sebastian Ohl - Sebastian Reichel
Steffen Moeller - Timo Jyrinki
Timo Juhani Lindfors - Wen-Yen Chuang

zack for DPL!

well... maybe next year :-)

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http://people.debian.org/~gismo/talks/

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