

maemo

O que é Maemo?

- Plataforma de desenvolvimento para Internet Tablets
 - Internet Tablet - Product category for Internet optimized mobile devices with touchscreen.
- 770, N800, N810
- N810 WiMax



Hardware

maemo

an 800x480 pixel, 225 pixels-per-inch (PPI) wide-screen touch screen display with 16-bits per pixel color depth

Hardware buttons with a layout optimized for web surfing

Virtual Keyboard

Small
slide-out
keyboard
(& VKB)

Wi-Fi (802.11b/g)

external GPS via Bluetooth

Integrated
GPS
(external
also
supported)

a 1500 mAh battery

3.5 mm stereo audio out socket (works also as mic input on N800/N810)

built-in VGA resolution webcam

a USB 2.0 port (in target mode by default)

64 MiB of RAM

128 MiB of RAM

128 MiB flash memory with JFFS2 file system

256 MiB flash memory with JFFS2 file system

an RS-MMC memory card slot

Two memory card slots, SD, MicroSD, MiniSD, MMC, and RS-MMC (some types with extender).

One
memory
card slot,
compatible
with
MiniSD and
MicroSD
(with
extender).

Bluetooth 1.2

Bluetooth 2.0

TI OMAP1720 multi-core processor with maximum clock frequency of 220 MHz which contains:

- ◆ **TMS320C55x DSP logic** (backward compatible with the 54x-series)
- ◆ **ARM926TEJ core** ("ARMv5") with an MMU

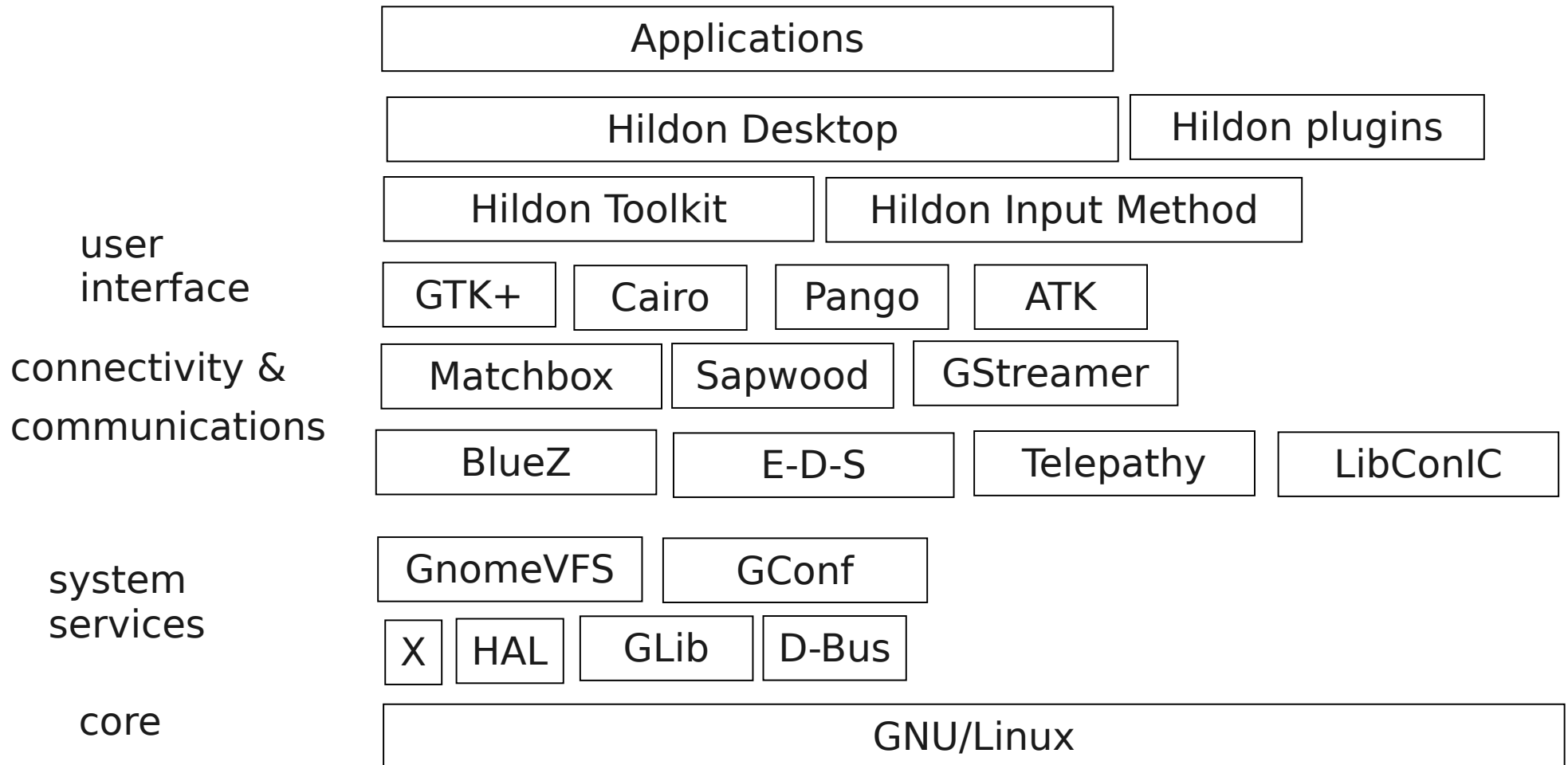
TI OMAP 2420 multi-core processor with maximum clock frequency of 400 MHz which contains:

- ◆ **TMS320C55x DSP logic** (backward compatible with the 54x-series)
- ◆ **ARM1136 core** ("ARMv6") with an MMU (backward compatible with ARM926)

A interface



Organização Lógica



Mais especificamente,

Maemo Architecture						
Fonts		Sounds			Icons	
Connectivity		System UI	Search	Text Input		MIME Types
Home Applets		Control Panel		Task Navigator	Status Bar	
Backup		Installer	Alarm	Help	Launcher	
XML	E-D-S		Telepathy		GConf	
GStreamer		GnomeVFS			GSF	
Sapwood		Hildon Widgets		Hildon File UI	HTML Widget	
GTK+						
GDK				GdkPixbuf		
Pango		Cairo			Atk	
GLib				GObject		
Samba	GPS	Obex	ConIC	UPnP	JPEG PNG TIFF SVG	Matchbox
D-BUS		HAL	SQLite	curl HTTP	Clipboard	
SSL	System SW		Cert. mgnt	libosso	X	
Libstd C++		Compression	dpkg	apt	Freetype	Fontconfig
Sysvinit	Base Files	Busybox	GNU C Library	Core Libs	Core Utils	Core Daemons
Video4Linux		Power Management		ALSA	BlueZ	
Bootloader	Linux kernel			InitFS		

Diferenças para outros S.O. móveis

- componentes open source já disponíveis para desktop
- aplicações não precisam ser assinadas
- SDK open source
- ITOS também contém partes “fechadas”

Maemo SDK

- Scratchbox, chroot + scripts de controle
- Rootstrap contém as ferramentas específicas para o aparelho
- Dois targets:
 - x86 para desenvolvimento
 - ARMEL, emulado via QEMU, para testes e empacotamento

Mamona

- Alternativa à SDK do Maemo
- Utiliza OpenEmbedded, e não Scratchbox
- Apenas componentes livres
- Atualmente usa Enlightenment para interface gráfica
- Ainda em desenvolvimento, mas já funcional

Ubuntu Mobile

- Não é Maemo
- Mas usa a mesma interface gráfica (Hildon)
- Para plataformas x86, e não ARM
 - Mas as especificações são bem próximas

Android?

