

REAL TIME

NETWORKED

OMAP<sup>™</sup>  
TEXAS INSTRUMENTS TECHNOLOGY



# OMAP Apps Development Environment

<http://www.microunit.com.cn>

CONNECTED

REAL WORLD SIGNAL PROCESSING<sup>™</sup>

 TEXAS INSTRUMENTS

## ● **MontaVista Embedded Linux**

- ▶ **Industrial Standard GNU Toolchain**
- ▶ **Target Configuration Tool**
- ▶ **KDevelop Integrated Development Environment**
- ▶ **Library Optimization Tool**
- ▶ **Hardware Debug Tool Support**

## ● **TROLLTECH Qt/E, Qtopia**

- ▶ **Qt Designer**
- ▶ **Frame Buffer Simulator**

The screenshot displays a Linux desktop environment. On the left side of the desktop, there are three icons: a house icon labeled 'tim 的目錄', a clock icon labeled '由此開始', and a trash can icon labeled '垃圾桶'. The main area contains two windows. The first window is titled 'Virtual framebuffer 240x320 32' and shows an 'Applications' menu with various icons such as Calculator, Calendar, City Time, Clock, Contacts, EMail, File Manager, Help Browser, Image Viewer, Media Player, System Info, and Terminal. The second window is a terminal window titled 'tim@pica:~/qtopia' with a menu bar containing '檔案', '編輯', '設定', and '說明'. The terminal output shows system status information and the loading of Qt plugins. The system tray at the bottom includes icons for network, volume, and power, along with the text 'Virtual framebuffer 240x320 32bpp Display :0' and the user 'tim@pica:~/qtopia'. The system clock shows '03:12 下午' and '週五 8月 02'.

```
tim@pica:~/qtopia
檔案 編輯 設定 說明
SlowdownScale 0
PowerStatus Online
ActiveAtOnline No
FixSpeed No
MaxCPUSpeed 10
MinCPUSpeed 0
SpeedupScale 9
SlowdownScale 0
tr for sysapplet: /home/tim/qtopia//i18n/zh_TW.Big5/libbatteryapplet.qm
tr for sysapplet: /home/tim/qtopia//i18n/zh_TW.Big5/libcardmonapplet.qm
tr for sysapplet: /home/tim/qtopia//i18n/zh_TW.Big5/libclockapplet.qm
tr for sysapplet: /home/tim/qtopia//i18n/zh_TW.Big5/libmountmonapplet.qm
tr for sysapplet: /home/tim/qtopia//i18n/zh_TW.Big5/libnetmonapplet.qm
tr for sysapplet: /home/tim/qtopia//i18n/zh_TW.Big5/libvolumeapplet.qm
Categories::labels didn't find app Document View
trying lib /home/tim/qtopia//plugins/obex/libqobex.so
Obex constructor
qobex::queryInterface
qobex::queryInterface
qobex::queryInterface
found obex lib
tr for obex: /home/tim/qtopia//i18n/zh_TW.Big5/libqobex.qm
QPE/Network: available(QStringList)
```

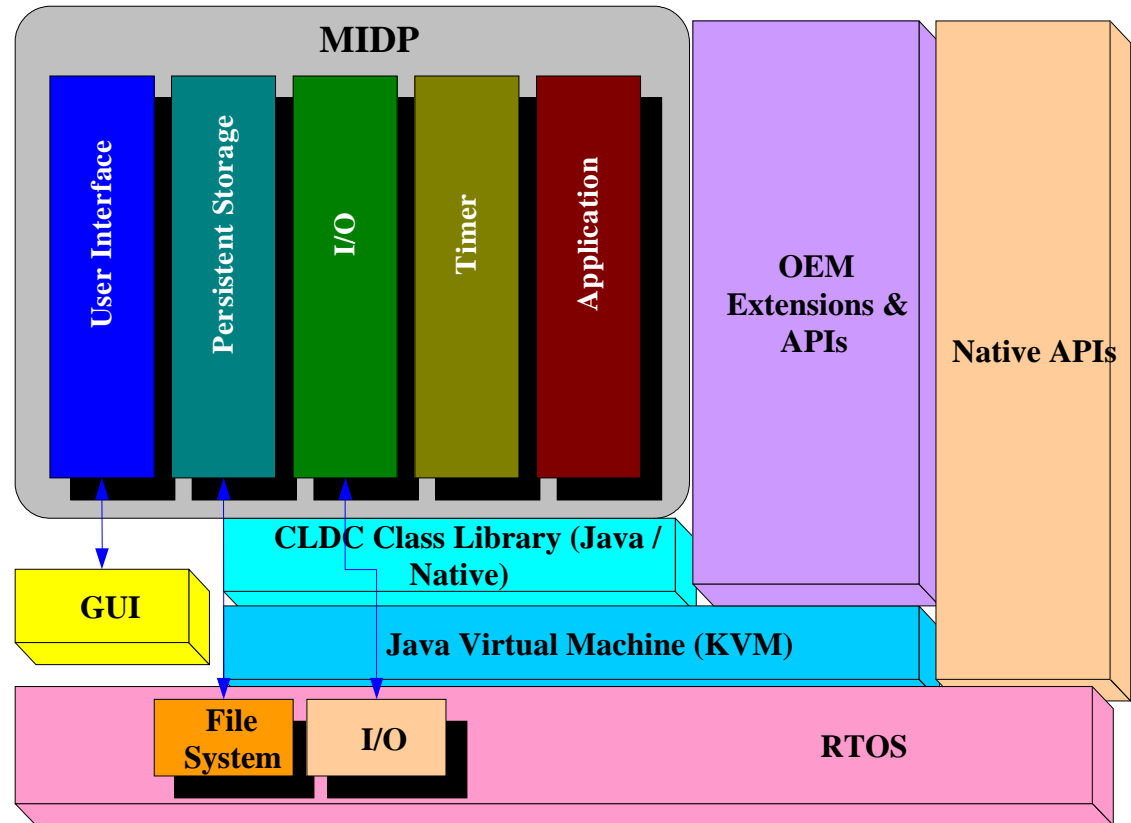
## Opera



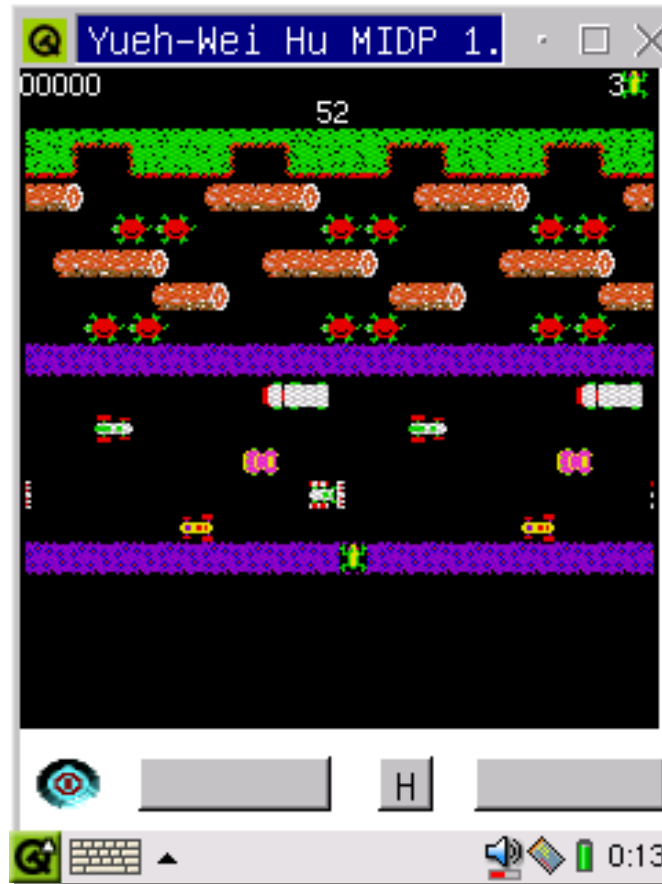
## ACCESS NetFront



- Standard Compliant
- Windows Manager Integration
- High Performance On Java Phone



## MIDP



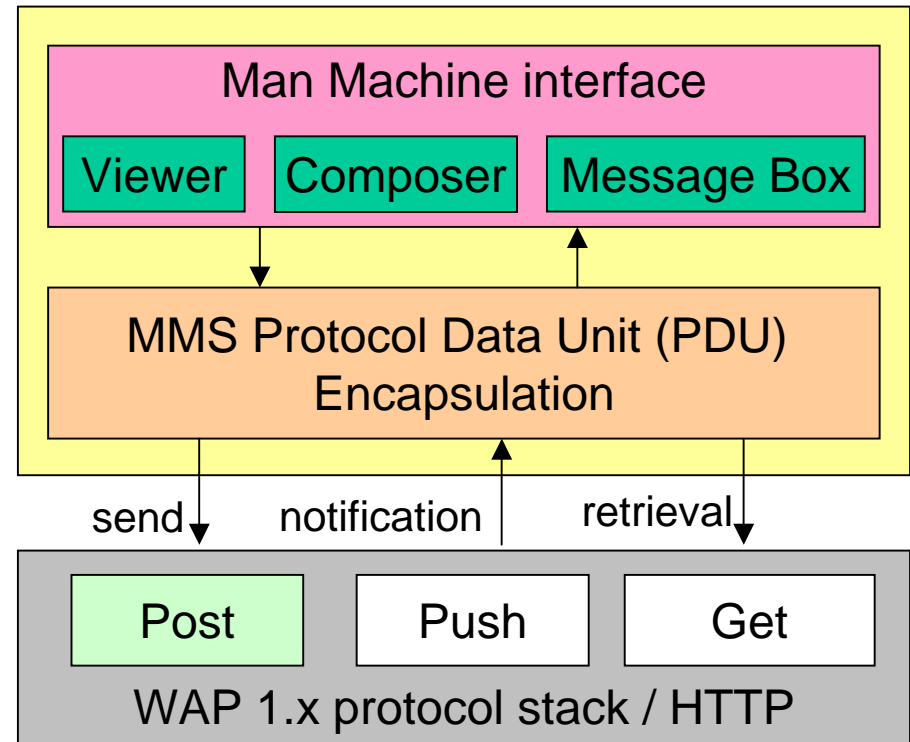
## ● MMS

- ▶ Transmit/Receive/Edit/Browsing

## ● System Components

- ▶ MMI
- ▶ MMS PDU Encapsulation
- ▶ WAP 1.x/HTTP

## ● MMS over WAP protocol stack



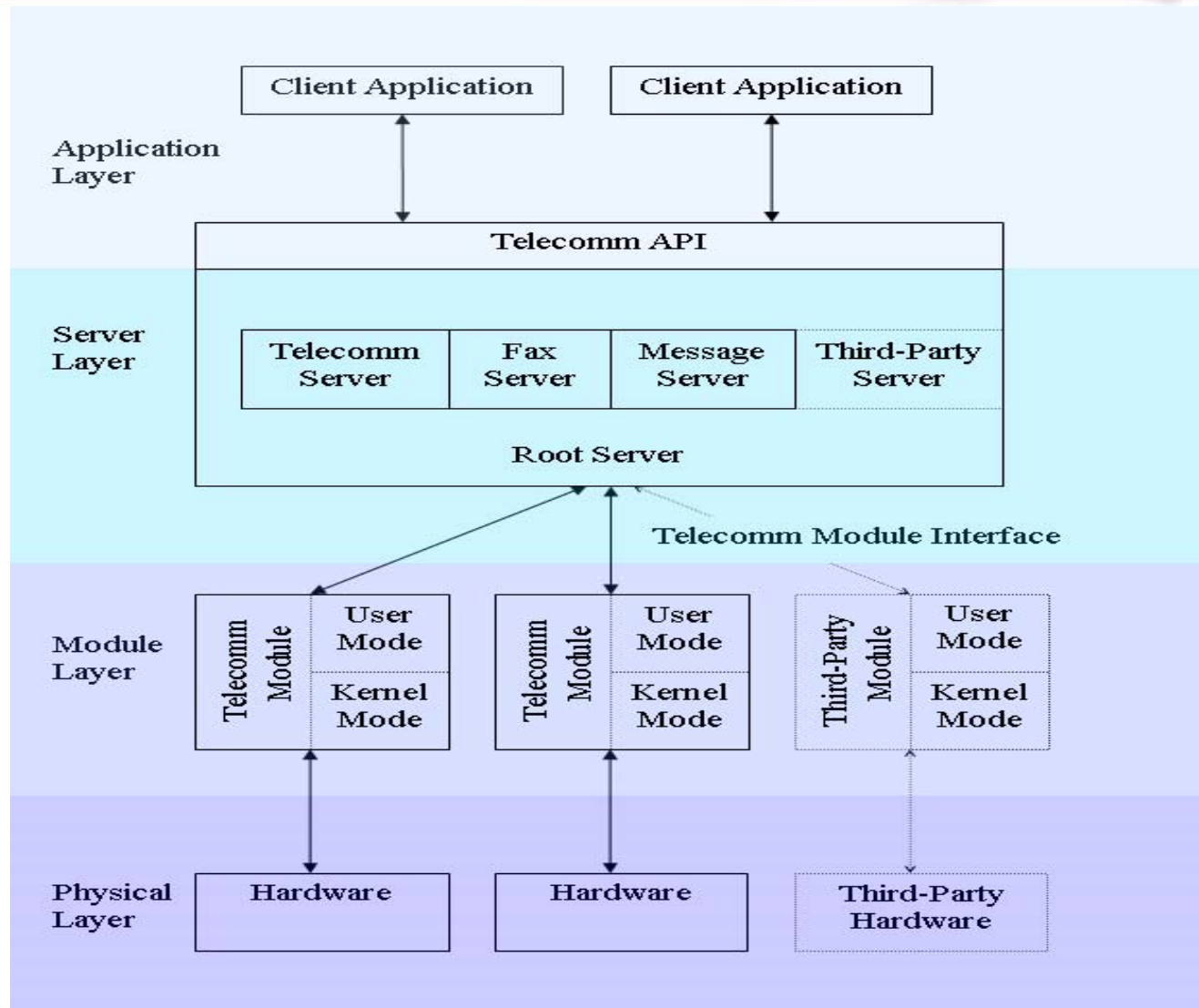
- **Universal Input Method (Chinese , Korean and Japanese ) for Qtopia Environment**
- **The QIM (Qtopia Input Method ) is developed for enhanced, language-independent input method system for Trolltech Qtopia Environment**

## ● GPRS/GSM Phone Solution For Trolitech Qtopia

### ▶ Telecomm Module Interface

- ▶ Add voice and data communication function, enable user to access internet anywhere , make and receive voice call, send and receive short message on exist GSM network

# Telecomm Module Interface



- **$P_{\text{Dynamic}} = C * V^2 * \text{Frequency}$**

(Power consumption is proportional to frequency)

- **System Performance Monitor monitor CPU operation frequency and system loading**

- ▶ **Increase CPU operation frequency if System need more computing power**
- ▶ **Reduce CPU operation frequency if System need less computing power**



Key in data

CPU frequency raised when PIM application is activated

- **Microunit provide complete design service on OMAP include H/W and Linux S/W support**
- **Contact Microunit for OMAP support**
  - ▶ **Email – [sanmao1644@sina.com](mailto:sanmao1644@sina.com)**
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